

Department of Environmental Conservation

PRE-DESIGN INVESTIGATION REPORT

WORK ASSIGNMENT D009803-24.1

TONAWANDA FORGE - OPERABLE UNIT NO. 1
SITE NO. 915274
TOWN OF TONAWANDA, ERIE COUNTY, NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:
AECOM USA, Inc.
One John James Audubon Parkway
Suite 210
Amherst, New York 14228

FINAL

November 2022

TONAWANDA FORGE SITE
OPERABLE UNIT 1
SITE NO. 915274
TOWN OF TONAWANDA
ERIE COUNTY, NEW YORK

PRE-DESIGN INVESTIGATION REPORT
WORK ASSIGNMENT D009803-24.1

Prepared for

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
625 BROADWAY, 12th FLOOR
ALBANY, NEW YORK 12233-7017

Prepared by

AECOM USA, INC.
ONE JOHN JAMES AUDUBON PARKWAY
SUITE 210
BUFFALO, NY 14228

NOVEMBER 2022

TABLE OF CONTENTS

Page No.

1 INTRODUCTION 1-1

1.1 Site History and Background 1-1
1.2 Site Hydrogeologic Conditions 1-4
1.3 Purpose and Scope of Report 1-5
1.4 Previous Site Work and Investigations 1-5
1.4.1 Blasland, Bouck & Lee, Inc. – December 1998 1-5
1.4.2 American Axle & Manufacturing – April 15, 1999 1-6
1.4.3 Blasland, Bouck, & Lee, Inc. – June 1999 1-6
1.4.4 Conestoga-Rovers & Associates – November 2000 1-7
1.4.5 Blasland, Bouck, & Lee, Inc. – October 2001 1-7
1.4.6 Blasland, Bouck, & Lee, Inc. – November 2004 1-8
1.4.7 Conestoga-Rovers & Associates – August 2003 1-9
1.4.8 Groundwater & Environmental Services, Inc. – October 2012 1-10
1.4.9 Remedial Investigation - URS Corporation – October 2012-2018 1-11
1.4.9.1 Summary of RI Analytical Results 1-11
1.4.9.1.1 Asbestos Containing Materials Impacts 1-12
1.4.9.1.2 Surface Cover Impacts 1-12
1.4.9.1.3 Soil Impacts 1-12
1.4.9.1.4 Groundwater Impacts 1-12
1.4.9.1.5 Light Non-Aqueous Phase Liquid Impacts 1-13
1.4.9.1.6 Sewer System Impacts 1-13
1.4.9.1.7 Surface Water Impacts 1-14
1.4.9.1.8 Contaminant Fate and Transport 1-14
1.4.10 Interim Remedial Measures – January 2016 to May 2019 1-15
1.5 Overall Nature and Extent of Contamination Summary 1-15
1.5.1 Waste/Source Areas 1-15
1.5.1.1 Waste/Source Areas – Asbestos 1-16
1.5.1.2 Waste/Source Areas – LNAPL 1-16
1.5.1.3 Waste/Source Areas – Impervious Surface Materials 1-16
1.5.1.4 Waste/Source Areas – Sewer Sediments 1-16
1.5.2 Soil 1-17
1.5.3 Surface Water 1-17
1.6 Summary of the Selected Remedy: OU1 – On-Site Soil, Sewer Sediment and Surface Water Contamination 1-17

2 PRE-DESIGN INVESTIGATION 2-1

2.1 Asbestos Sampling 2-2
2.2 Storm Sewer Water and Sewer Sediment Sampling 2-2
2.3 Surface and Subsurface Soil Contamination Delineation 2-3
2.4 Surface Cover Contamination Delineation 2-4

2.5 Test Pits 2-5
2.6 Surface Water 2-7
2.7 Groundwater 2-7
2.8 Data Deliverables and Data Validation 2-7
2.9 Community Air Monitoring Program 2-7
2.10 Investigation-Derived Waste Management 2-8
2.11 Engineering Survey 2-8

3 PRE-DESIGN INVESTIGATION RESULTS 3-1
3.1 Standards, Criteria and Guidance Values 3-1
3.1.1 Asbestos 3-1
3.1.2 Impervious Surfaces (Concrete, Brick, Asphalt, and Wood Core) 3-1
3.1.3 Soil 3-1
3.1.4 Sewer Sediments, Sewer Water and LNAPL 3-1
3.1.5 Surface Water 3-2
3.1.6 Groundwater 3-2
3.2 Analytical Results 3-2
3.2.1 Asbestos Sampling Results 3-2
3.2.2 Impervious Surfaces (Concrete, Brick, Asphalt, and Wood Core) 3-3
3.2.3 Surface Soil Sampling Results 3-3
3.2.4 Subsurface Soil Sampling Results 3-4
3.2.5 Sewer Sediments, Sewer Water, and LNAPL Sampling Results 3-4
3.2.6 Surface Water Sampling Results 3-6
3.2.7 Groundwater Sampling Results 3-6
3.2.8 Nearby Off-Site Soil Sampling Results 3-7

4 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS 4-1
4.1 Summary and Conclusions 4-1
4.1.1 Summary of Analytical Results 4-2
4.1.1.1 Asbestos 4-2
4.1.1.2 Impervious Surfaces (Concrete, Brick, Asphalt, and Wood Core) 4-2
4.1.1.3 Surface Soil 4-2
4.1.1.4 Subsurface Soil 4-2
4.1.1.5 Sewer Sediments, Sewer Water, and LNAPL 4-3
4.2 Recommendations 4-4

5 REFERENCES 5-1

TABLES

Table 1-1	Historical Soil Results Summary
Table 1-2	Historical Surface Water Results Summary
Table 2-1	2020 Soil Sampling Rationale
Table 2-2	Phase II Soil Sampling Rationale
Table 2-3	Sewer Water, Sewer Sediment, and LNAPL Sampling Rationale
Table 2-4	Soil Boring Summary
Table 2-5A	Sample Analytical Program
Table 2-5B	Phase II Analytical Program
Table 2-6	Groundwater Elevation Measurements, January 2022
Table 3-1	Impervious Surface Sample Summary
Table 3-2A	Surface Soil Sample Summary (PCBs)
Table 3-2B	Surface Soil Sample Summary (SVOCs)
Table 3-2C	Surface Soil Sample Summary (VOCs and Metals)
Table 3-3A	Subsurface Soil Sample Summary (PCBs)
Table 3-3B	Subsurface Soil Sample Summary (SVOCs)
Table 3-3C	Subsurface Soil Sample Summary (VOCs, Metals and Misc.)
Table 3-4	Sewer Sediment Sample Summary
Table 3-5	Storm Sewer/Wastewater Sample Summary
Table 3-6	LNAPL Sample Summary
Table 3-7	Surface Water Sample Summary
Table 3-8	Groundwater Sample Summary
Table 3-9	Comparison of PCB Homolog Effective Solubility to Observed Groundwater Concentrations
Table 3-10	Off-Site Analytical Results

FIGURES

Figure 1-1	Site Location
Figure 1-2	Historical Site Plan
Figure 1-3A	Non-Aqueous Phase Liquid Historic Analytical Results
Figure 1-3B	Concrete and Asphalt Chip, Brick, and Wipe Samples Historic PCB Results
Figure 1-3C	Manhole Sewer Sediment Historic Analytical Results
Figure 1-4	Historic Sewer Qualitative Data
Figure 1-5	Surface Water Control
Figure 2-1	Soil & Test Pit Sampling Locations
Figure 2-2	Sewer Water, Sediment, Surface Water, & LNAPL Sample Locations
Figure 2-3	Monitoring Well Locations
Figure 2-4	Shallow Groundwater Elevation, January 2022
Figure 2-5	Intermediate Groundwater Elevation, January 2022
Figure 3-1	Impervious Surface Total PCBs

Figure 3-2 Proposed Excavation Areas
Figure 3-3 Surface Soil Exceedances
Figure 3-4 Subsurface Soil Exceedances
Figure 3-5 Total PCBs – 0’-2’ BGS
Figure 3-6 Total PCBs – 2’-4’ BGS
Figure 3-7 Total PCBs – 4’-6’ BGS
Figure 3-8 Total PCBs – 6’-8’ BGS
Figure 3-9 Total PCBs – 8’-10’ BGS
Figure 3-10 Total PCBs – 10’-12’ BGS
Figure 3-11 Total PCBs – 12’-28’ BGS
Figure 3-12 Total SVOCs – 0’-2’ BGS
Figure 3-13 Total SVOCs – 2’-4’ BGS
Figure 3-14 Total SVOCs – 4’-6’ BGS
Figure 3-15 Total SVOCs – 6’-8’ BGS
Figure 3-16 Total SVOCs – 8’-10’ BGS
Figure 3-17 Total SVOCs – 10’-12’ BGS
Figure 3-18 Total SVOCs – 12’-28’ BGS
Figure 3-19 2020 Sewer Qualitative Data
Figure 3-20 Total PCBs – Sewer Sediment
Figure 3-21 Total SVOCs – Sewer Sediment
Figure 3-22 Sewer/Surface Water Exceedances
Figure 3-23 Total PCBs – Sewer Water
Figure 3-24 Total SVOCs - Sewer Water
Figure 3-25 Non-Aqueous Phase Liquid Analytical Results
Figure 3-26 Total PCBs – Surface Water
Figure 3-27 Total SVOCs - Surface Water
Figure 3-28 Total PCBs in Unfiltered Groundwater
Figure 3-29 Dissolved Total PCBs in Groundwater
Figure 3-30 Total PCB Homologs in Groundwater
Figure 3-31 Offsite and Perimeter Adjacent Total PCBs
Figure 3-32 Offsite and Perimeter Adjacent Exceedances

PLATES

Plate 1 Sewer System
Plate 2 RI Sampling Locations

APPENDICES

Appendix A URS 2018 Remedial Investigation Report
Appendix B Pre-Design Investigation Work Plan
Appendix C Field Notes
Appendix D Asbestos Credentials
Appendix E Sewer Sampling Logs and Inspection Forms
Appendix F Surface Soil and Boring Logs
Appendix G Chip Sample Log
Appendix H Test Pit Logs
Appendix I Purge Logs
Appendix J Data Usability Summary Reports
Appendix K CAMP Notes/Data
Appendix L Investigation Derives Waste Documents
Appendix M Asbestos Analytical Results.

LIST OF ABBREVIATIONS/ACRONYMS

ACM	asbestos containing material
AECOM	AECOM USA, Inc.
AHERA	Asbestos Hazard Emergency Response Act
AAM	American Axle & Manufacturing
AOC	Area of Concern
AST	aboveground storage tank
BB&L	Blasland, Bouck & Lee, Inc.
bgs	below ground surface
C&D	construction and demolition
CB	catch basin
CFR	Code of Federal Regulations
cm	centimeters
cm^2	square centimeters
cm/sec	centimeters per second
CRA	Conestoga-Rovers & Associates
cf	cubic feet
cy	cubic yards
DER	Division of Environmental Remediation
DO	dissolved oxygen
Drawings	remedial construction contract drawings
DUSR	Data Usability Summary Report
ECM	erosion control measure
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
ESCOs	ecological resources SCOs
ESG	The Environmental Services Group (NY), Inc.
ELAP	Environmental Laboratory Approval Program
FS	Feasibility Study
ft	feet/foot
ft/ft	foot per foot
GES	Groundwater & Environmental Services, Inc.
g/kg	grams per kilogram
GM	General Motors
GM ER & IES	GM Environmental Remediation and International Environmental Support
gpm	gallons per minute
GPR	ground penetrating radar
IDW	investigation-derived waste
IRM	Interim Remedial Measure
IW	industrial waste
IWTP	Industrial Waste Treatment Plant
Lewis	Lewis Brothers, LLC
LNAPL	light non aqueous phase liquid
mg/kg	milligrams per kilograms
Misc.	miscellaneous
µg/L	micrograms per liter
mg/L	milligrams per liter
MH	manhole
MS4	Municipal Separate Storm Sewer System
ND	non-detect
NYCRR	New York Codes, Rules and Regulations,
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health

NYSDOL	New York State Department of Labor
OSHA	Occupational Safety and Health Administration
OD	outside diameter
OM&M	operation, maintenance, and monitoring
ORP	oxidation reduction potential
OU	operable unit
OU1	operable unit number 1
PCB	polychlorinated biphenyl
PDI	Pre-Design Investigation
PDIR	Pre-Design Investigation Report
PDIWP	Pre-Design Investigation Work Plan
PLM	polarized light microcopy
POTW	publicly owned treatment works
ppb	part(s) per billion
ppm	part(s) per million
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
ROD	Record of Decision
ROI	radius of influence
ROW	rights-of-way
SACM	Suspect Asbestos Containing Materials
SCG	standards, criteria, and guidance value)
SCO	soil cleanup objective
SPDES	State Pollution Discharge Elimination System
sq ft	square feet
SSAs	storm sewer areas
SVOC	semi-volatile organic compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristics Leaching Procedure
TEM	transmission electron microscopy
TOGS	Technical and Operational Guidance Series
TSCA	Toxic Substances Control Act
TSS	total suspended solids
URS	URS Corporation (acquired by AECOM)
UST	underground storage tank
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1 INTRODUCTION

This Pre-Design Investigation Report (PDIR) presents the data generated from the Phase 1 and Phase 2 Pre-Design Investigation (PDI) activities conducted in November - December 2020 and January - February 2022 at Operable Unit (OU) Number 1 (OU1) of the Tonawanda Forge Site (Site No. 915274) located in the Town of Tonawanda, New York (Figure 1-1). This document describes activities performed during this PDI, identifies deviations from the approved PDI Work Plan (PDIWP), compares the PDI data against applicable criteria, and recommends further investigation activities to address data gaps identified from this investigation.

This PDIR incorporates and describes the findings of previous investigations completed to date for all environmental media that were evaluated. The data assessment from historical information and environmental samples collected from various environmental media were evaluated to characterize the nature and extent of contamination and to determine the environmental media and areas that require remedial action in accordance with the Record of Decision (ROD). Data from this PDI, previous remedial investigations (RI) and subsequent investigation will be used to modify the design for the remedial alternative selected for remediation of OU1 in accordance with the New York State Department of Environmental Conservation (NYSDEC) ROD dated March 2020.

1.1 Site History and Background

The Site is located in Tonawanda, Erie County, New York (Figure 1-1). The Site is listed as a Class 2 Inactive Hazardous Waste Site (Site No. 915274) in the New York State Registry of Hazardous Waste Sites. The 34.8-acre Site is zoned as General Industrial District and is approximately 2,300 feet (ft) southeast of the intersection of Kenmore Avenue and Sheridan Drive. The Site contains 2 parcels. Parcel 1 is 33.2 acres. Parcel 2 (Area of Concern [AOC]-7 and AOC-8) is 1.6 acres. The Site is relatively flat and primarily covered with asphalt, concrete and former building foundations and five buildings. The eastern portion of the Site, identified as AOC 1, is a grass covered landfill with an elevation approximately 6-ft above the surrounding grade. AOC-1 is also referred to as the “Front Forty” in some historical documents. The Site is surrounded on the north, west, and south sides by industrial facilities. Kenmore Avenue borders the Site on the east. The reasonably anticipated future land use is industrial.

The Site has areas of standing water following precipitation and snow melt. As part of previous work activities, a number of manholes (MH), catch basins (CB), and some sewer line sections have been plugged at several locations across the Site to inhibit the flow of contamination off-site. As a result, water ponds in several areas following rain events or snow melt.

The property was originally part of the General Motors (GM) -Tonawanda Engine Plant (GM-Tonawanda) facility that borders the Site to the north, west, and south. The property originally consisted of four separate on-site buildings: 1) Forge building; 2) Heat Treating building; 3) Maintenance/Die Shop building; and 4) Office building. Over time, the Forge building, Heat Treating building, and Maintenance/Die Shop building were combined under a common roof into one building where the manufacturing operations were performed. Over the operational history of the facility, additional buildings were added at the Site, including an Oil Pump House (aka: Environmental Building), Cafeteria/Locker room, Air Compressor building, Maintenance Storage Facility, and Net Shape Gear Warehouse. A historical site plan is shown on Figure 1-2.

In 1994, GM sold the Site to American Axle & Manufacturing (AAM) who performed the forging and manufacturing of automotive parts at the Site. In 2008, AAM sold the Site to the current owner, Lewis Brothers, LLC (Lewis), of Richmond, Virginia. Upon sale of the Site, Lewis began the demolition of the Site buildings that formerly housed the manufacturing operations, starting with the removal of the interior equipment and ending with the removal of the building superstructures.

Upon Lewis' refusal to address petroleum contamination at the Site, in violation of a stipulation agreement with the NYSDEC, the NYSDEC proceeded with remediation under Spill Site Number 0944809. During demolition, there was a release of polychlorinated biphenyls (PCBs) from two transformers on December 19, 2011. Lewis' refusal to address the spill led the NYSDEC to initiate clean-up procedures under Spill Site Number 1112690.

Currently, the only structures remaining on the Site are the Office building, Cafeteria/Locker room, Environmental Building, Net Shape Gear Warehouse, and the small guard shack in the parking lot. The majority of the western portion of the Site consists of former building floor slabs, parking lots, and driveways. AOC-1, a grassed area in the eastern part of the Site, is a former fill and disposal area that was re-graded and capped.

Based upon a review of historical documents, drawings, and previous investigations, 16 potential AOCs were identified at the Site (Figures 1-3A to 1-3C). The sewer network (Plate 1), which includes storm water, sanitary, and industrial waste (IW) lines and ducting, and AOCs were also investigated as part of previous investigations and further evaluated as part of the PDI. The results of all investigations completed to date were evaluated and incorporated into this PDIR. The specific details of the previous investigations are included in the respective previous investigation reports which are attached in Appendix A. Each AOC and the sewer network were investigated to determine if historical activities and demolition activities by the property owner, have adversely impacted the environment. A description for each AOC is provided below.

AOC-1: Erosion Control Measures Area

AOC-1 is located between Kenmore Avenue and the main parking lot. The area originally contained railroad spurs. Aerial photographs indicate that dumping/grading activity appears to have been performed in the vicinity of the railroad spurs. Between 1998 and 2000, GM installed sewer bulkheads and instituted an Erosion Control Measures (ECM) to prevent PCB-impacted soils and sediment from entering the storm sewer system. The ECM activities included regrading and capping PCB-impacted soils.

AOC-2: Former PCB Spill and Affected Area

AOC-2 consists of the main corridor that runs the length of the former Forge building. The surface of AOC-2 was impacted by a PCB oil spill from damaged electrical transformers during the demolition of the building.

AOC-3: Relay Rod Area

AOC-3 consists of the former relay rod area that contained oil pits and trenches. MH and piping in the relay rod area historically had PCB detections prior to the PCB transformer spill in December 2011.

AOC-4: Truck Repair/Maintenance

AOC-4 consists of the former truck repair/maintenance area (formerly the Electrical Crib). Previous maintenance activities performed in AOC-4 may be the source of PCBs detected in oil, sludge, and water samples collected by AAM in July 1998. A sample collected by Groundwater & Environmental Services, Inc. (GES) from a sump in the truck repair/maintenance area contained PCBs at concentrations greater than 50 milligrams per kilogram (mg/kg).

AOC-5: Basement & Quench Oil Pump Pits

AOC-5 consists of an area that was used as the heat treatment area and formerly contained a basement and quench oil pump pits. Due to the heat-treating operations that were performed in AOC-5, there was a potential for petroleum impacts to the soils and groundwater underneath the AOC. The former basement and quench oil pump pits were backfilled and covered with concrete at some time during the operation of the Site by GM or AAM, prior to the demolition of the Forge building. It is unknown if the

basement and quench oil pump pits were cleaned prior to backfilling or the type of the material used for backfilling.

AOC-6: Waste Treatment Area, Lift Station, & Waste Storage Area

AOC-6 contains the waste treatment area, sanitary sewer lift station, and a waste storage area. The waste treatment area was used to treat the IW collected in various trenches and pits and conveyed to the waste treatment area via overhead piping. IW was discharged from the overhead piping into an oil/water separator containing two basins. The north basin was the first chamber where oil/graphite was skimmed off; the south basin was the second chamber that went to the sanitary sewer lift station. An active skimmer was used to remove oil/graphite (the skimmer is still present) which was then transferred to the two, approximately 1,500-gallon aboveground storage tanks (ASTs) located to the south of the second chamber. After exiting the second chamber, the effluent entered the lift station and was then conveyed to the sanitary sewer system. The ASTs and associated piping are covered with potential asbestos-containing material (ACM). The area south of the ASTs contains a concrete pad equipped with drains and was used to store drums of oil and other wastes.

AOC-7: Environmental Building (Former Oil Pump House)

AOC-7 consists of the Environmental building, which was the former oil pump house associated with the underground storage tank (UST) farm located in AOC-8. The building later housed hazardous waste and includes exterior areas located to the east, west, and north of the building where drum storage took place. A spill pad/bermed area is located on the northwest side of building.

AOC-8: Oil USTs/C&D Pile

AOC-8 consists of the area that formerly contained up to 18 25,000-gallon USTs. At the time of the Phase I RI, most of the area was covered by a 4,000 cubic yard (cy) pile of construction and demolition (C&D) debris up to 15 ft high. Aerial photographs show the former presence of an Air Compressor building and a Maintenance Storage Facility building over portions of the former tank farm area. A review of the Environmental Data Resources (EDR) Radius Search indicated that 13 24,722-gallon USTs were decommissioned and removed from the Site in February 1991. The C&D debris pile was removed between October 12, 2015, and February 9, 2016, as part of an Interim Remedial Measure (IRM) performed by The Environmental Services Group (NY), Inc. (ESG) under New York State Contract No. D009634.

AOC-9: Railroad Spur & Solid Waste Accumulation Area

AOC-9 consists of the area that formerly contained a railroad spur and used to store equipment. Investigations in this area by Conestoga-Rovers & Associates (CRA) and AAM (CRA, November 2000) indicated the presence of PCBs in subsurface soils.

AOC-10: Bermed Area

AOC-10 consists of a bermed area that contained two sloped concrete berms with a barrier wall, drain, pump house, and a used oil AST. The purpose of the bermed area was to facilitate the collection of oil from machinery and swarf. After oil was collected, it was pumped into the AST pending disposal.

GM performed an excavation of this area in 1998 (Blasland, Bouck & Lee [BB&L], December 1998) to remove PCB-impacted soils. In addition, an investigation by CRA of the former railroad lines and railroad spurs located to the south and north of AOC-10, respectively, indicated the presence of PCBs in subsurface soil down to 12 ft below ground surface (bgs) (CRA, November 2000).

AOC-11: Railroad Spur

AOC-11 consists of the location of a former railroad spur located along the southern property line. Investigations in this area by CRA and AAM (CRA, November 2000) indicated the presence of PCBs in surface and subsurface soils.

AOC-12: Steel Yard

AOC-12 consists of the former steel yard where steel was unloaded and stored prior to being used in the forging process. Previous investigations indicated that the presence of PCBs in subsurface soils (BB&L, December 1998) was attributed to the historic storage of swarf material in the area in the vicinity of MH-52.

AOC-13: Front Forge/ Hot Formers

AOC-13 consists of the area that formerly contained the front forge area and hot former pit. Samples of oil collected by GES from this area indicated the presence of PCBs (GES, October 2012). PCBs were detected in samples collected from the IW lines, hot former pits, and CBs during sampling conducted in July of 1998 (BB&L, June 1999).

AOC-14: Former Die Room/C&D Pile

AOC-14 consists of the area that formerly contained the die room. A 700-cy milled pile of C&D material was located in this AOC. A black oily substance oozing from the base of the C&D pile was observed during the RI and a sheen was present on standing water adjacent to the black oily substance. The C&D debris pile, which included the bulk solid material sampled during the Phase I RI, was removed between October 12, 2015, and February 9, 2016, as part of the IRM performed by ESG under New York State Contract No. D009634.

AOC-15: General Stores/Metal Lab Area

AOC-15 consists of the area that formerly contained the metal lab and a general storage area. During a URS Corporation (URS, acquired by AECOM) visit to the property on July 30, 2013, suspected PCB-containing wood block and a black oily substance on the surface were observed.

AOC-16: 300 Ton Press & Cold Headers Area/C&D Pile

AOC-16 consists of the area that formerly contained the 300-ton press and cold headers. A 200-cy pile of C&D material occupied the northwest corner of AOC-16. Soil samples collected from within AOC-16 contained concentrations of PCBs greater than 50 mg/kg (GES, October 2012). Significant staining was noted on the concrete surface. The C&D debris pile was removed between October 12, 2015, and February 9, 2016, as part of the IRM performed by ESG under New York State Contract No. D009634.

1.2 Site Hydrogeologic Conditions

Subsurface information indicates that the following textural units underlie the Site, from the surface downward: fill, Silty Clay Till, Lacustrine Clay, and bedrock. Bedrock was not encountered in the on-site borings, which were advanced to a maximum depth of 30 ft.

The primary hydrogeologic units at the Site are a discontinuous perched water table in the fill and the water table in the Silty Clay Till. The depth to water in the fill unit ranged from about 1 to 6 ft bgs and groundwater in the Silty Clay Till was encountered from about 2 to 15 ft bgs. Fill thickness varies across the site, ranging from absent to approximately 14 ft.

Overall groundwater flow in the fill unit is toward the west with a horizontal hydraulic gradient that ranges from 0.0001 to 0.0336 foot per foot (ft/ft). Horizontal hydraulic conductivity obtained from field testing indicates variable permeability with values ranging from 3.73×10^{-5} centimeters per second (cm/sec) to 8.07×10^{-3} cm/sec.

A relative high in the groundwater surface occurs in the eastern portion of the Site and is likely due to groundwater recharge through the fill in AOC-1, which is the largest unpaved area on the site. Groundwater flow in the Silty Clay Till across the western industrial portion of the Site is generally toward the west. The horizontal hydraulic gradients in the Silty Clay Till range from 0.0037 to 0.0226 ft/ft.

Horizontal hydraulic conductivity values for the Silty Clay Till range from 7.11 x 10^{-8} cm/sec to 5.47 x 10^{-3} cm/sec with the higher hydraulic conductivity associated with discontinuous sand lenses within the unit.

1.3 Purpose and Scope of Report

The scope and components of the Site remediation were identified in the March 2020 ROD. They comprise: 1) active construction to remediate the Site; and 2) engineering and institutional controls to protect the public and the environment after construction is completed. This PDIR presents the results of information gathered as part of the PDI, as well as relevant data obtained during previous investigations. The results of the PDI will be used for the remedial design.

1.4 Previous Site Work and Investigations

1.4.1 Blasland, Bouck & Lee, Inc. – December 1998

In December 1998, BB&L submitted the Interim Corrective Measures Letter Report - Addendum I, American Axle & Manufacturing Tonawanda Forge Plant (BB&L, December 1998) to the NYSDEC – Region 9 on behalf of GM Worldwide Facilities Group, Environmental Remediation and International Environmental Support, of Detroit, Michigan (GM ER & IES). The report summarized the results of an investigation and the corrective actions taken to address possible sources of PCBs in the AAM storm sewer system. Sewer system MH locations are shown in Plate 1.

The following activities were performed at the Site as part of the investigations and corrective actions:

- historical records review to determine potential sources of PCBs in the storm water;
- a soil investigation conducted in the vicinity of portions of the storm sewer system and MHs;
- storm sewer cleaning;
- sewer system retrofitting;
- storm sewer video inspection; and
- storm sewer sampling events during the months of October, November, and December 1998.

Results of these activities are discussed below.

An October 1998 storm sewer sampling indicated that PCB concentrations in storm water were not related to non-contact cooling water but were possibly the result of sedimentation and residue present in the piping.

A soil investigation was performed along the previously identified compromised storm sewer lines beneath the Forge area (i.e., manholes MH-51, MH-52, and MH-53) and beneath the southern access road (i.e., manholes MH-58, MH-59, and MH-60). The area in the vicinity of MH-52 had historically been used for the storage of swarf materials (i.e., metal turnings, cuttings, grindings, and chips, usually covered with cutting oil). The investigation indicated the presence of PCBs in subsurface soils.

A November 1998 sewer pre-cleaning sampling event was performed. Results indicated the primary areas of concern appeared to be at manhole locations MH-53-2, MH-53-3, MH-56, and MH-64. Storm sewer cleaning was performed between November 12 and 25, 1998 along 37 sewer intervals. A post-cleaning video inspection was made and several cracks and collapsed sections of piping were identified (see Figure 1-4).

Between November 12 and 25, 1998, sewer lines deemed unnecessary were removed from the storm sewer system by installing bulkheads. The majority of the bulkheads installed were within the CBs located in the Front Forty. A post-cleaning sewer sampling event was performed in December 1998 and indicated that concentrations of PCBs in the AAM storm sewer system had been significantly decreased.

1.4.2 American Axle & Manufacturing – April 15, 1999

On April 15, 1999, AAM submitted a letter titled *AAM Industrial Waste System* (AAM, April 15, 1999) to the NYSDEC – Region 9. The letter indicated that AAM had performed cleaning and inspections of two IW lines running the length of the Forge building. The cleaning included associated MHs, the hot former pits, and CBs.

The results of a March 1999 sampling event indicated two sample locations (CB @ S-23 and IWP-HF#4) from the IW lines, associated MHs, hot former pits, and CBs with elevated PCBs.

1.4.3 Blasland, Bouck, & Lee, Inc. – June 1999

In June 1999, BB&L submitted the *Interim Corrective Measures Letter Report - Addendum II, American Axle & Manufacturing Tonawanda, Tonawanda Forge Plant, Tonawanda, New York* (BB&L, June 1999). The report summarized the storm sewer and industrial cleaning activities, storm sewer sampling, bulkhead installation, and inspection and repairs recommended and performed since the Addendum I report was submitted by BB&L in December 1998. The report covers the time period of December 1998 through March 1999.

In December 1998, storm sewer lines between manholes MH-58, MH-59, and MH-60 and MH-83 and MH-84 were cleaned and then video inspected. Previous sampling events had detected PCBs in these MHs and video inspections had shown compromises to the storm sewer lines.

Additional bulkheads were installed in MHs and sewer lines within both the Forge area and the Front Forty between December 1998 and February 1999.

A storm sewer sampling event was performed in February 1999 to evaluate the results of the December 1998 cleaning event. Post-cleaning sampling indicated that PCBs were present in water from storm sewer lines between manholes MH-51 through MH-53 and MH 58 through MH-60. The source of the PCBs was suspected to be from damaged sewer lines being impacted by surrounding PCB-containing soils. In addition, a review of plant drawings by BB&L indicated that some MHs were connected to laterals from roof conductors used to convey rainwater from the roof to the storm sewer system. PCB-containing transformers and electrical substations located on the roof in the vicinity of the roof conductors were identified as potential sources of PCBs.

The results of repeated cleaning, video inspection, and storm sewer sampling events identified six storm sewer areas (SSAs) as potential sources of PCBs.

BB&L performed an engineering study to determine potential repair/replacement methods for some of the impacted sewer lines. Additional investigations were proposed for the remaining sewer lines.

In the report, BB&L summarized the following remedial activities performed at the Site by AAM:

- During December 1998, AAM performed cleaning and inspections of two IW lines, the hot former pits, and CBs (currently identified as AOC-13) which had been used to collect industrial waste generated during the forging process. The cleaning performed in December 1998 was in response to PCBs being detected in samples collected from the IW lines, hot former pits, and CBs during sampling conducted by AAM in July of 1998. Although the IW lines, hot former pits, and CBs were not suspected as potential sources of PCBs to the storm sewer, they were cleaned to eliminate possible PCB sources to AAM's Industrial Waste Treatment Plant (IWTP) because the IW lines were connected with overhead piping within the Forge to the IWTP.
- Three IW CBs located in the truck repair area (formerly the Electrical Crib, currently identified as AOC-5) were used to contain used motor oils and lubricants. The three IW CBs were connected with overhead piping within the Forge to the AAM IWTP. BB&L concluded that previous maintenance activities performed in the Electrical Crib may have led to detections of PCBs in oils, sludges, and wastewater samples collected by AAM in July 1998. The cleaning

activities performed on the IW lines, hot former pits, and CBs reduced PCB-containing oils and sludges from the IW system.

1.4.4 Conestoga-Rovers & Associates – November 2000

In November 2000, Conestoga-Rovers & Associates (CRA) submitted a report to GM ER & IES titled the *Historic and Active Railroad Drainage Line Subsurface Investigation*, Powertrain Group, Tonawanda Engine Plant, Tonawanda, New York (CRA, November 2000). The report summarized an investigation of the railroad drainage lines at the GM-Tonawanda facility that was performed to determine if the lines were a contributing source of PCBs to the storm water discharge to SPDES-permitted Outfall 001. The railroad drainage lines are tied into the storm water sewer system. The report also provided a summary of the Site background with regard to railroad drainage lines and past site activities.

Between March 8, 1999, and April 6, 1999, 296 direct push soil borings were advanced along existing and historical railroad tracks. Soil samples were collected from the ground surface to 12 ft bgs and screened for PCBs using EnviroGard® Immunoassay PCB in Soil Test Kits. The PCB screening consisted of a comparison between the samples and the PCB standards at concentrations of 1 part per million (ppm), 5 ppm, 10 ppm, and 50 ppm. Approximately 5 percent of the samples collected were sent off-site for confirmation analytical testing for PCBs by United States Environmental Protection Agency (USEPA) Method 8082. Immunoassay results are shown in Appendix A (Appendix C in the RI Report).

Soil sample results indicated the presence of PCBs with concentrations greater than 50 ppm in soils at depths down to 12 ft bgs along the property line in the southwest corner of the Site. The maximum concentration of PCBs in samples sent off-site for confirmation analytical testing was 180 ppm.

Soil sample results also indicated the presence of PCBs with concentrations greater than 50 ppm in areas of compromised sewer system lines in the Forge area, southern access road, and along the former railroad spur located along the Site's southern property line.

1.4.5 Blasland, Bouck, & Lee, Inc. – October 2001

In October 2001, BB&L submitted a report titled *Interim Corrective Measures Letter Report - Addendum III, American Axle & Manufacturing, Tonawanda Forge Plant, Tonawanda, New York* (BB&L, October 2001) to the GM ER & IES. The report summarizes the results of an additional storm sewer assessment, an investigation of the Front Forty area, and the implementation of ECMs in the Front Forty area.

Various investigations related to the presence of PCBs in the storm sewers were performed in 1999. PCB-containing transformers were known to be present on the roof of the AAM facility. Sampling was performed on the roof of the AAM facility to determine if the roof was a source of PCBs that were being carried by rainwater via roof conductors, to the storm sewer. Analytical results indicated the presence of PCB concentrations ranging from 0.14 micrograms per liter (µg/L or parts per billion [ppb]) to 1.09 µg/L. It was determined that the roof was a contributing source of PCBs to the storm sewers.

In February, August, and September 1999, sampling was conducted to determine if the Front Forty was a potential source of PCB-impacted sediment-laden runoff. Analytical results indicated a contribution of PCBs to the storm sewer system from runoff originating from the Front Forty.

In October 1999, a PCB/suspended solids study was performed to identify potential sources of the PCBs observed in storm water in relation to suspended solids, oil and grease, and changes in weather. BB&L concluded that PCB detections were associated with PCBs adsorbed to suspended solids and not dissolved PCBs in the water or in oil and grease. Also, BB&L concluded that rainfall and wind conditions may have impacted the total suspended solids (TSS) and turbidity resulting in elevated PCBs detections in storm water.

An ECM was implemented in the Front Forty between March and October 2000 to reduce PCB storm water issues in SSA-3 and SSA-4, which are located along the northern Site boundary and in the main parking lot, respectively. In May 2000, six percolation test pits were excavated in the Front Forty to assess the potential for the subsurface soils to percolate or retain water. A 1 to 2-ft thick fill layer was encountered over a clay layer and no water was encountered. It was determined that the soils below the fill layer had minimal percolation capacity. In May and June 2000, 57 direct push soil borings were advanced. Soil samples were collected until native material was encountered. The fill was encountered down to 8 ft bgs. Soil samples of the fill material were field screened with EnviroGard® Immunoassay PCB in Soil Test Kits. Results indicated the presence of PCBs in the fill material at concentrations greater than 50 ppm at depths down to 6 ft bgs. Soil samples were not collected from the native material found below the fill material. Immunoassay results are shown in Appendix A (Appendix C in the RI Report).

The implementation of the Front Forty ECM was performed between March and October 2000. The ECM activities included:

- A pre-construction topographic survey and two subsequent construction surveys to establish grade control for earthwork activities.
- The leveling of existing on-site soil and C&D debris piles. The C&D piles were consolidated and buried below final grade.
- An area of slag was excavated, crushed, and re-graded within the Front Forty.
- Approximately 3,413 cy of Type S1 common fill was imported, placed, and compacted to achieve necessary design elevations. The Type S1 consisted of a dark brown sandy silty clay soil.
- A perimeter berm was constructed using a combination of on-site soil and imported Type S1 fill.
- A stone-lined low area was constructed. On-site excavated soils from the stone-lined low area were used to construct the eastern berm on the Front Forty.
- An earthen spillway was constructed along the northern berm to allow for drainage of storm water runoff from the Front Forty into manhole MH-85. The spillway invert and side slopes were lined with erosion control matting and the surfaces downstream of the invert were lined with riprap underlain with geotextile fabric.
- Approximately 5,650 cy of topsoil was imported, and a 4-inch-thick lift was placed over the Front Forty area, with the exception of the riprap covered areas. Topsoil was also placed in an approximate 6-inch-thick lift on the exterior slopes of the Front Forty perimeter berm.
- A maintenance access road and turn around were constructed in the northwest corner of the Front Forty.
- The topsoil was hydro seeded.
- Erosion control matting was installed on the side slopes of the perimeter berm and along the centerline of the drainage swales.

Between August and October 2000, storm sewer cleaning was performed in SSA-3 and SSA- 4 to address sedimentation and debris related to the Front Forty. In addition, select storm sewer lines and the inlet formerly associated with the Front Forty were abandoned in-place. Post-ECM storm sewer sampling indicated that the ECM implemented in the Front Forty was successful in reducing PCB impacts to the storm sewer.

1.4.6 Blasland, Bouck, & Lee, Inc. – November 2004

In November 2004, BB&L submitted a report titled *2002 Investigation and Response Activities Summary Report, American Axle & Manufacturing Tonawanda, NY Forge Plant* (BB&L, November 2004)

to the GM ER & IES. The report summarized the results of an additional storm sewer investigation and storm sewer response activities completed in 2002.

A storm water sampling program was conducted during May 2002. Between May 10 and May 17, 2002, 144 samples were collected from seven locations. Storm water sampling results indicated that the average concentration of PCBs was 0.040 µg/L, with a maximum PCB concentration of 0.32 µg/L at manhole MH-55.

As part of the storm sewer response activities, an 8-ft section of collapsed pipe located near manhole MH-52 was repaired. This repair was made to reduce the amount of PCB-impacted soil surrounding the pipe entering the storm sewer system. In addition, the MH was raised by approximately 4 inches and a solid MH cover installed to reduce any PCB-impacted soil from entering the MH. Due to the observation of oil in manhole MH-58, in June 2002 manhole MH-58 was cleaned, select laterals were abandoned, and a sealant was applied to the inside of the MH. The purpose of the sealant was to mitigate the seepage of oil into the MH from surrounding soils (see Figure 1-4).

Storm sewer cleaning and videotaping was performed in July 2003. The purpose was to remove potentially PCB-impacted sewer sediments and debris from the storm sewer lines. During the video inspection the following observations were made:

- Some production-related material entered MH-57 from an extruder machine;
- Several cracks in pipe sections were noted between MH-51 to MH-52, MH-58 to MH-59, and MH-59 to MH-60;
- Moderate staining was noted between MH-59 and MH-60;
- Hardened debris was present in pipe sections from MH-56 to MH-55 and MH-55 to MH-54; and
- Black sludge/tar like material was observed throughout pipe sections from MH-54 to MH-78 and MH-78 to MH-77.

1.4.7 Conestoga-Rovers & Associates – August 2003

In August 2003, CRA submitted a report titled *Re-Routing and Abandonment Certification Report, Storm Sewer Segment from Manholes MH-54 and MH-76*, General Motors Powertrain Group, Tonawanda Engine Plant, Tonawanda, New York (CRA, August 2003) to GM ER & IES.

The report summarizes the sampling, investigations, replacement, and abandonment of pipe sections from MH-54 to MH-78 and MH-78 to MH-77. In the pipe sections from MH-54 to MH-78 and MH-78 to MH-77, swarf material (material produced by machining operations) and a black sludge/tar like material were identified during a July 2003 storm sewer cleaning and videotaping. Analytical results of the swarf and black sludge/tar indicated both materials were impacted by PCBs ranging in concentrations from 1.47 ppm to 4,000 ppm. Subsequent cleanings were able to remove the swarf material by dry vacuuming, but the tar-like material could not be removed. Following the cleaning, GM experienced three consecutive water quality exceedances for PCBs at SPDES permitted Outfall 001. As a result of the exceedances, a bypass pumping system was set up at manhole locations (MH-54, MH-78, and MH-77) to eliminate flow through the pipe sections containing the tar-like materials. Based on an engineering evaluation, it was determined that the most effective solution was to re-route the sewer system upstream of the impacted areas by installing new sewer lines and abandoning in-place the impacted lines.

A direct-push investigation was performed in September 2002. The purpose of the investigation was to determine if PCB-impacted materials had migrated to the exterior of the existing sewer lines, and to pre-characterize soil in the areas where the new sewer lines would be installed for off-site disposal. Analytical results indicated that PCB-containing material located within the storm sewer pipes had not migrated to the exterior of the pipes.

An analysis was performed on the tar-like material and results did not exceed any of the leachable guidelines in 40 Code of Federal Regulation (CFR) Part 761 or 40 CFR Part 260. Based upon the results, the USEPA and NYSDEC concurred that abandonment of the PCB-containing material in-place using a non-erodible cement grout was an acceptable alternative to removal.

Between August 19, 2002, and September 7, 2002, the bypass at MH-54 was installed, connecting MH-54 to the GM Plant #4 mainline storm sewer. Between September 9, 2002, and September 23, 2002, the bypass at MH-78 was installed, connecting MH-78 to drop inlet DI-LH. Between September 11, 2002, and October 2, 2002, the bypass at MH-77 was installed, connecting MH-77 to MH-76.

On October 2, 2002, the storm sewer lines that ran from MH-54 to MH-76 were abandoned by backfilling with cement bentonite grout. See Figure 1-4.

1.4.8 Groundwater & Environmental Services, Inc. – October 2012

In October 2012, GES submitted a report titled *Limited Environmental Site Assessment and Site Activities Summary Report*, Tonawanda Forge, 2309 Kenmore Avenue, Tonawanda, New York 14207, NYSDEC Spill #0911809, NYSDEC Spill #1112690 (GES, October 2012) to the NYSDEC. The purpose of the limited Environmental Site Assessment (ESA) was to assess potential environmental conditions identified during numerous field visits, sampling events, and site investigations performed by GES at the Site. In addition to the ESA, GES was tasked by the NYSDEC with documenting various remedial activities being performed at the Site by Lewis' demolition contractor and other NYSDEC contractors.

The GES ESA was performed from August 2011 through September 2012. Based on the activities that were performed and documented during the ESA, the following observations and conclusions were made by GES:

Solid Samples

PCBs have impacted various solid materials at the Site which include concrete/brick found on the floor of the Forge building and wooden brick portions of the floor of the Forge building. Wipe and bulk samples from concrete/brick found on the floor of the Forge building indicated the presence of PCBs at concentrations ranging from non-detect (ND) to 280 milligrams per kilogram (mg/kg or ppm). Bulk samples from the wooden brick flooring material, indicated the presence of PCBs at concentrations ranging from 0.56 to 29 mg/kg. Because of these detections, the wooden brick flooring was removed from the Site. The bulk sample locations were later removed via milling of the concrete.

Subsurface Soils

PCBs were detected in subsurface soil beneath the former Forge building and in the Front Forty. PCBs in the subsurface soils beneath the former Forge building ranged from ND to 290 mg/kg at depths from 1 ft to 12 ft bgs, with the highest concentrations being detected in the fill material which was on average approximately 3 ft thick. PCB impacts were generally not detected in the native clay till underlying the fill material and if they were detected in the clay, they were two to three orders of magnitude lower than the concentrations found in the fill material. The highest concentrations of PCBs in the subsurface soils beneath the former Forge building occurred in the vicinity of the 300-ton presses (i.e., Tie Rod Socket area).

PCB-impacted soils were detected in subsurface soil beneath the Front Forty. PCBs in the subsurface soils at depths from 2 ft to 8 ft bgs ranged from ND to 69 mg/kg detected in the fill material, which was on average approximately 6 ft thick. PCBs were not detected in the native clay till underlying the fill material.

Groundwater

Groundwater samples collected from six new and one existing monitoring well indicated the presence of only common laboratory contaminants [acetone and bis(2-ethylhexyl)phthalate] in three of the

seven monitoring wells. Semi-volatile organic compounds (SVOCs), metals, and PCBs were not detected in the groundwater samples collected.

Surface Water

Surface water samples were collected from the Front Forty ponded area and the flooded driveway/parking area. The surface water sample collected from the Front Forty ponded area indicated concentrations below applicable NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for surface waters, with the exception of acetone. Surface water samples collected from the flooded driveway/parking area by both Titan and GES exceeded NYSDEC TOGS 1.1.1 values for PCBs and ranged from 3.9 to 350 µg/L.

Manhole Water

Water samples were collected from manholes MH-1 and MH-2 adjacent to the PCB oil spill area. Analytical data showed concentrations of PCBs that ranged from 7.99 to 1,254 µg/L.

PCB Oil Spill Cleanup

A total of 37 wipe and seven bulk samples were collected prior to remedial activities in the PCB spill area and surrounding areas. Wipe sample results from the concrete and brick surfaces indicated the presence of total PCBs ranging from 16.6 to 18,000 micrograms per 100 square centimeters (µg/100 cm^2). Bulk samples from the concrete and brick surfaces indicated the presence of total PCBs ranging from 2.7 to 280 mg/kg.

Following remedial activities in the PCB spill area, four milled concrete and brick bulk samples were collected from the milled concrete and brick. The results indicated the presence of total PCBs ranging from 0.48 to 28.1 mg/kg, which was below target threshold of 50 mg/kg as outlined in 40 CFR 761.125.

1.4.9 Remedial Investigation - URS Corporation – October 2012-2018

The RI report prepared by URS and dated January 2018 (Appendix A) is summarized below.

1.4.9.1 Summary of RI Analytical Results

No background samples were collected. Therefore, the analytical results were only compared to promulgated and non-promulgated standards, criteria, and guidance values. Locations of samples collected during the RI are shown in Plate 2.

The groundwater analytical results are compared to Class GA groundwater standards, criteria, and guidance values (SCGs) presented in TOGS 1.1.1 and the surface water analytical results are compared to Class A surface water SCGs also presented in TOGS 1.1.1.

Soil and sewer sediment analytical results were compared to three Title 6 New York Codes, Rules and Regulations (NYCRR) Part 375 Soil Cleanup Objective (SCO) categories:

- Unrestricted Use
- Protection of Groundwater
- Industrial Use

The Unrestricted Use category is required by DER-10 Section 4.4 (b) 3 ii. The level and extent of contamination found at the Site makes it unsuitable for unrestricted use without remediation and will not be included in this summary.

The Protection of Groundwater category is used to address the potential for residual soil contamination to leach and act as a long-term source of groundwater contamination. For organics, the Protection of Groundwater criteria are based on the ability of organic matter in soil to adsorb organic chemicals and prevent them from leaching out of the soil. The criteria are calculated using a default fraction

of organic carbon value and published soil-water partition coefficients. For inorganics, published soil-water distribution coefficients are used. As such, the Protection of Groundwater criteria were developed using generic site conditions and may not accurately reflect actual Site conditions. As a result, it is prudent to evaluate exceedances of Protection of Groundwater criteria in comparison to actual contaminant concentrations in groundwater. The following presents a broad summary of contaminant conditions at the Site. Because contaminant concentrations exceed Unrestricted Use criteria across most of the Site, the Unrestricted Use category is not included in this summary.

Wipe samples were compared to 100 ug/100 cm^2 for non-porous surfaces consistent with 40 CFR Part 761.125 and the allowed site-use.

1.4.9.1.1 Asbestos Containing Materials Impacts

ACM is present on the ground surface in every AOC except for AOC-1. These materials are primarily roofing material left over from the demolition, and sealant used between concrete sections.

1.4.9.1.2 Surface Cover Impacts

The Site is primarily covered by concrete and asphalt. Areas formerly inside the buildings exposed after demolition also include surface cover with brick, and tile. All except one wipe samples collected exceeded the 40 CFR 761.79 decontamination standard of ≤10 µg/100 cm^2 for PCBs. However, only one brick chip sample exceeded the threshold of 50 mg/kg that requires disposal as a hazardous waste.

1.4.9.1.3 Soil Impacts

No volatile organic compounds (VOCs) were detected in the soils at concentrations exceeding Industrial Use criteria. Acetone exceeded Unrestricted Use and Protection of Groundwater criteria in AOC-01, AOC-02, AOC-06, AOC-09, AOC-10, AOC-13, AOC-14, AOC-16, and North of AOC-14; and methylene chloride exceeded Unrestricted Use and Protection of Groundwater criteria in AOC-13 and the parking lot.

SVOCs, primarily polycyclic aromatic hydrocarbons (PAHs), were detected in AST/MH/CB sewer sediments, surface soils, and subsurface soils at concentrations exceeding Unrestricted Use, Protection of Groundwater and Industrial Use SCO criteria. In general, SVOC concentrations were relatively low, within one order of magnitude of the SCOs.

PCBs were detected in AST/MH/CB sewer sediments, surface soils, and subsurface soils at concentrations exceeding Unrestricted Use, Protection of Groundwater, and Industrial Use criteria. The highest PCB levels in soils were found in AOC-8, AOC-12, AOC-13, and AOC-15. PCBs were also detected in stained concrete.

The presence of arsenic in soils at concentrations exceeding its Industrial Use criterion was found at several locations in AOC-1 and AOC-5 and at one location in AOC-8 and AOC-12. Mercury was detected in one location in AOC-1 at a concentration exceeding the Industrial Use criterion.

1.4.9.1.4 Groundwater Impacts

Two groundwater sampling events were conducted during the RI (January 2014 and November 2016). With the exception of acetone and methylene chloride in the first event only, no VOCs were detected in groundwater at concentrations exceeding NYSDEC TOGS 1.1.1 Class GA groundwater standards. Acetone and methylene chloride are common laboratory contaminants and the sporadic detections of these two VOCs suggests that they are not Site contaminants.

With few exceptions, SVOCs were not detected in groundwater at concentrations exceeding criteria. Exceptions included six detections of phenolic isomers (i.e., phenol, cresols), one detection of bis(2-ethylhexyl)phthalate (in the first event only), and one detection of PAHs.

PCBs were detected in groundwater at concentrations exceeding criteria at numerous locations across the Site. In general, PCB impacts are relatively low. However, PCB impacts in AOC-13 are considerably higher than at other locations across the Site. Some of the highest PCB in soil impacts were detected in AOC-13, and adjacent AOC-12 and AOC-15.

Arsenic, chromium, lead, selenium and/or thallium were detected above groundwater criteria in only AOC-1, AOC-5, AOC-12, AOC-13, and AOC-16. Iron, magnesium, manganese, and sodium were also detected above their relevant criteria at numerous locations across the Site.

1.4.9.1.5 Light Non-Aqueous Phase Liquid Impacts

Eight light non aqueous phase liquid (LNAPL) samples were collected: two from ASTs, one from a standpipe, four from MHs and one from a monitoring well. With the exception of the monitoring well, LNAPL thicknesses in seven of the eight samples ranged from 1/8-inch to 1-inch. The LNAPL present in the monitoring well (AOC-14-MW-21I) was measured at 96 inches. Three LNAPL samples were identified as motor oil, one sample (AOC-14-MW-21I) as diesel fuel, and the remaining four samples were unknown petroleum hydrocarbons. Four of the samples (AOC-14-MW-21I, MH-59, MH-108 and MH-120) contained PCBs at concentrations greater than 50 mg/kg and are considered hazardous PCB liquid waste per 40 CFR Part 761. The location of all MHs can be found in Plate 1.

LNAPL was also identified in monitoring well AOC-14-21I. LNAPL was removed via passive recovery. A total of 155 gallons of LNAPL was removed and properly disposed of. The source of the LNAPL in AOC-14-MW-21I was the subject of further investigation through an IRM and is discussed in Section 1.4.10.

1.4.9.1.6 Sewer System Impacts

A complex network of utilities underlies the Site. Available information indicates the presence of electrical lines, storm sewers, sanitary sewers, non-contact cooling water, perforated pipe, industrial waste lines, fire protection, and mill water lines. Surface expressions of these systems consist of MHs, CBs, and current and former roof drains. The available information indicates that storm and sanitary sewers ran from the eastern, upgradient portion of the Site to the former IWTP on the western side of the Site. Discharge from the treatment plant would have been to the west via a storm sewer. As previously stated, sewers leading off Site have been plugged.

Accessible MHs and CBs were opened and inspected. Sewer sediment samples were collected from those MHs that contained a recoverable volume of sewer sediment. Also, LNAPL samples were collected from four MHs; sewer sediment sampling at these four locations was not attempted.

The CBs and the majority of MHs sampled were associated with the storm sewer system; manholes MH-119 and MH-120 appear to be associated with the IW line, and manholes MH-117, MH-126, and MH-137 were associated with the sanitary sewer.

<u>LNAPL</u>

LNAPL was present in manholes MH-59, MH-108, MH-119, and MH-120. As mentioned above, manholes MH-119 and MH-120 appear to be associated with the IW line. Manhole MH-108 might be associated with the IW line. The sample from MH-108 was identified as motor oil, the sample from MH-119 as an unknown petroleum hydrocarbon, and the sample from MH-120 as motor oil.

Manhole MH-59, located on the southern side of the Site, is associated with the storm sewer system. The analytical results were inconclusive, identifying the sample as an unknown hydrocarbon.

LNAPL, identified as No. 2 fuel oil, was found in monitoring well AOC-14-MW-21I. It was initially suspected that during drilling, the drill rig might have punctured a fuel pipeline, resulting in a

release of the product into the formation. A subsequent test trench excavation encircling the well on November 12-15, 2018, did not reveal piping or an obvious LNAPL source.

Sewer Sediments

Sewer sediment samples were collected from 34 CBs and 11 MHs. There are no cleanup standards specific to sewer sediments. Because the sewer sediments are located at depth and could be encountered by a construction worker during future development, the analytical results were compared to Part 375 Industrial Use SCOs for soil. The results were also compared to Unrestricted Use and Protection of Groundwater SCOs, however, because Industrial Use is the most applicable category for the sewers, the following discussion focuses on the evaluation of the sewer sediment results with respect to the Industrial Use SCOs.

Sewer sediment samples from 10 MHs and 28 CBs contained at least one PAH, PCB, or metal at a concentration exceeding the Industrial Use SCOs. Benzo(a)pyrene, which has a very low Industrial Use SCO, was the predominant PAH exceeding criteria. In general, PAH concentrations were relatively low, within one order of magnitude of the Industrial Use criteria. However, the highest PAH concentrations detected in AOC-12 manhole MH-51 had PAH levels more than two orders on magnitude above the Industrial Use criteria.

PCBs were detected at concentrations above the Industrial Use criteria at 15 locations. The predominance of PCBs in MHs and CBs on the west side of the Site suggests possible impacts along the sewer lines in that area (i.e., not just in the MHs and CBs). PCB concentrations in the western MHs/CBs ranged from 32 to 880 mg/kg.

In the southern portion of the Site, PCBs were detected above the Industrial Use SCO in manholes MH-128, and MH-132. These MHs appear to be associated with the industrial waste sewer line. See Plate 1.

Also, in the southern portion of the Site, PCBs were detected above the Industrial Use SCO in catch basin CB-33, which appears to be an isolated location of PCB impacts in the southern side CBs.

Sewer system drawings are incomplete; the exact pipeline sizes and routing are unknown. As a result, the volume of impacted sewer sediments in the sewers cannot be reliably estimated.

1.4.9.1.7 Surface Water Impacts

One surface water sample was collected from the drainage swale adjacent to Kenmore Avenue (AOC-1-LF-SW-01) during the RI Phase I sampling event. A second surface water sample was collected from the parking lot during the RI Phase II sampling event (Parking Lot Water).

No VOCs or PCBs were detected above Class A surface water SCGs in either sample. PAHs were detected above Class A surface water SCGs in the AOC-1-LF-SW-01 sample. No SVOCs were detected in the parking lot standing water sample.

Metals exceeding Class A SCGs in the AOC-1-LF-SW-01 surface water sample were aluminum, iron, lead, and zinc. No metals exceeded Class A criteria in the parking lot standing water sample.

1.4.9.1.8 Contaminant Fate and Transport

The Site and vicinity is mostly covered with asphalt and concrete. Also, the majority of contaminants detected in soil and groundwater are not readily volatile. As a result, the migration of contaminants in the gas phase is likely minimal, if any.

Contaminants of concern in groundwater are primarily limited to PCBs, arsenic, and some phenolic isomers. Overall groundwater flow is to the west for both the Fill and Silty Clay Till water-bearing zones.

In the surface water sample collected from the Site parking lot, no compounds were detected at concentrations exceeding surface water criteria. The surface water sample collected from the east side of AOC-1, was collected from a drainage swale. The sample contained several PAHs and metals at concentrations above the surface water criteria. However, as no background or upgradient samples were collected, it is unknown whether the results reflect Site impacts or background conditions. It is likely that the PAHs and metals will sorb to sediments and are unlikely to degrade or otherwise be transformed. Consequently, contaminant transport may occur through physical transport of the surface water and sediment particles.

Many of the contaminants detected above SCGs in the sewer sediment samples were not detected above SCGs in either the soil or groundwater. This absence of groundwater impacts, along with the observed surface water ponding at the Site, suggests that the contaminants in the sewer systems are contained and not migrating.

1.4.10 Interim Remedial Measures – January 2016 to May 2019

The NYSDEC initiated the first IRM at the Site in 2015. The remedial measure involved the removal of construction and demolition debris from the Site. The main goal of this IRM was to remove contaminated surficial debris that was hindering investigations required to properly complete the ongoing RI. Specifically, the IRM included the removal, transportation, and off-site disposal of three large surficial piles containing approximately 6,000 tons of construction and demolition debris contaminated with asbestos and/or PCBs. The IRM was completed in January 2016 and the Construction Completion Report (CCR) was approved in August 2016.

In November 2016, 15.5 ft of oil was observed in groundwater monitoring well AOC-14-MW- 21I. The LNAPL was found to contain a PCB concentration of 270 ppm. An additional investigation in November 2018 was conducted to locate and remove the source of the PCB LNAPL that appeared in monitoring well AOC-14-MW- 21I. A ground penetrating radar (GPR) survey identified a pipeline adjacent to AOC-14-MW-21I that extends approximately 260 ft to the southeast, ending at a vault in AOC-02, approximately 100 ft west of the Administration Building. A subsequent test trench excavation (November 12-15, 2018) encircling the well did not reveal piping or an obvious LNAPL source. Approximately 155 gallons of LNAPL was recovered in AOC-14-MW-21I from November 2016 to May 2019. No measurable LNAPL was found in AOC-14-MW-21I since May 2019, with the last inspection in November 2019.

1.5 Overall Nature and Extent of Contamination Summary

This section summarizes NYSDEC's ROD and describes the findings of the Remedial Investigation for all environmental media that were evaluated. Samples were collected from various environmental media to characterize the nature and extent of contamination as discussed below.

1.5.1 Waste/Source Areas

As described in the RI report, waste/source materials were identified at the Site and are impacting groundwater, soil, sewer sediments, and surface water.

Wastes are defined in 6 NYCRR Part 375-1.2 (aw) and include solid, industrial and/or hazardous wastes. Source Areas are defined in 6 NYCRR Part 375-1.2 (au). Source areas are areas of concern at a site where substantial quantities of contaminants are found which can migrate and release significant levels of contaminants to another environmental medium. Wastes and Source areas were identified at the Site include:

1.5.1.1 Waste/Source Areas – Asbestos

A total of 123 bulk samples for asbestos analysis were collected across the Site. The majority of the Site has ACM present at the surface. Along the southern edge of the property and the western edge of the asbestos survey area there is an approximate 100-ft wide area zone where no ACM was identified.

1.5.1.2 Waste/Source Areas – LNAPL

Eight LNAPL samples were collected from ASTs, MHs, one standpipe, and one monitoring well. A summary of the PCB detected results and properties of all LNAPL samples is shown in Figure 1-3A.

VOCs were detected at low concentrations (less than 1.1 ppm) in all but one LNAPL sample. Petroleum-related compounds (i.e., benzene, toluene, ethylbenzene, isopropylbenzene, and/or xylene) were found in two samples. Other VOCs detected in one or more of the LNAPL samples include 1,1-dichloroethane, 1,1-dichloroethene, 1,2,4-trichlorobenzene, methyl acetate, and methylene chloride. SVOCs bis(2-ethylhexyl)phthalate and caprolactam, along with several PAHs, were detected in the standpipe, MH, and one monitoring well sample.

PCBs were detected in the LNAPL samples collected from each of the four MHs sampled, and in the monitoring well AOC-14-MW-21I with a total PCB concentration of 270 ppm. Soil or waste containing PCB concentrations greater than 50 ppm is a hazardous waste in New York State.

Results for the identification of specific petroleum products in the LNAPL samples were inconclusive.

1.5.1.3 Waste/Source Areas – Impervious Surface Materials

Twenty-four concrete chip samples, 15 brick chip samples, two asphalt samples, two bulk solids samples, and six wipe samples were collected for PCB analysis and compared to the Toxic Substances Control Act (TSCA) definition of PCB remediation waste (50 ppm).

- Concrete chip samples: none of the results exceeded the 50 ppm for total PCBs.
- Brick chip samples: PCBs were detected in 12 of the 15 samples. Brick chip sample results exceeded 50 ppm total PCBs at one location.
- Bulk Solids Samples: PCBs were detected in both samples. Bulk solid sample results exceeded 50 ppm total PCBs at one location.
- Asphalt Samples: No PCBs were detected in either of the two samples.
- Wipe Samples: PCBs were detected in five of the six samples from various non-porous surfaces. Five of the samples had total concentrations greater than the 40 CFR Part 761.125 SCG criterion of 10 µg/100 cm^2, or microgram per wipe (µg/wipe). Two of those wipe samples contained PCB concentrations greater than 100 µg/100 cm^2.

A summary of the detected results and properties of all surface material samples where results exceed PCB SCGs are shown in Figure 1-3B.

1.5.1.4 Waste/Source Areas – Sewer Sediments

Forty-eight sewer sediment samples were collected from 11 MHs, 34 CBs, two ASTs, and one 8-inch diameter pipe connecting the two ASTs. Although there are no cleanup standards specific to sewer sediments, sewer sediments are located at depth and could be encountered by a construction worker during future development. Therefore, analytical results, presented in Figure 1-3C, are compared to Part 375 Industrial Use SCOs. The MHs and CBs are not connected to public owned treatment works sewers or outfalls.

Of the 48 samples, none exceeded the Industrial Use SCO for VOCs. However, 36 samples exceeded Industrial Use criteria for SVOCs, including PAHs.

PCBs exceeded Industrial Use criteria in ten CB and five MH locations. Six CBs and three MHs had a total PCB concentration between 50 and 500 ppm and require management as hazardous wastes. PCB concentrations in the western MHs/CBs ranged from 32 to 380 ppm. The maximum total PCB concentration was 880 ppm. Metals exceeding Industrial Use criteria include arsenic at eight locations and copper at one location.

1.5.2 Soil

Surface and subsurface soil samples were collected at the Site during the RI. A total of 48 surface soil samples were collected from a depth of 0-2 inches to assess direct human exposure. In addition, 272 subsurface soil samples were collected from a depth of 2 - 30 ft to assess soil contamination impacts to groundwater. As shown in Table 1-1, the results indicate that soils at the Site exceed the unrestricted SCOs for VOCs, SVOCs, PCBs, and metals. Several metals, PAHs, and PCBs were present above industrial SCOs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, mercury, and PCBs.

Based on the findings of the RI, the past disposal of hazardous waste has resulted in the contamination of soil. The site contaminants identified in soil which are considered to be the primary contaminants of concern, to be addressed by the remedy selection process are: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, mercury, and PCBs.

1.5.3 Surface Water

One surface water sample was collected from the drainage swale adjacent to Kenmore Avenue (AOC-1-LFSW-01) during the RI Phase I sampling event. Due to inadequate drainage, ponding occurs across the Site. A second surface water sample was collected from such an area in the parking lot during the RI Phase II sampling event (Parking Lot Water). A summary of detected analytical results for the surface water samples compared to Class A surface water SCGs is presented in Table 1-2.

Neither sample contained VOCs or PCBs with concentrations above Class A surface water SCGs. Furthermore, the parking lot standing water sample did not exceed Class A surface water SCGs for SVOCs and metals. However, SVOCs (i.e., PAHs) and metals (aluminum, iron, lead, and zinc) were detected above Class A surface water SCGs in the AOC-1-LFSW-01 sample.

Based on the findings of the Remedial Investigation, the disposal of hazardous waste has resulted in the contamination of surface water. The site contaminants that are considered to be the primary contaminants of concern which will drive the remediation of surface water to be addressed by the remedy selection process are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, pyrene, aluminum, iron, lead, and zinc.

1.6 Summary of the Selected Remedy: OU1 – On-Site Soil, Sewer Sediment and Surface Water Contamination

The NYSDEC issued the ROD for the Tonawanda Forge Site for OU1 in March 2020. While the storm water sewer system remains in place, the outlets have been blocked at the property boundaries by the adjacent property owner, GM, in order to prevent contaminated surface water from entering their property. This has resulted in storm water ponding across the Site. Neither VOCs nor PCBs were detected above Class A Ambient Water Quality Standards and Guidance Values. However, PAHs and metals (aluminum, iron, lead, and zinc) were present above the Class A standards (generally between 0.0012 and 0.002 ppb, 100 ppb, 300 ppb, 7 ppb, and 134 ppb, respectively).

No VOCs exceed SCOs for Industrial Use. SVOCs, PCBs, and metals were found in surface and subsurface soil samples across the Site. As groundwater is present at shallow depths (1-2 ft bgs), the majority of the subsurface soils are present in the saturated zone. Of the SVOCs analyzed, six constituents (primarily PAHs) had maximum concentrations that exceeded SCOs: benzo(a)anthracene (190 ppm; SCO 11 ppm), benzo(a)pyrene (170 ppm; SCO 1.1 ppm), benzo(b)fluoranthene (240 ppm; SCO 11 ppm), chrysene (200 ppm; SCO 110 ppm), dibenz(a,h)anthracene (10 ppm; SCO 1.1 ppm), and indeno(1,2,3-c,d)pyrene (32 ppm; SCO 11 ppm). Metals (arsenic and mercury) exceeded industrial use SCOs of 16 ppm and 5.7 ppm with maximum concentrations of 93.2 ppm and 6.6 ppm, respectively.

Although no specific criteria exist for sewer sediment contaminant concentrations, they have been compared to the 6 NYCRR Part 375 Industrial Use SCOs. There are no exceedances of VOCs. SVOCs, metals and PCBs are present in the vast majority of the sewer sediment samples. Exceedances of total PCBs were found in 43 of 48 samples and range from 0.59 to 880 ppm and 15 locations exceeded Industrial Use SCG (25 ppm).

The elements of the selected remedy for OU1 as presented in the March 2020 ROD are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling, and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic, and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Excavation

Excavation and off-site disposal of contaminant source areas, including surface and subsurface soils:

- grossly contaminated soil, as defined in 6 NYCRR Part 375-1.2(u);
- soil exceeding the 6 NYCRR Part 371 hazardous criteria for lead;
- non-aqueous phase liquids;
- soil with visual waste material or non-aqueous phase liquid; and
- subsurface soil containing total SVOCs exceeding 500 ppm.

Excavation and off-site disposal of all on-site soils which exceed Industrial Use SCOs, as defined by 6 NYCRR Part 375-6.8, except in the landfill area at the east end of the Site (AOC-1). This includes

soils containing PCBs above 25 ppm, as defined in 40 CFR Part 761.61(a)(4)(B)(1) and disposed of according to 40 CFR Part 761.61(a)(5)(i)(B).

Approximately 2,400 cy of contaminated soil will be removed from the Site. Excavation and removal of any USTs, fuel dispensers, underground piping, or other structures associated with a source of contamination will be completed. It is anticipated that a significant amount of piping will be encountered during the surface and subsurface excavation.

3. Backfill

Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the Site.

4. Cover System

A site cover will be required to allow for industrial use of the Site in areas where the upper 1 ft of exposed surface soil will exceed the applicable SCOs. Where a soil cover is to be used it will be a minimum of 1 ft of soil placed over a demarcation layer, with the upper 6 inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the Site, will meet the SCOs for cover material for the use of the Site as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include but are not necessarily limited to pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs. This excludes approximately 200 cubic ft (cf) of PCB contaminated concrete that will be demolished, removed, and properly disposed as PCB contaminated waste.

5. Contaminated Sewer Cleaning and Grouting

Approximately 19,000 linear ft of contaminated on-site sewer lines will be cleaned using jetting or a similar, practical sewer cleaning technology. Liquid and solid spoils from the cleaning will be collected, sampled, and either treated on-site or transported and disposed of off-site as appropriate. Sewer cleaning will immediately be followed by the sealing of sewers with flowable fill, pumped, or tremied, as appropriate.

6. Surface Water Control

A series of new, clean CBs and storm water collection systems will be constructed to connect to the existing Town of Tonawanda municipal separate storm sewer system (MS4). The new CBs and collection system will drain ponded water from the Parking Lot area, the ponded area between AOC-1 and Kenmore Avenue, along with other areas of ponding on-site (Figure 1-5). Detention of the storm water collected, if necessary, to meet peak flow criteria established by the Town of Tonawanda, will be achieved within the collection system. Samples will be collected prior to initial discharge and as required by the Town of Tonawanda and must meet discharge limits.

7. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or Site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for low occupancy, industrial use as defined by Part 375-1.8(g) and 40 CFR 761.3, although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or Erie County Department of Health; and

- require compliance with the Department approved Site Management Plan.

8. Site Management Plan

A Site Management Plan is required, which includes the following:

1. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the Site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed in Paragraph 7 above.

Engineering Controls: The soil cover discussed in Paragraph 4 and the Surface Water Control discussed in Paragraph 6 above.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement, including any land use, and groundwater;
- a provision for evaluation of the potential for soil vapor intrusion for any occupied buildings on the Site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- a provision requiring a risk-based approval from the United States Environmental Protection Agency prior to any change of use to high occupancy, industrial use as defined by 40 CFR 761.3 and 40 CFR 761.61 (a)(4)(i)(B)(3)(v);
- a provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described in Paragraph 4 above will be placed in any areas where the upper 1 ft of exposed surface soil exceeds the applicable SCOs;
- provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

2. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- a schedule of monitoring and frequency of submittals to the Department; and
- monitoring for vapor intrusion for any buildings on the Site.

Based on the results of PDIR, areas requiring remediation and quantities listed above in this section have been revised in the appropriate portions of this PDIR to include the new information. Need summary for USEPA requirements based upon discussions from August 2021 with groundwater issues and additional delineation for 1 PPM soil and 10 PPM soil (PCBs)

2 PRE-DESIGN INVESTIGATION

AECOM and our subcontractor team completed the Phase 1 PDI that refined remedial extents and requirements and generated data to support the development of a PCB remedial plan for submittal to USEPA. All activities were supervised by AECOM personnel. The following work elements were performed as part of the PDI:

- Reviewed the Asbestos Survey presented in the RI;
- Conducted additional ACM environmental sampling to assess whether ACM has migrated into the storm sewer network;
- Evaluated storm sewer, sanitary sewer, and industrial waste line sewer contents and environmental sampling of sewer sediments and liquids for waste characterization;
- Conducted additional soil sampling to delineate extent of impacted surface and subsurface contamination;
- Reviewed environmental sampling of concrete/bricks/wood surfaces impacted by former spills
- Conducted additional environmental sampling of impervious cover materials;
- Completed soil borings and soil sampling to delineate the extent of contaminated soil, including TSCA-regulated soil;
- Completed test pits to assess and characterize miscellaneous sub-grade materials in areas with LNAPL; and
- Completed an engineering survey to refine the Site base map and establish the sampling and test pit locations.

PDI locations are shown in Figures 2-1 through 2-3. Tables 2-1 and 2-2 provides the rationale for soil sampling in the AOCs. Table 2-3 provides the rationale for sewer water, sewer sediment, surface water and LNAPL sampling. Both PDI phases work were performed in accordance with the PDIWP and Addendum (Appendix B), unless specified below. Field notes generated during this PDI are included in Appendix C.

AECOM and our subcontractor team completed the Phase 2 PDI that refined remedial extents of surface soil, subsurface soil, and impervious surface contamination and requirements, performed groundwater sampling to assess current conditions, and generated data to support the development of a PCB remedial plan for submittal to USEPA. All activities were supervised by AECOM personnel. The following work elements were performed as part of the Phase 2 PDI:

- Conducted additional soil sampling to delineate extent of impacted surface and subsurface soil contamination;
- Conducted additional environmental sampling of impervious cover materials;
- Completed soil borings and soil sampling to delineate the extent of contaminated soil, including TSCA-regulated soil;
- Completed a comprehensive groundwater sampling program to identify PCB contamination in groundwater.
- Refined the Site base map and established the sampling locations.

Table 2-2 provides the rationale for the Phase 2 soil sampling in the AOCs. The work was performed in accordance with the PDIWP Addendum, December 2021 (Appendix B), unless specified below. Field notes generated during Phase 2 fieldwork are included in Appendix C.

2.1 Asbestos Sampling

AECOM personnel conducted additional asbestos sampling of surface water and sewer sediments contained within the storm sewer network using protocols outlined in the USEPA Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763) and 12 NYCRR Part 56-5. Asbestos handling license for AECOM and asbestos certification for the sampler are included in Appendix D.

Sewer sediment and sewer water samples were collected from manholes DI-8-2020, MH-107, MH-060, MH-113, MH-132, MH-058, MH-108, MH-059, BC-01-2020, MH-103V, MH-064, RRV-01-2020, MH-085, MH-53-2, MH-305 and F40EV-20. These MHs are shown in Figure 2-2.

These samples were sent for analysis to an NYSDOH Environmental Laboratory Approval Program (ELAP) certified asbestos laboratory under chain-of-custody. Soil and sewer sediment were analyzed via polarized light microcopy (PLM) using USEPA Method 600. Surface water was analyzed via transmission electron microscopy (TEM) using USEPA Method 100.2 (long fibers >10 microns only).

2.2 Storm Sewer Water and Sewer Sediment Sampling

There is approximately 19,000 linear ft of storm sewer that needs to be cleaned and closed in place with flowable fill (i.e., low strength concrete) as part of the ROD. Materials inside the storm sewer network must be characterized, removed, and transported off-site for disposal. The storm sewer water requires treatment before discharge to the Town of Tonawanda publicly owned treatment works (POTW).

As part of this task, AECOM collected paired water/storm sewer sediment samples at 17 locations within the on-site storm sewer network. The selected locations were accessible without the need for heavy equipment to remove obstructions for access to the sewers. The sampling and characterization for this effort is summarized below and listed in Table 2-3:

- 17 storm sewer water samples were collected and analyzed for Target Compound List (TCL)/Target Analyte List (TAL) parameters and Resource Conservation and Recovery Act (RCRA) characteristics. Eight of the sample locations were also analyzed for POTW (or SPDES) discharge parameters. The sewer water was collected using an ISCO™ sampling device with the tubing lowered into the MHs and CBs without disturbing the sewer sediment. New tubing was used at every sampling location. The old tubing was properly discarded.
- 17 sludge/waste (aka sewer sediment) samples were collected and analyze all samples for TCL/TAL parameters [Note: reference to the TCL did not include pesticides and herbicide analyses as those parameters are typically not associated with this Site]. Eight of the sample locations were analyzed for full Toxicity Characteristics Leaching Procedure (TCLP) parameters and RCRA characteristics of ignitibility, corrosivity (pH), and reactivity. The sludge/waste samples were collected by lowering a sampling rod and scoop into the MHs and CBs and scooping the sludge/waste from the bottom. In some instances where the total depth of the MH or CB exceeded the reach of the sampling rod, a PONAR dredge sampler was lowered into the MH or CB to retrieve the sample. All tools were decontaminated using an Alconox and water mixture before moving to the next location.

Because sewer sediment and storm water contained within the sewer network were considered to be dynamic, sampling locations were determined in the field after drop inlets were inspected and invert depths were measured along with proximity to former spills and observations made during the field inspections and measurements. Twenty-one locations were sampled for sewer/surface water and 17 locations were sampled for sewer sediments.

- LNAPL samples were collected from two MHs: MH-119 and MH-121. The LNAPL samples were analyzed for TCL/TAL parameters, RCRA characteristics, petroleum product identification, and physical characteristics.

Additional observations are provided in the Sewer Sampling Logs and Inspection Forms located in Appendix E.

2.3 Surface and Subsurface Soil Contamination Delineation

Between November 2 and 11, 2020, AECOM conducted surface soil sampling at 36 locations and surface and subsurface soil sampling at 80 boring locations throughout the Site (Figure 2-1).

Surface soil samples were collected with a trowel or hand auger to a depth of up to 1.8 ft bgs.

Each boring was advanced to a depth of no greater than 12 ft bgs with a track-mounted 6610 DT Geoprobe® rig using a 2-inch Macrocore sampler.

The surface soil sampling and borings were generally completed in accordance with the PDIWP, with exception to the following:

- Surface soil samples were not collected at locations SF-17-20 and SF-19-20 because no soil matrix was encountered.
- Boring SB-03-20 encountered refusal at 4.5 ft bgs, therefore SB-03A-20 was installed approximately 5 ft to the west to cover that location.
- Borings SB-02-20, SB-07-20, SB-03-20, SB-09-20, SB-12-20, SB-18-20, SB-31-20, SB-35-20, SB-39-20, SB-42-20, SB-49-20, and SB-56-20 were terminated before their target depths due to refusal.
- Borings SB-07-20, SB-08-20 and SB-49-20 were installed approximately 2 ft from their proposed locations due shallow refusal at the original locations.

The soil samples were analyzed for PCBs, SVOCs, VOCs, metals, full TCLP, flashpoint, reactivity and corrosivity (pH), or a combination thereof. Not all samples were analyzed for these parameters. Details on each surface sample and boring location are provided in Appendix F.

With few exceptions, the fill encountered consisted of a gray-brown sand and gravel mix. The native material was a red brown silt-clayey silt with gray desiccation cracks. No photoionization detector (PID) readings were detected. Additional observations cited in the boring logs (Appendix F) are summarized below and in Table 2-4.

In AOC-1, there is 1 ft to 2 ft of topsoil over 3 ft to 7 ft of fill overlying native material comprised of silty clay. Boring SB-57-20 had a thin layer of asphalt at near the surface. Staining was observed in the fill material at borings SB-56-20, SB-72-20, SB-74-20, SB-76-20, and SB-77-20. However, no odors were detected.

At AOC-4, there was 1 ft of concrete over 5 to 6 ft of fill, followed by native material without desiccation cracks. No staining was detected; however, there was a slight odor at 5 to 6 ft bgs in SB-13-20.

At AOC-7 and AOC-8, concrete (when encountered) was 1 ft thick followed by fill that ranged from 4 to 11.5 ft thick; sometimes through the entire length of the boring. Native material (when encountered) was beneath the fill. No staining or odors were detected.

At AOC-9, there was 1 ft of concrete over 0.5 ft of gray fill, followed by red brown silt. No staining or odors were detected.

At AOC-10, the upper section consisted of 4 to 12 ft of brown fill; sometimes through the entire length of the boring. Native material (when encountered) was beneath the fill. No staining or odors were detected.

At AOC-11, there was 1 ft of concrete or fill over red brown silt. Concrete was encountered in the northern borings, whereas fill was found in the two southern borings. No staining or odors were detected.

At AOC-12 and AOC 13, concrete (when encountered) was 0.5 to 1.3 ft thick followed by fill that ranged from 2 to 12 ft thick; sometimes through the entire length of the boring. Native material (when encountered) was beneath the fill. Evidence of LNAPL was encountered at 7.9 ft bgs in SB-35-20 and at 7.5 to 8 ft bgs in SB-55-20. Staining was encountered in the fill at borings SB-39-20, SB-49-20, and SB-56-20. Odors were detected in the LNAPL and staining.

At AOC-14, there was 4 to 5 ft of fill over red brown clayey silt. No staining or odors were detected.

At AOC-15, there was 1 ft of concrete over 0.5 to 2 ft of gray fill, followed by red brown silt with gray desiccation cracks. Staining was observed in the fill at SB-20-20. No other staining or odors were detected.

At AOC-16, there was 1 ft of concrete over 0.5 ft of gray fill, followed by native material. Staining was observed in the fill at SB-20-20. No other staining or odors were detected.

At the Western Loading Docks, concrete (when encountered) was 0.5 ft thick, followed by fill that ranged from 3.5 to 4 ft thick, running the remaining length of the boring. No staining or odor was detected.

At the Eastern Loading Docks, concrete (when encountered) was 0.5 to 1 ft thick, followed by fill at two of the three borings that ranged from 2 to 3.5 ft thick, through the remaining length of the boring at SB-18-20. Native material was encountered at 0.5 ft bgs in SB-16-20 and 3 ft bgs at SB-17-20 and ran through the remaining lengths of each boring. No staining or odors were detected.

Between January 25 and 28, 2022, AECOM conducted surface soil sampling at 9 locations and surface and subsurface soil sampling at 23 boring locations throughout the Site (Figure 2-1) Table 2-2 provides the sampling rationale.

Surface soil samples were collected with a stainless-steel trowel or hand auger to a depth of up to 0.5 ft bgs.

Fourteen borings were advanced to a depth up to 12 ft bgs or native clay materials with a track-mounted 6610 DT Geoprobe® rig using a 2-inch macrocore sampler. Five borings along the northern portion of the parking lot were advanced with a stainless-steel bucket auger to a depth of 3 feet bgs. Four borings along the southern portion of the parking lot were advanced using a post-hole digger due to heavy snow cover which prevented access with the Geoprobe. Table 2-4 summarizes the boring information.

2.4 Surface Cover Contamination Delineation

A total of 25 concrete chip, wood chip and brick chip samples of staining on surfaces were collected during Phase 1 and analyzed for PCBs. The sample locations were based upon proximity to former spills and observations made during the field inspections and measurements. Samples were collected using a Bosch hammer drill advanced to a depth not to exceed 0.25 inches. The holes were drilled in a 1 ft square area beginning in the corners with additional holes being drilled based upon the amount of concrete materials needed to be generated for sample volume requirements. The material was collected and analyzed for PCBs to represent a specific area of surface staining. The drill bit was decontaminated using an Alconox and water mixture before moving to the next sample location. The sample locations are provided in Figure 2-1. Sample detail can be found in the Chip Sample Log (Appendix G) and are summarized below.

- Brick Chip Sample -01 (BC-01-20). Representative stained area of 100 ft by 30 ft.
- Concrete Chip Sample -02 (CC-02-20). Representative stained area of 40 ft by 40 ft.
- Concrete Chip Sample -03 (CC-03-20). Representative stained area of 10 ft by 10 ft.
- Concrete Chip Sample -04 (CC-04-20). Representative stained area of 10 ft by 15 ft.
- Brick Chip Sample -05 (BC-05-20). Representative stained area of 100 ft by 30 ft.
- Brick Chip Sample -06 (BC-06-20). Representative stained area of 75 ft by 75 ft.
- Concrete Chip Sample -07 (CC-07-20). Representative stained area of 25 ft by 10 ft.

- Concrete Chip Sample -08 (CC-08-20). Representative stained area of 20 ft by 20 ft.
- Concrete Chip Sample -09 (CC-09-20). Representative stained area of 25 ft by 50 ft.
- Concrete Chip Sample -10 (CC-10-20). Representative stained area of 10 ft by 10 ft.
- Brick Chip Sample -11 (BC-11-20). Representative stained area of 10 ft by 5 ft.
- Brick Chip Sample -12 (BC-12-20). Representative stained area of 30 ft by 10 ft.
- Brick Chip Sample - 13 (BC-13-20). Representative stained area of 12 ft by 20 ft.
- Brick Chip Sample -14 (BC-14-20). Representative stained area of 30 ft by 20 ft.
- Brick Chip Sample -15 (BC-15-20). Representative stained area of 30 ft by 40 ft.
- Brick Chip Sample -16 (BC-16-20). Representative stained area of 40 ft by 20 ft.
- Brick Chip Sample -17 (BC-17-20). Representative stained area of 90 ft by 25 ft.
- Brick Chip Sample -18 (BC-18-20). Representative stained area of 30 ft by 5 ft.
- Wood Chip Sample -19 (WC-19-20). Representative stained area of 20 ft by 10 ft.
- Concrete Chip Sample -20 (CC-20-20). Representative stained area of 12 ft by 40 ft.
- Wood Chip Sample -21 (WC-21-20). Representative stained area of 5 ft by 1 ft, 7 ft by 7 ft and 3 ft by 30 ft.
- Concrete Chip Sample -22 (CC-22-20). Representative stained area of 30 ft by 80 ft.
- Brick Chip Sample -23 (BC-23-20). Representative stained area of 50 ft by 30 ft.
- Brick Chip Sample -24 (BC-24-20). Representative stained area of 4 ft by 5 ft.
- Brick Chip Sample -25 (BC-25-20). Representative stained area of 5 ft by 3 ft.

A total of 19 impervious surface samples consisting of brick or concrete were collected from impacted areas previously identified as part of the Phase I PDI to further delineate the horizontal extent of impacts. Samples were analyzed for PCBs. The sample locations are provided in Figure 2-1. Table 1 in the PDIWP Addendum provides the sampling rationale.

2.5 Test Pits

Between December 7 and December 12, 2020, Nothnagle Drilling Inc. began the test pit excavation under the direction of AECOM. Nine test pits (TP-01 through TP-09) were proposed to be excavated in select locations of the site to further assess the potential for LNAPL migration from sewer locations and to further assess potential areas of former waste accumulation. Prior to test pit excavation, however, it was determined that TP-01 would be abandoned due to its proximity to the on-site transformer/ power substation. During all excavations, the subsurface soil was characterized and screened for the presence of impacts using a PID. At least one soil sample was taken from each test pit along with any additional samples if any impacts were detected and analyzed in accordance with the analytical schedule in Table 2-5A. The test pits were then backfilled with the excavated soil in the reverse order from how it was removed (i.e., last soil out was the first soil back in) such that soil stratigraphy remained generally the same as it was prior to excavation. The soil was compacted in approximately 2-ft lifts by using the backhoe bucket. The backhoe bucket was steam cleaned after each excavation and before moving to the next test pit location. Locations of test pits are provided in Figure 2-1. Observations from each test pit are documented in the Test Pit Logs (Appendix H), and described below:

- TP-01: Test pit excavation abandoned due to proximity to the on-site transformer/ power substation.
- TP-02: Excavated to a total depth of 3.5 ft bgs before the structural integrity of the walls began to fail due to the accumulation of water in the test pit beginning at 3.3 ft bgs. The test pit dimensions were 3.0 ft x 6.0 ft x 3.5 ft. There were no signs of impacted soil nor any elevated

PID readings (relative to background). One soil sample was collected from 3.3 ft to 3.5 ft (TP-2020-02-3.3-3.5).

- TP-03: Excavated to a total depth of 3.5 ft bgs before the structural integrity of the walls began to fail due to the accumulation of water in the test pit beginning at 2.7 ft bgs. The test pit dimensions were 3.0 ft x 6.0 ft x 3.5 ft. There was evidence of impacted soil which consisted of black staining through a seam of hardened clay at 1.3 ft bgs on the south wall of the test pit. There were no elevated PID readings. One soil sample was collected from 1.3 ft to 1.5 ft (TP-2020-03-1.3-1.5). There was further evidence of impacted soil through another thin seam of black staining at 3.3 ft bgs in the reddish-brown clay following grey mottling and desiccation cracks. There were no elevated PID readings. One soil sample was collected from 3.3 to 3.5 ft bgs (TP-2020-03-3.3-3.5).
- TP-04: Excavated to a total depth of 4.3 ft bgs before reaching refusal due to a possible steel or concrete subbase. The test pit dimensions were 2.8 ft x 8.0 ft x 4.3 ft. There was no evidence of any impacted soils throughout this test pit. One soil sample was collected from reddish brown clay with grey mottling from 4.0 to 4.3 ft bgs (TP-2020-04-4.0-4.3).
- TP-05: Excavated to a total depth of 3.0 ft bgs before the structural integrity of the walls began to fail due to the accumulation of water in the test pit beginning at 2.4 ft bgs. The test pit dimensions were 3.0 ft x 7.0 ft x 3.0 ft. There was no evidence of any impacted soils throughout this test pit. One soil sample was collected from reddish brown clay with grey mottling from 2.4 to 3.0 ft bgs (TP-2020-04-2.4-3.0).
- TP-06A: Excavated to a total depth of 6.0 ft bgs, reaching target depth. TP-06A is located roughly 3.5 ft south of MH-119 which contains 8 inches of LNAPL. The test pit dimensions were 3.0 ft x 7.0 ft x 6.0 ft. Below the first layer of brick, at 0.4 ft bgs, there was a strong petroleum odor coming from the mortar layer between the brick and concrete layer. However, there was no other evidence contamination or any elevated PID hits. One soil sample was collected from 0.4 to 0.5 ft bgs (TP-2020-06A-0.4-0.5). There was no further evidence of impacted soils throughout this test pit. Water was present at 3.0 ft bgs.
- TP-06B and TP-06C: Excavation at these two test pits was attempted, however both were abandoned due to an underground vault at 1.2 ft bgs. TP-06B, the original test pit, was located roughly 9 ft north of MH-121, which contains 3 inches of LNAPL. TP-06C, which was to replace TP-06B, was located roughly 6 ft south of MH-120, which contains 6 inches of LNAPL.
- TP-06D: Excavated to a total depth of 4.8 ft bgs before reaching refusal due to a possible steel or concrete subbase. TP-06D was located roughly 11 ft east from MH-120 and roughly 4.5 ft west from MH-121. MH-120 and MH-121 contain 6 and 3 inches of LNAPL, respectively. TP-06D's total dimensions were 3.0 ft x 6.0 ft x 4.8 ft. Water began accumulating in TP-06D at 4.5 ft bgs. At 4.7 to 4.8 ft bgs, there was evidence of impacted soils due to tar/oil staining on the reddish-brown clay with a strong petroleum odor. There was a PID hit of 0.5 ppm, just above background. One soil sample was collected for full TCLP parameters from 4.7 to 4.8 ft bgs (TP-06D-4.7-4.7).
- TP-07: Excavated to a total depth of 4.6 ft bgs before the structural integrity of the walls began to fail due to the accumulation of water in the test pit beginning at 3.0 ft bgs. The test pit dimensions were 2.8 ft x 12.0 ft x 4.6 ft. At 2.8 to 3.3 ft bgs, there was evidence of impacted soils due to heavy staining on the sandy fill with a strong petroleum odor and a heavy sheen on the accumulated water. PID readings ranged from 1.2 to 5.0 ppm. One soil sample was collected from 2.8 to 3.3 ft bgs (TP-07-2.8-3.3).
- TP-08: Excavated to a total depth of 6.0 ft bgs, reaching target depth. TP-08 was located roughly 2.5 ft south from MH-59 which contained 3 to 4 inches LNAPL. The total dimensions were 3.0 ft x 11.0 ft x 6.0 ft. At 1.35 to 1.5 ft bgs, there was evidence of impacted soils due to slight black staining on the sand on the south side of the test pit, however there were no elevated

PID readings. One soil sample was collected from 1.35 to 1.5 ft bgs (TP-08-1.35-1.5). There was evidence of impacted soil through black staining at 2.5 ft bgs in the reddish-brown clay following grey mottling and desiccation cracks. However, there were no elevated PID hits. One soil sample was collected from 2.3 to 2.5 ft bgs (TP-2020-08-2.3-2.5).

- TP-09: Excavated to a total depth of 4.3 ft bgs before the structural integrity of the walls began to fail due to the accumulation of water in the test pit beginning at 2.2 ft bgs. The test pit dimensions were 4.0 ft x 13.0 ft x 4.3 ft. There was no evidence of any impacted soils throughout this test pit. One soil sample was collected from the top layer of silty fill, from 0.0 to 0.2 (TP-2020-09-0.0-0.2) due to all the other subsurface layers containing matrixes composed almost entirely of stone.

2.6 Surface Water

Surface water was collected from five locations (SW-2002-1 through SW-2020-5) shown in Figure 2-2. The samples were analyzed for SVOCs, pesticides, PCBs, metals, and dissolved metals to determine how the surface water would need to be treated and disposed.

2.7 Groundwater

Groundwater was collected from sixty-one monitoring wells shown in Figure 2-3. The samples were analyzed for total PCBs and dissolved PCBs as recommended by the USEPA during a teleconference in August 2021. As recommended by AECOM, select samples from monitoring wells were also analyzed for PCB homologs to determine whether PCBs in groundwater are the result of particulate matter or are in the dissolved phase. These samples were analyzed in accordance with the analytical schedule in Table 2-5B. Monitoring well locations MW-A and AOC-12-MW-B were not sampled because the wells could not be located beneath the extensive snow and ice cover. Historically, PCBs were not detected in wells MW-A and AOC-12-MW-B. Purge logs can be found in Appendix I.

Depth to water data was collected from the aforementioned wells prior to sampling. A groundwater elevation summary is provided in Table 2-6 and elevation contours are provided in Figures 2-4 (shallow), and 2-5 (intermediate). Since depth to water data was only collected from two (2) deep zone wells, elevation contours for the deep zone could not be generated.

2.8 Data Deliverables and Data Validation

Tables 2-5A and 2-5B summarize the sample analytical program and associated quality control samples. Category B data deliverables were provided by the laboratory for all analytical data except for the asbestos results. All groundwater, soil, surface water, concrete, brick, and wood analytical data were validated and Data Usability Summary Reports (DUSR) were prepared (Appendix J).

A limited review (i.e., forms only) was performed for sewer sediment and sewer water and summarized in a memo (Appendix J). Sewer sediment and sewer water received a lesser review because the results will only be used for treatment and discharge/disposal purposes.

Sample data was submitted to the NYSDEC in the Department's EQuIS electronic data deliverable (EDD) format after the data was validated/reviewed.

2.9 Community Air Monitoring Program

During the intrusive subsurface investigation activities (i.e., soil boring, tests pits, etc.), Community Air Monitoring Plan (CAMP) monitoring was conducted in accordance with the PDIWP. Data and notes from this monitoring are included in Appendix K. No action levels were exceeded during the course of the subsurface investigation activities.

2.10 Investigation-Derived Waste Management

All investigation-derived waste (IDW), including purge and decontamination water and soil spoils from borings, was drummed for disposal. Drums were categorized and removed from the Site after analytical results from the environmental sampling are received from the laboratory. Copies of the waste manifests for the IDW are included in Appendix L.

2.11 Engineering Survey

A survey was completed after each phase of sampling that included the boring locations, test pit locations, MH inverts, other environmental sample locations, edges of the pavement, erosional features, key grade changes, and other notable features. The survey tied into the existing site survey and basemap. Data from this survey was entered in the project specific database, which was then used to generate maps for this PDIR.

3 PRE-DESIGN INVESTIGATION RESULTS

The following sections discuss the analytical results for the PDI fieldwork at the Site. This section summarizes and describes the findings of this PDI and incorporates sampling information completed to date for all environmental media that were evaluated. As part of this PDI, samples were collected from various environmental media to delineate the extent and volume of impacted environmental media and to determine the areas that require remedial action in accordance with the ROD.

3.1 Standards, Criteria and Guidance Values

For each medium, detected concentrations of individual contaminants were compared to applicable standards, criteria, and guidance values (SCGs). The SCGs determined for the individual media are identified below.

3.1.1 Asbestos

New York State Regulation 12 NYCRR Part 56-2.1(p) defines ACM as "Any material containing greater than one percent (1%) of asbestos, also known as Asbestos Material".

3.1.2 Impervious Surfaces (Concrete, Brick, Asphalt, and Wood Core)

Porous surfaces (concrete and brick) will be remediated to the following low-occupancy standards, given at 6 NYCRR Part 371.4 (e) and 40 CFR 761.61(a)(4)(i)(B).

3.1.3 Soil

Two sources of soil SCGs are appropriate for this Site: 6 NYCRR Part 375, Environmental Remediation Programs, Subpart 375-6, Remedial Program Soil Cleanup Objectives, effective December 14, 2006 (SCOs); and NYSDEC Commissioner Policy (CP), CP-51/Soil Cleanup Guidance, effective October 21, 2010 (CP-51). CP-51 supplements Part 375 by providing criteria for contaminants where values were not included in Part 375. Hereafter mention of Part 375 includes incorporation of CP-51 criteria values.

Per CP-51, for non-residential use sites (e.g., industrial use sites) where the ecological resources SCOs (ESCOs) are not applicable, a remedial program which achieves a soil cleanup level of 500 ppm for total PAHs for all subsurface soil is being utilized.

The property is zoned General Industrial District. The zoning classification for the property is a consideration in the determination of the appropriate soil SCGs. Therefore, Part 375 Industrial Use criteria was used to evaluate the soil sample results.

The soil results are also compared to 6 NYCRR Part 371.4 (e) - Wastes Containing PCBs [6 NYCRR Part 371.4 (e)], and 40 CFR Part 761 – PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.

For the purpose of this PDI and discussion of the remediation areas, surface soil is considered to be soil that extends from the surface to 1 ft bgs. Subsurface soil is considered to be soil that is deeper than 1 ft bgs.

3.1.4 Sewer Sediments, Sewer Water and LNAPL

There are no specific criteria for sewer sediment contaminant concentrations. In accordance with the March 2020 ROD, all sewer sediments will be removed from the sewer network at the Site during remedial construction. Sewer sediments will be stabilized, dewatered, and disposed of based upon the specific waste characteristics. The sewer sediment results are compared to the criteria cited in 6 NYCRR Part 371.3 (e) Identification and Listing of Hazardous Wastes Contaminant Concentration for Toxicity [6

NYCRR Part 371.3 (e)]. Results were also evaluated using the alternative 20 times approach to the actual toxicity characteristic leaching procedure (TCLP) extraction process. With the 20 times approach, a factor of 20 is applied to the actual soil contaminant concentration to give a maximum possible contaminant concentration obtainable in the leachate.

The sewer sediment results are also compared to 6 NYCRR Part 371.4 (e) - Wastes Containing PCBs [6 NYCRR Part 371.4 (e)], and 40 CFR Part 761 – PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.

Sewer/wastewater contaminants were compared to Town of Tonawanda POTW discharge requirements. LNAPL analytical data were compared to its identification and specific waste characteristics.

3.1.5 Surface Water

Surface water ponds on the surface across the Site. Also, some runoff water has been observed flowing from the ponded area on the east side of AOC-1 across the sidewalk onto Kenmore Avenue. For the purpose of this PDIR, it is assumed that during construction water removed from the sewer network, standing surface water, and other construction-related water (e.g., decontamination, etc.) will be treated on-site prior to discharge to the POTW. As such, surface water analytical data was compared to the POTW discharge criteria.

After construction of the new storm water sewer system, site runoff water will need to meet applicable discharge requirements for the Town of Tonawanda Outfall. Surface water will need to be characterized following construction of the new storm sewer network to verify that surface water meets the applicable discharge criteria for the Town of Tonawanda Outfall prior to discharge.

Information from the Town of Tonawanda is in progress and specific discharge criteria are not yet available. At this time, the SCGs for surface water are considered to be the Class A standards and guidance values presented in NYSDEC TOGS 1.1.1. The most stringent of the following protection types were applied: Source of Drinking Water [H(WS)], Human Consumption of Fish [H(FC)], Fish Propagation [A(C)], Fish Survival [A(A)], Wildlife Protection [W] or Aesthetic [E]. The Niagara River is the nearest body of water to the Site. The Niagara River is identified as a "Class A-Special" body of water, as per 6 NYCRR Part 837.4, Table I.

3.1.6 Groundwater

The SCGs for groundwater are the Class GA standards and guidance values presented in NYSDEC TOGS 1.1.1. The groundwater samples results are also compared to TSCA decontamination standard in 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use. These groundwater SCGs are included on the groundwater analytical tables.

3.2 Analytical Results

Analytical results from this PDI are summarized in Tables 3-1 through 3-8. Figures 3-1 through 3-30 presents the analytical results from this PDI and results from the previous investigations presented in Appendix A. The figures and tables include comparison of the results to applicable SCGs. Complete results are included in the DUSR (Appendix J), and asbestos laboratory reports in Appendix M.

3.2.1 Asbestos Sampling Results

According to the lab data presented in Appendix M, the black sewer sediment collected from manholes MH-64 and MH-53-2 is ACM. The data also shows that asbestos was not detected in any of the sewer water samples collected during this PDI. The previously completed asbestos survey and analytical results are included in the RI Report (Appendix A).

3.2.2 Impervious Surfaces (Concrete, Brick, Asphalt, and Wood Core)

No contaminants were found in asphalt samples. Table 3-1 presents the PDI sample results summary, which shows that PCBs exceeded their TSCA criteria in the brick samples collected from BC-15-20, the concrete sample collected from CC-08-20 and the wood core sample collected from WC-21-20. PCBs exceeded the Industrial Use criteria in the brick sample collected from BC-12-20. No other exceedances were detected.

Figure 3-1 depicts the total PCB analytical results from investigations completed to date in impervious materials across the Site. Reported concentrations of total PCBs above 25 ppm occurred within AOCs 2, 3, 4, 13 and 15. As depicted in Figure 3-2, the estimated total area of impervious surface contamination is estimated to be 15,641 square feet (sq ft). Assuming an average thickness of 1 foot (ft) of contaminated materials, this corresponds to approximately 579 cy of concrete, brick, or wood brick requiring excavation and off-site disposal at an approved facility.

3.2.3 Surface Soil Sampling Results

The results from the surface soil analyses, summarized in Tables 3-2A through 3-2C, show the following:

- PCBs in the 0 to 1 ft bgs interval exceeded industrial use criteria (25 mg/kg) in the samples collected from locations SB-42-20, SB-44-20, SB-45-20, SB-51-20, SB-53-20, SB-68-20, SF-13-20, SF-37-21 and TP-06A. The 50 mg/kg TSCA limit was exceeded at locations SB-44-20, SB-45-20, SB-51-20, SB-68-20, SF-13-20, SF-37-21 and TP-06A.
- SVOCs in the 0 to 1 ft bgs interval exceeded the Industrial Use criteria in the samples collected from locations SB-48-20, SB-94-21, SB-97-21, SF-20-20, SF-21-20, SF-26-20, SF-27-20, SF-28-20, SF-29-20, SF-30-20, SF-31-20, SF-33-20, SF-34-20 and TP-09. Total SVOC concentrations greater than 500 mg/kg were found at locations SF-20-20 and SF-21-20.
- For metals in the 0 to 1 ft bgs interval, arsenic exceeded Industrial Use criteria in TP-06A.
- No VOCs were detected in surface soils at concentrations exceeding Industrial Use criteria.

Figure 3-3 shows the surface soil exceedances detected from this PDI as well as previous investigations. In the eastern portion of the Site, including the parking lot area and AOC-1, the majority of samples showed the presence of benzo(a)pyrene, dibenz(a,h)anthracene, or arsenic slightly above their Industrial Use SCOs. There were a few isolated areas along the GM Boulevard side, south of the fenced area of the Site boundary, that exceeded Industrial Use SCOs. An isolated area north of the Administration Building also shows benzo(a)pyrene and benzo(b)fluoranthene above their respective Industrial Use SCOs. The landscaped area with a few conifers north and east of the Administration Building was regularly maintained as a mowed lawn area during former plant operations. Only the northwestern portion of this area is currently covered with broken concrete, brick, and miscellaneous fill materials at the surface. The vast majority of the surface covertype was mowed lawn without any fill material. Based upon the analytical results from samples collected from this area the impacted area with PAHs above Industrial Use SCOs is limited in aerial and vertical extent.

Within the western industrial portion of the Site, surface soil sample results show scattered areas with PAHs, total PCBs, and arsenic above their respective Industrial Use SCOs. Several of the samples reported total SVOC concentrations above 500 mg/kg.

Based upon the analytical results, the estimated area of surface soil excavation in the eastern portion of the site is approximately 25,258 sq ft with an estimated volume of 937 cy. The estimated area of excavation in the western portion of the site is approximately 60,368 sq ft with an estimated volume of 1,353 cy. Across the entire Site the estimated surface soil volume is approximately 85,626 sq ft with an estimated volume of 2,290 cy based on a depth of 1 ft (Figure 3-2).

3.2.4 Subsurface Soil Sampling Results

The results for subsurface soil sample analyses are summarized in Tables 3-3A through 3-3C. The results show the following:

- In the interval greater than 1 ft bgs, PCBs exceeded Industrial Use criteria (25 mg/kg) in the samples collected from borings SB-28-20, SB-29-20, SB-41-20, SB-49-20, SB-51-20, SB-53-20, SB-59-20, SB-60-20, SB-69-20, SB-70-20, SB-86-21, SB-89-21, SB-92-21, SB-93-21, SF-03-20, SF-16-20, TP-02, TP-03 and TP-08. PCBs exceeded TSCA limit (50 mg/kg) in the sample locations SB-29-20, SB-41-20, SB-59-20, SB-86-21, SB-92-21, SB-93-21, SF-16-20, TP-02, TP-03 and TP-08. These exceedances were detected at depths to 6 ft bgs.
- Several PAHs exceeded Industrial Use criteria were found in test pits TP-03 and TP-06D at depths between 3.3 ft and 4.8 ft bgs and soil borings SB-99-21 and SB-101-21 between 1 and 3 feet bgs. All total SVOC concentrations were below 500 mg/kg. All TCLP SVOC results were non-detect.
- No VOCs were detected at concentrations exceeding Industrial Use criteria. The metal arsenic exceeded Industrial Use criteria in soil boring SB-101-21 between 2-2.5 feet bgs. Several metals exhibited concentrations exceeding toxicity limits when applying the 20-times rule, however, all TCLP VOC and TCLP metal analyses were below toxicity limits.

Figure 3-4 shows the subsurface soil exceedances detected from this PDI as well as investigations completed to date. The total PCB and total SVOC concentrations in subsurface soils collected from this PDI, and investigations completed to date, are presented in Figures 3-5 through 3-18, respectively. These figures are segregated by 2 ft intervals (i.e., 0-2 ft, 2-4 ft, 4-6 ft, 6-8 ft, 8-10 ft, 10-12 ft, and 12-28 ft bgs). The data presented in these figures are used to define excavation areas and depths, in both surface soils and subsurface soils.

In the eastern portion of the site and scattered across AOC-1, contaminants detected in samples above Industrial Use SCOs included total PCBs, benzo(a)pyrene, arsenic, and mercury. In AOC-1, there were no samples with total SVOC concentrations above 500 ppm. Several samples reported total PCB concentrations above 100 ppm in the landfill area of AOC-1. AOC-1 will be covered with a soil cover. The subsurface soil impacted in AOC-1 Front Forty, as depicted in Figure 3-2 will be excavated for off-site disposal. The estimated area of subsurface excavation is approximately 3,121 sq ft, having an estimated volume of 325 cy based on the depths depicted in Figure 3-2.

Within the western industrial portion of the site, subsurface soil sample results reported PAHs, total PCBs, and arsenic above their respective Industrial Use SCOs scattered across the area. Several of the samples reported total SVOC concentrations above 500 mg/kg. The estimated area of excavation is approximately 11,702 sq ft, having an estimated volume of 957 cy based on the depths depicted in Figure 3-2.

The overall estimated area of subsurface soil excavation for the entire Site is approximately 14,823 sq ft, having an estimated volume of 1,282 cy based on the depths depicted in Figure 3-2. It is noteworthy that groundwater is present in the fill zone at depths of 1 to 6 ft bgs and in the till zone between 2 to 15 ft bgs, so a significant portion of the subsurface soils are present in the saturated zone.

3.2.5 Sewer Sediments, Sewer Water, and LNAPL Sampling Results

A complex network of utilities underlies the Site. Available information indicates the presence of electrical lines, storm sewers, sanitary sewers, non-contact cooling water, perforated pipe, industrial waste lines, fire protection, and mill water lines. Surface expressions of these systems consist of MHs, CBs, with current and former roof drains. The available information indicates that storm and sanitary sewers ran from the eastern, upgradient portion of the Site to the former IWTP on the western side of the Site. Discharge from the treatment plant was to the west via a storm sewer. As previously stated, sewers leading off Site

have been plugged. Accessible MHs and CBs were opened and inspected as part of investigations completed to date. Sewer sediment samples were collected from select MHs and CBs that contained a recoverable volume of sewer sediment. Manholes MH-119 and MH-120 appear to be associated with the IW line, and manholes MH-117, MH-126, and MH-137 were associated with the sanitary sewer. Figure 3-19 depicts qualitative information obtained as part of investigations completed to date showing MH and CB sizes, depths, piping sizes if measurable, sewer sediment characteristics, and other notable observations including presence of LNAPL and thickness.

Sewer Sediment

The results from the PDI sewer sample analyses are summarized in Table 3-4, which shows the following:

- Chromium, lead, and selenium concentrations exceeded the 20 times TCLP criteria in the several samples however, TCLP analytical results were all below limits for these metals.
- Reactive sulfide exceeded the hazardous-waste criteria in the sample collected from MH-103V.
- PCBs exceeded their TSCA criteria in the samples collected from MH-103V and MH-107.

The total PCB and total SVOC concentrations and in sewer sediment collected from this PDI, as well as previous investigations is presented in Figures 3-20 and 3-21 respectively.

Sewer sediment samples from MHs and CBs contained SVOCs, PCBs, and several metals above Industrial Use SCGs in the vast majority of the sewer sediment samples collected, and therefore the entire Site's sewer system is impacted with these contaminants. The predominance of PCBs in MHs and CBs in the western industrial portion of the Site suggests impacts along the sanitary sewer lines in that area. PCB concentrations in the western MHs/CBs ranged from non-detect to 880 mg/kg.

The estimated quantity of contaminated sewer sediments for the various waste streams in the sewers is difficult to quantify because many of the sewer pipe laterals are not visible or measurable in most of the MHs. However, representative sewer sediment thicknesses were measured at most of the MH and CB locations and an estimated volume will be included in the Remedial Design.

Storm Sewer/Wastewater

The storm sewers analytical results, summarized in Table 3-5, show the following:

- PCBs exceeded Class A criteria and Town of Tonawanda discharge limits in the samples collected from locations DI-8-2020, MH-058, MH-059, MH-103V, MH-107, MH-108, MH-132 and MH-53-2.
- SVOCs exceeded Class A criteria in the sample collected from location MH-107.
- Lead exceeded Class A criteria in MH-107 and MH-305, but was below Town of Tonawanda discharge limits.

Figure 3-22 shows the sewer/wastewater exceedances detected from this PDI as well as previous investigations. The total PCB and total SVOC concentrations in sewer water collected from this PDI, and investigations completed to date, are presented in Figures 3-23 through 3-24. Based upon the analytical data, all surface water, sewer water, and construction water must be pre-treated prior to discharge to the Town of Tonawanda POTW facility to meet their discharge requirements.

LNAPL

Table 3-6 presents the PDI sample results summary, which shows that PCBs exceeded their TSCA criteria in the sample collected from MH-119. No other exceedances (TSCA or hazardous waste) were detected.

During the RI, LNAPL was present in manholes MH-59, MH-119, MH-120, and MH-121 (See Figure 3-25). As determined during the RI, manholes MH-119 and MH-120 appear to be associated with the IW line. The LNAPL sample from MH-119 was identified as an unknown petroleum hydrocarbon, and the sample from MH-120 as motor oil. Total PCBs exceeded the TSCA criteria in the sample collected from MH-119. Manhole MH-59, located on the southern side of the Site, is associated with the storm sewer system. The analytical results were inconclusive, identifying the sample as an unknown hydrocarbon. LNAPL, identified as No. 2 fuel oil, was found in monitoring well AOC-14-MW-21I. It was initially suspected that during drilling as part of the RI activities, the drill rig might have punctured a fuel pipeline, resulting in a release of the product into the formation. A subsequent test trench excavation (advanced in November 2018) encircling the well did not reveal piping or an obvious LNAPL source.

3.2.6 Surface Water Sampling Results

Surface water ponds on the surface across the Site. Also, some runoff water has been observed flowing from the ponded area on the east side of AOC-1 across the sidewalk onto Kenmore Avenue. Figure 3-22 depicts the contaminants detected in surface water from this PDI as well as previous investigations above the Town of Tonawanda POTW discharge criteria. The total PCB and total SVOC concentrations in surface water samples are presented in Figures 3-26 and 3-27, respectively.

The surface water results, summarized in Table 3-7, show the following:

- PCBs exceeded Class A criteria in the samples collected from locations SW-2020-1, SW-2020-4, and SW-2020-5. They exceeded Town of Tonawanda discharge limits in SW-2020-1 and SW-2020-4.
- SVOCs exceeded Class A criteria in the sample collected from location SW-2020-1.
- Metals exceeded Class A criteria in the samples collected from location SW-2020-1 and SW-2020-5. None of the metals exceeded Town of Tonawanda discharge limits.

After construction of the new storm water sewer system, site runoff water will need to meet applicable discharge requirements for the Town of Tonawanda Outfall. Based upon the analytical data from investigations to date, several SVOCs and several metals exceed Class A SCGs in the Site's surface water samples, including parking lot water, ponded areas within the industrial portion of the Site, and from the drainage swale adjacent to Kenmore Avenue. It is anticipated that remedial actions, completed as part of the proposed construction, will reduce the concentrations of contaminants in post-construction surface water. Surface water control will be necessary during remedial construction to prevent the migration of contaminated surface water. Surface water will need to be characterized following construction of the new storm sewer network to verify that surface water meets the applicable discharge criteria for the Town of Tonawanda Outfall prior to discharge. Based upon the analytical data, all surface water, sewer water, and construction water must be pre-treated prior to discharge to the Town of Tonawanda POTW facility to meet their discharge criteria.

3.2.7 Groundwater Sampling Results

The results for groundwater sample analyses are summarized in Table 3-8 and shown on Figures 3-28, 3-29 and 3-30. The results show the following:

PCBs were detected in the unfiltered groundwater samples at locations AOC-03-PZ-09, AOC-03-PZ-10, AOC-09-PZ-02, AOC-13-MW-02I, AOC-13-MW-02S, AOC-13-MW-19S, and AOC-16-PZ-08 at concentrations ranging from 0.29 (AOC-16-PZ-08) to 23.8 µg/L (AOC-13-MW-02S). Samples with concentrations that exceeded the TSCA unrestricted use decontamination standard for water (0.5 µg/L) (i.e., AOC-03-PZ-09, AOC-03-PZ-10, AOC-13-MW-02I, AOC-13-MW-02S, and AOC-13-MW-19S) are located in AOC-3 and AOC-13, and such concentrations were not detected in downgradient wells along the property boundary. All field filtered sample aliquots were non-detect for PCBs in groundwater samples submitted for Aroclor analysis.

Samples with concentrations that exceeded the TSCA unrestricted use decontamination standard for water and a cross-section of wells across the site (i.e., AOC-01-MW-10I, AOC-01-MW-10S, AOC-01-MW-11S, AOC-01-MW-13I, AOC-01-MW-13S, AOC-08-MW-18S, AOC-10-MW-16, AOC-16-MW-E, MW-17I, MW-22S, MW-F, and MW-J) were analyzed for PCB homologs. Filtered samples from AOC-13-MW-02I, AOC-13-MW-02S and AOC-13-MW-19S which are monitoring wells with the highest unfiltered PCB concentrations were also analyzed for dissolved PCB homologs to confirm that the dissolved phase concentrations are below groundwater SCGs.

Homologs identified in samples AOC-03-PZ-09, AOC-03-PZ-10, AOC-13-MW-02I, AOC-13-MW-02S, and AOC-13-MW-19S included dichlorobiphenyls, trichlorobiphenyls, tetrachlorobiphenyls, pentachlorobiphenyls, and/or hexachlorobiphenyls with total PCB homolog concentrations consistent with the total PCB concentrations.

The only detection in the dissolved phase homolog analysis was for AOC-13-MW-02S with tetrachlorobiphenyls at 0.066 µg/L, below the groundwater SCG of 0.09 µg/L and TSCA unrestricted use decontamination standard of 0.5 µg/L.

The relative abundance of homolog concentrations in the unfiltered samples support the assumption that the detections are driven by suspended solids, as they seem to match those of Aroclor 1242 and 1248. Based on the homolog analysis, the relative abundance of trichlorobiphenyls is lower than would be expected of a dissolved-phase issue (Table 3-9). Based on the low concentrations of PCBs in dissolved phase and the low concentrations of PCBs in wells along the downgradient property boundary, it is concluded that there is not a dissolved-phase PCB plume at the site.

3.2.8 Nearby Off-Site Soil Sampling Results

As part of the railroad drainage lines investigation performed by CRA (Section 1.2.4) and the sewer line re-route and abandonment work (Section 1.2.7), results from samples submitted to analytical laboratories from off-site locations are shown on Figures 3-31 and 3-32. The results from all off-site samples collected are summarized in Table 3-10, which shows the following:

- PCBs exceeded Industrial Use criteria in off-site sample location RR-024A, near the southwestern corner of the property.
- PCBs exceeded Industrial Use criteria in off-site sample location RR-210A near the northwestern corner of the property.

All other sample locations results were below Industrial Use limits.

Although results of CRA's investigation confirmed there is minimal, if any, vertical migration of PCBs from the railroad drainage lines, it was suggested there may be horizontal migration of PCBs in some areas along the railroad drainage lines. At the offsite locations where PCBs exceeded Industrial use criteria, adjacent sample locations exhibited significantly lower concentrations or were non-detect for PCBs or SVOCs, suggesting those locations are not the result of horizontal migration. It is more likely the impacted soils were the result of isolated spills along the railroad lines.

4 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

4.1 Summary and Conclusions

Site Conditions

The Tonawanda Forge site is a former manufacturing facility located in the Town of Tonawanda, New York. The approximately 34.8-acre Site is relatively flat and primarily covered with asphalt, concrete and former building foundations and four buildings. The eastern portion of the Site, identified as AOC 1, is a grass covered landfill with an elevation approximately 6 ft above the surrounding grade.

The Site is zoned as General Industrial District and is surrounded on the north, west, and south sides by industrial facilities. Kenmore Avenue borders the Site on the east. The reasonably anticipated future land use is industrial.

Prior to January 2012, the storm sewer lines were blocked where they flowed into the GM storm sewer. Sewers previously flowed into the GM-Tonawanda facility storm water system and ultimately discharged through GM Powertrain Tonawanda Engine Plant's SPDES permitted Outfall 001 on the Niagara River. The sewer system at the Site has been plugged at downgradient locations to inhibit potential offsite migration of Site impacts. Also, MHs, CBs, and some sewer line sections have been plugged at several locations across the Site. As result, precipitation typically ponds on the ground surface following rain events or snow melt.

Subsurface information indicates that the following textural units underlie the Site, from the surface downward: Fill, Silty Clay Till, Lacustrine Clay, and bedrock. Bedrock was not encountered in the on-site borings, which were advanced to a maximum depth of 30 ft. The unconsolidated units are described as follows:

- The Fill varies in thickness from 0 to approximately 14 ft thick and consists of a heterogeneous mixture of black, brown, and gray silt, sand, and gravel containing trace to some amounts of brick, crushed stone, foundry sand, wood, and slag. The thicker fill areas (i.e., greater than 8 ft) are associated with former basements, vaults, utility trenches, and remediated areas.
- The Silty Clay Till extends from 1 and 14 ft bgs down to 24 ft bgs. This unit consists of brown to reddish brown silty clay with traces of silt and fine, rounded gravel. The till was moist and stiff to hard in consistency. Discontinuous brown to gray sand lenses observed within the Silty Clay Till Unit vary in thickness from a few inches up to 4 ft.
- The Lacustrine Clay occurs beneath the Silty Clay Till at depths ranging from 24 to 30 ft bgs. The Lacustrine Clay was observed to be a reddish brown to gray-brown, moist, and soft to medium stiff in consistency.

Overall groundwater flow in the perched groundwater is toward the west with a horizontal hydraulic gradient that ranges from 0.0001 to 0.0336 ft/ft. Horizontal hydraulic conductivity obtained from field testing indicates values ranging from 3.73×10^{-5} cm/sec to 8.07×10^{-3} cm/sec.

A relative high in the groundwater surface occurs in the eastern portion of the site and is likely due to groundwater recharge through the fill in AOC 1. Groundwater flow in the Silty Clay Till across the western portion of the site is generally toward the west. The horizontal hydraulic gradients in the Silty Clay Till range from 0.0037 to 0.0226 ft/ft. Horizontal hydraulic conductivity values for the Silty Clay Till range from 7.11×10^{-8} cm/sec to 5.47×10^{-3} cm/sec with the higher hydraulic conductivity associated with sand lenses within the unit.

4.1.1 Summary of Analytical Results

4.1.1.1 Asbestos

ACM is present on the ground surface in every AOC except for AOC-1. ACM was also determined to be present in sewer sediments and in some of the materials at the former wastewater treatment plant. Asbestos abatement of the former wastewater treatment plant will be necessary prior to demolition. The temporary wastewater treatment plant used during construction will need to filter ACM prior to discharge to the Town of Tonawanda POTW.

4.1.1.2 Impervious Surfaces (Concrete, Brick, Asphalt, and Wood Core)

The estimated total area of impervious surface contamination is estimated to be 15,641 sq ft. Assuming an average thickness of 1 ft of contaminated impervious materials, this corresponds to approximately 579 cy of concrete, brick, or wood brick requiring excavation and off-site disposal in a hazardous landfill or comparable approved facility (see Figure 3-2).

4.1.1.3 Surface Soil

In the eastern portion of the Site, including the parking lot area and AOC-1, the majority of samples showed the presence of benzo(a)pyrene, dibenz(a,h)anthracene, or arsenic slightly above their Industrial Use SCOs. There were a few isolated areas along the GM Boulevard side, south of the fenced area of the Site boundary. An isolated area north of the Administration Building also reported benzo(a)pyrene and benzo(b)fluoranthene above their respective Industrial Use SCOs. The landscaped area with a few conifers north and east of the Administration Building was regularly maintained as a mowed lawn area during former plant operations. Only the northwestern portion of this area is currently covered with broken concrete, brick, and miscellaneous fill materials at the surface. The vast majority of the surface covertype was mowed lawn without any fill material. Based upon the analytical results from samples collected from this area the impacted area with PAHs above Industrial Use SCOs is limited in aerial and vertical extent. The estimated area of excavation in the eastern portion of the site is approximately 25,258 sq ft with an estimated volume of 937 cy based on a depth of 1 ft (see Figure 3-2).

Within the western industrial portion of the Site, surface soil sample results reported PAHs, total PCBs, and arsenic above their respective Industrial Use SCOs scattered across the area. Several of the samples reported total SVOC concentrations above 500 mg/kg. Based upon these results, the estimated area of excavation in the western portion of the site is approximately 60,368 sq ft and an estimated volume of 1,353 cy based on a depth of 1 ft. The entire Site's surface soil excavation area is approximately 85,626 sq ft with an estimated volume of 2,290 cy based on a depth of 1 ft. (see Figure 3-2)

4.1.1.4 Subsurface Soil

Subsurface soil is considered to be soil that is deeper than one ft bgs. In the eastern portion of the site and scattered across AOC-1, contaminants detected in samples above Industrial Use SCOs included total PCBs, benzo(a)pyrene, arsenic, and mercury. In AOC-1, there were no samples with total SVOC concentrations above 500 ppm. Several samples reported total PCB concentrations above 100 ppm in the landfill area of AOC-1. Based upon these results, the overall estimated area of excavation is approximately 3,121 sq ft, having an estimated volume of 325 cy (see Figure 3-2).

Within the western industrial portion of the site, subsurface soil sample results reported PAHs, total PCBs, and arsenic above their respective Industrial Use SCOs scattered across the area. Several of the samples reported total SVOC concentrations above 500 mg/kg. Based upon these results, the overall estimated area of excavation is approximately 11,702 sq ft, having an estimated volume of 957 cy. The entire Site's subsurface soil excavation area is approximately 14,823 sq ft with an estimated volume of 1,282 cy based on excavation depths ranging between 1 ft and 5 feet. The overall estimated area of

excavation for the entire Site (impervious, surface, and subsurface material) is approximately 116,090 sq ft, having an estimated volume of 4,151 cy (see Figure 3-2). It is noteworthy that groundwater is present in the fill zone at depths of 1 to 6 ft bgs and in the till zone between 2 to 15 ft bgs, so a significant portion of the subsurface soils are present in the saturated zone.

4.1.1.5 Sewer Sediments, Sewer Water, and LNAPL

A complex network of utilities underlies the Site. Available information indicates the presence of electrical lines, storm sewers, sanitary sewers, non-contact cooling water, perforated pipe, industrial waste lines, fire protection, and mill water lines. Surface expressions of these systems consist of MHs, CBs, with current and former roof drains. Sewers leading off Site have been plugged.

Sewer Sediments

In accordance with the March 2020 ROD, all sewer sediments will be removed from the sewer network at the Site. Sewer sediments will be stabilized, dewatered, and disposed of based upon the specific waste characteristics. It is anticipated that the majority of sewer sediments will be characterized as TCSA hazardous for PCBs, and characteristic waste for reactive sulfide. The estimated quantity of contaminated sewer sediments for the various waste streams in the sewers is difficult to quantify because many of the sewer pipe laterals are not visible or measurable in most of the MHs.

Sewer sediment samples from MHs and CBs contained SVOCs, PCBs, and several metals above Industrial Use SCGs in the vast majority of the sewer sediment samples collected, and therefore the entire Site's sewer system is impacted with these contaminants. The predominance of PCBs in MHs and CBs in the western industrial portion of the Site suggests impacts along the sanitary sewer lines in that area. PCB concentrations in the western MHs/CBs ranged from non-detect to 880 mg/kg.

Chromium, lead, and selenium concentrations exceeded 20 times the Toxicity Characteristic Leaching Procedure (TCLP) limit in several sewer sediment samples. However, TCLP analytical results for these metals were all below limits. Reactive sulfide exceeded the hazardous-waste limit for reactivity in only one of 11 samples analyzed for reactivity; MH-103V.

LNAPL

LNAPL was present in manholes MH-59, MH-119, MH-120, and MH-121, and monitoring well AOC-14-MW-21I. Manholes MH-119 and MH-120 appear to be associated with the IW line. Manhole MH-59, located on the southern side of the Site, is associated with the storm sewer system. LNAPL in MH-59 was identified as an unknown hydrocarbon. LNAPL in MH-119 was identified as an unknown petroleum hydrocarbon, and the sample from MH-120 as motor oil. Total PCBs exceeded their TSCA criteria in the sample collected from MH-119. LNAPL, identified as No. 2 fuel oil, was found in monitoring well AOC-14-MW-21I. The November 2018 test trench excavation encircling AOC-14-MW-21I did not reveal piping or an obvious LNAPL source. The LNAPL was extracted from the well as part of an IRM and LNAPL has not been observed in the well since May 2019.

Sewer Water

Sewer/wastewater contaminants detected in samples above Town of Tonawanda publicly owned treatment works (POTW) discharge requirements include PCBs. Based upon the analytical data, all surface water, sewer water, and construction water must be pre-treated prior to discharge to the Town of Tonawanda POTW facility to meet their discharge requirements.

Surface Water

Surface water does not drain, but ponds on the surface across the Site. Also, runoff water has been observed flowing from the ponded area on the east side of AOC-1 across the sidewalk onto Kenmore Avenue. Based upon the analytical data, all surface water, sewer water, and construction water must be pre-treated prior to discharge to the Town of Tonawanda POTW facility to meet their discharge criteria.

Groundwater

Based upon the 2022 groundwater sampling results, PCBs are not present in the dissolved phase at concentrations exceeding groundwater SCGs at the Site. The presence of infrequently detected and at generally low concentrations of PCBs in unfiltered groundwater is attributed to suspended solids in the samples.

4.2 Recommendations

Based on the investigation results discussed above, the limits of remediation waste have been largely delineated. AECOM will proceed with the PCB Cleanup Plan and the Remedial Design to be consistent with both TSCA and the NYSDEC Part 375 Commercial Soil Cleanup Objective (SCO), as given in Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375. Cleanup of soil and restriction of groundwater use is believed likely to be adequate to address remedial obligations at the site.

5 REFERENCES

AAM, *AAM Industrial Waste System* (AAM, April 15, 1999)

Blasland, Bouck & Lee, Inc. (BB&L), *Interim Corrective Measures Letter Report - Addendum I, American Axle & Manufacturing Tonawanda, NY Forge Plant* (BB&L, December 1998)

BB&L, *Interim Corrective Measures Letter Report - Addendum II, American Axle & Manufacturing Tonawanda, Tonawanda Forge Plant, Tonawanda, New York* (BB&L, June 1999)

BB&L, *Interim Corrective Measures Letter Report - Addendum III, American Axle & Manufacturing, Tonawanda Forge Plant, Tonawanda, New York* (BB&L, October 2001)

BB&L, 2002 *Investigation and Response Activities Summary Report, American Axle & Manufacturing Tonawanda, NY Forge Plant* (BB&L, November 2004)

CRA, Historic and Active *Railroad Drainage Line Subsurface Investigation, General Motors Powertrain Group, Tonawanda Engine Plant, Tonawanda, New York* (CRA, November 2000)

CRA, *Re-Routing and Abandonment Certification Repot, Storm Sewer Segment from Manholes MH-54 and MH-76, General Motors Powertrain Group, Tonawanda Engine Plant, Tonawanda, New York* (CRA, August 2003)

GES, *Workplan to Address PCB Surface Impacts* (GES, May 18, 2012)

GES, *Limited Environmental Site Assessment and Site Activities Summary report, Tonawanda Forge, 2309 Kenmore Avenue, Tonawanda, New York 14207, NYSDEC Spill # 0911809, NYSDEC Spill # 1112690* (GES, October 2012)

NYSDEC, Division of Water. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. Technical and Operational Guidance Series (TOGS) No. 1.1.1, Class GA* (NYSDEC, April 2000 including June 2004 Addenda)

NYSDEC, Department of Environmental Remediation, *DER-10 Technical Guidance for Site Investigation and Remediation* (NYSDEC, May 2010)

NYSDEC, *CP-51 Soil Cleanup Guidance for Total PAHs* (NYSDEC, October 2010)

NYSDEC, *Record of Decision, Tonawanda Forge Site Operable Unit Number 01: Soil Contamination*, (NYSDEC, March 2020)

URS, *Interim Remedial Measure Construction Completion Report NYS Contract No. D009634* Tonawanda Forge Site (URS August 2016)

URS, *Remedial Investigation* Report Tonawanda Forge Site (URS January 2018)

URS, *Feasibility Study* Report Tonawanda Forge Site (URS September 2019)

Wischkaemper, H.K, A.F. Beliveau & R.W. Henderson, *Technical Services Section Paper for Polychlorinated Biphenyl Characterization at Region 4 Superfund and RCRA Sites*. (USEPA Region 4, 2013).

TABLES

TABLE 1-1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION REPORT
NYSDEC WA D009803-24
HISTORICAL SOIL RESULTS SUMMARY

Detected Constituents	Concentration Range Detected (ppm)[a]	Unrestricted SCO (ppm)[b]	Frequency Exceeding Unrestricted SCO	Industrial SCO (ppm)[c]	Frequency Exceeding Industrial SCO	Protection of Groundwater (PGW) SCO (ppm)[d]	Frequency Exceeding PGW SCO
VOCs							
1,2,4-Trichlorobenzene	0.0095-0.0095	3.4	0/317	--	--	3.4	0/317
4-Methyl-2-pentanone	0.0044-0.080	1	0/317	--	--	1	0/317
Acetone	0.00480-0.37	0.05	21/317	1,000	0/317	0.05	20/317
Benzene	0.00029-0.0050	0.06	0/319	89	0/319	0.06	0/319
Carbon disulfide	0.0029-0.023	2.7	0/317	--	--	2.7	0/317
Chlorobenzene	0.00089-0.00089	1.1	0/319	1,000	0/319	1.1	0/319
Chloroform	0.00035-0.00068	0.37	0/319	700	0/319	0.37	0/319
Ethylbenzene	0.00041-0.0022	1	0/317	780	0/317	1	0/317
Methyl Ethyl Ketone (2-Butanone)	0.0091-0.054	0.12	0/319	1,000	0/319	0.12	0/319
Methylene Chloride	0.0025-0.058	0.05	2/317	1,000	0/317	0.05	2/317
Styrene	0.00051 - 0.00051	300	0/317			--	0/317
Tetrachloroethene (PCE)	0.0064-0.026	1.3	0/319	300	0/319	1.3	0/319
Toluene	0.00045-0.0046	0.7	0/317	1,000	0/317	0.7	0/317
Xylenes, Total	0.00096-0.0085	0.26	0/317	1,000	0/317	1.6	0/317
SVOCs							
1,1-Biphenyl	0.014-2.6	60	0/317	--	--	--	0/317
2-Methylnaphthalene	0.013-7.2	0.41	11/317	--	--	36.4	0/317
2-Methylphenol (o-Cresol)	0.0072-0.030	0.33	0/319	1,000	0/319	0.33	0/319
4-Methylphenol (p-Cresol)	0.015-4.7	0.33	3/319	1,000	0/319	0.33	3/319
Acenaphthene	0.0056-29	20	2/317	1,000	0/317	98	0/317
Acenaphthylene	0.0087-1.8	100	0/317	1,000	0/317	107	0/317
Anthracene	0.0060-61	100	0/317	1,000	0/317	1,000	0/317
Benzo(a)anthracene	0.0074-190	1	42/317	11	8/317	1	42/317
Benzo(a)pyrene	0.0088-170	1	43/317	1.1	38/317	22	4/317
Benzo(b)fluoranthene	0.0063-240	1	57/317	11	11/317	1.7	42/317
Benzo(g,h,i)perylene	0.0058-30	100	0/317	1,000	0/317	1,000	0/317
Benzo(k)fluoranthene	0.0023-110	0.8	32/317	110	0/317	1.7	21/317
bis(2-Ethylhexyl)phthalate	0.064-810	50	1/317	--	--	435	1/317
Butylbenzylphthalate	0.088-1.9	100	0/317	--	--	122	0/317
Chrysene	0.0068-200	1	48/317	110	1/317	1	48/317
Dibenz(a,h)anthracene	0.0053-10	0.33	24/317	1.1	11/317	1,000	0/317
Dibenzofuran	0.0084-16	7	3/317	1,000	0/317	210	0/317
Diethylphthalate	0.12-0.12	7.1	0/317	--	--	7.1	0/317
Di-n-butylphthalate	0.099-3.3	0.014	4/317	--	--	8.1	0/317
Di-n-octylphthalate	0.050-1.5	100	0/317	--	--	120	0/317
Fluoranthene	0.0076-490	100	1/317	1,000	0/317	1,000	0/317

TABLE 1-1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION REPORT
NYSDEC WA D009803-24
HISTORICAL SOIL RESULTS SUMMARY

Detected Constituents	Concentration Range Detected (ppm)[a]	Unrestricted SCO (ppm)[b]	Frequency Exceeding Unrestricted SCO	Industrial SCO (ppm)[c]	Frequency Exceeding Industrial SCO	Protection of Groundwater (PGW) SCO (ppm)[d]	Frequency Exceeding PGW SCO
Fluorene	0.011-28	30	0/317	1,000	0/317	386	0/317
Indeno(1,2,3-cd)pyrene	0.0055-32	0.5	66/317	11	4/317	8.2	8/317
Naphthalene	0.011-9.7	12	0/317	1,000	0/317	12	0/317
N-Nitrosodiphenylamine	0.025-0.76	20	0/317	1,000	0/317	--	0/317
Phenanthrene	0.0061-290	100	1/317	1,000	0/317	1,000	0/317
Phenol	0.045-16	0.33	1/317	1,000	0/317	0.33	1/317
Pyrene	0.0092-310	100	1/317	1,000	0/317	1,000	0/317
Metals							
Aluminum	353-43,800	10,000	174/317	--	--	--	--
Antimony	0.46-8.0	12	0/317	--	--	--	--
Arsenic	0.56-93.2	13	23/319	16	17/319	16	17/319
Barium	2.5-557	350	4/319	10,000	0/319	820	0/319
Beryllium	0.084-6.7	7.2	0/317	2,700	0/317	47	0/317
Cadmium	0.042-29.0	2.5	14/319	60	0/319	7.5	4/319
Calcium	1520-276,000	10,000	291/317	--	--	--	--
Chromium, Total	3.4-1,040	30	105/319	6,800	0/319	Not Specified	--
Cobalt	0.36-33.2	20	8/317	--	--	--	--
Copper	1.9-4,850	50	67/317	10,000	0/317	1,720	4/317
Iron	1,200-492,000	2,000	316/317	--	--	--	--
Lead	1.2-2,950	63	51/319	3,900	0/319	450	3/319
Manganese	61.3-7,310	1,600	29/317	10,000	0/317	2,000	18/317
Mercury	0.0082-6.6	0.18	25/319	5.7	1/319	0.73	6/319
Nickel	3.4-340	30	116/317	10,000	0/317	130	13/317
Selenium	0.46-11.3	3.9	4/319	6,800	0/319	4	4/319
Silver	0.24-9.8	2	2/319	6,800	0/319	8.3	1/319
Thallium	0.44-8.8	5	1/317	--	--	--	--
Vanadium	2.9-113	39	22/317	--	--	--	--
Zinc	11.5-4,000	109	75/317	10,000	0/317	2,480	2/317
PCBs							
Total PCBs	0.055-260	0.1	154/319	25	9/319	3.2	56/319

Includes all on-site samples collected during Remedial Investigation (November 2013 through November 2016), including field duplicates.
a - ppm: parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil;
b - SCO: Part 375-6.8(a), Unrestricted Soil Cleanup Objectives.
c - SCO: Part 375-6.8(b), Restricted Use Soil Cleanup Objectives for the Protection of Public Health for Industrial Use, unless otherwise noted.
d - SCO: Part 375-6.8(b), Restricted Use Soil Cleanup Objectives for the Protection of Groundwater.

TABLE 1-2
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION REPORT
NYSDEC WA D009803-24
HISTORICAL SURFACE WATER RESULTS SUMMARY

Detected Constituents	Concentration Range Detected (ppb)[a]	SCO[b] (ppb)	Frequency Exceeding SCO
VOCs			
Acetone	ND-4.9	50	0/2
Carbon disulfide	ND-0.44	60	0/2
SVOCs			
Anthracene	ND-0.54	3.8	0/2
Benzo(a)anthracene	ND-3.7	0.002	1/2
Benzo(a)pyrene	ND-5.6	0.0012	1/2
Benzo(b)fluoranthene	ND-11	0.002	1/2
Benzo(k)fluoranthene	ND-4.4	0.002	1/2
Chrysene	ND-6.8	0.002	1/2
Fluoranthene	ND-9.9	50	0/2
Indeno(1,2,3-cd)pyrene	ND-3.4	0.002	1/2
Phenanthrene	ND-3.3	5	0/2
Pyrene	ND-8.3	4.6	1/2
Inorganics			
Aluminum	ND-1,200	100	1/2
Barium	27-55	1,000	0/2
Chromium	ND-0.0036	50	0/2
Cobalt	ND-0.00097	5	0/2
Copper	6-11	14.6	0/2
Iron	300-24,600	300	1/2
Lead	ND-18	7	1/2
Magnesium	9,100-12,500	35,000	0/2
Manganese	36-290	300	0/2
Nickel	0.0048-7	84	0/2
Sodium	2,200-17,600	20,000	0/2
Vanadium	ND-0.0049	14	0/2
Zinc	5.5-220	134	1/2

Table only includes detected constituents.
a - ppb: parts per billion, which is equivalent to micrograms per liter, ug/L, in water.
b -SCO: Ambient Water Quality Standards and Guidance Values (TOGs 1.1.1) and 6 NYCRR Part 703: Surface Water and Groundwater Quality Standards.
ND: Non-detect

TABLE 2-1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION REPORT
NYSDEC WA D009803-24
2020 SOIL SAMPLING RATIONALE

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-1	ECM Area (Front Forty)	Industrial Landfill	Contaminated fill	176.2 ppm PCBs near ground surface at southern corner of area. Several locations with PCBs >50, but <100 ppm.	Limited surface soil data to determine cleanliness of existing cap. Some larger gaps without soil borings. Need to delineate below and around high-concentration results.	Concentrations of arsenic and benzo(a)pyrene above industrial SCOs.	20 soil borings, 10 Surface samples	0-1, 2-3, 4-5	The presence of PCB concentrations near and exceeding the 100 ppm maximum self-implementing cleanup criterion requires additional delineation horizontally and vertically. Fill has a high degree of variability and requires greater sample density than other areas to adequately characterize it. Characterize surface cover to better delineate extent of concentrations of arsenic and benzo(a)pyrene above industrial SCOs.
A0C-2	Former PCB Spill Area	Damaged electrical transformer	Surface PCB spill from damaged electrical box	25 ppm PCBs at 3-4 feet bgs in central area.	Three borings previously completed in the spill area with limited impacts and a couple other clean samples.	Delineation appears adequate	1 surface sample	* See below	No likely sources outside of spill area and impacts in spill area are limited. Surface sample in area of spill to assess utility of surface cover as part of cap material.
A0C-3	Relay Rod Area	Oil pits, relay rod area, trenches	Surface contamination from trenches and oil pits.	PCB concentrations <25 ppm throughout.	Good sample coverage with limited PCB impacts and no major PCB source identified.	Delineation appears adequate	None	NA	AOC adequately characterized.
A0C-4	Machine Repair Area	Drains in machine and truck repair areas with oil	Surface spills, except possibly in sump in truck repair area	A sample collected in 1998 from within the sump in the truck repair area showed PCBs >50 ppm.	Soil samples were collected around the truck repair area sump and PCBs were not detected. Samples collected around one of two oil-filled machine repair area drains.	Delineation appears adequate	2 soil borings	8-10, 10-12	Characterize the unsampled oil-filled machine repair area drain and characterize deep soils near the 9-foot deep truck repair sump.
A0C-5	Basement & Quench Oil Pump Pits	Backfilled oil pump pits.	Subsurface spill from oil pump pits and potentially contaminated backfill	PCBs detected at less than 1 ppm in 1 of 17 samples.	All the samples are all ND or below the most conservative self-implementing cleanup criteria.	Delineation appears adequate	None	NA	Borings sufficiently cover the area of the AOC. No further sampling needed.
A0C-6	Waste Treatment Area, Sewer Lift Station & Waste Storage Area	Waste disposal AST	Surface spill from AST	PCBs detected in 2 of 12 samples at a maximum concentration of 3.2 ppm.	Limited evidence of PCB impacts in shallow samples. No evidence of deeper impacts.	Delineation appears adequate	1 surface sample	* See below	Concrete sample to assess PCB concentrations at ground surface beneath former AST where PCBs were previously detected from 1.5 to 2 feet bgs.
A0C-7	Environmental Building (Former oil Pump)	Oil pump house UST and hazardous waste storage area	Surface spills from waste storage area.	PCBs detected in 8 of 10 samples with 5 results > 1 ppm. 17 ppm PCBs found at 4-4.5 feet bgs All other detections below 5 ppm.	No samples on east side of building near highest concentration of PCBs.	Delineation appears adequate	2 soil borings	0-0.5, 1-1.5, 3-4, 5-6	Characterize known storage area and delineate around highest detection to verify compliance with self-implementing cleanup objectives.
A0C-8	Oil USTs / C&D Pile	UST and C&D debris pile	Surface from C&D material pile or subsurface spill from UST.	25 ppm PCBs found at 3'-4' depth	Former UST farm and building in AOC-8 lack data in the southwest corner of the AOC. Data is needed to improve vertical delineation and contamination extents. Specifically AOC-08-S-TT-X01, AOC-08-GP-02, show contamination exceedances at 4'-5' and no deeper samples in the same locations.	Delineation appears adequate	4 soil borings	0-0.5, 1-1.5, 2-3, 4-5, 6-7	Four samples on a grid of 20 ft is proposed to investigate around the >50 ppm PCB result at AOC-08-GP-02. Three additional samples at a distance of 50 feet are proposed to the northeast one to the southeast and southwest, but are provisional, pending results of closer gridded samples.
A0C-9	Railroad Spur & Soil Waste Accumulation Area	Railroad & soil waste accumulation area	Surface contamination from waste accumulation area. Surface release from railroad.	PCBs detected at concentrations greater than 1 ppm in 7 of 26 samples, all at depths of 1 to 5 feet bgs with a maximum concentration of 13 ppm. NAPL observed at northeast end of area with >100 ppm PCBs.	Delineation appears adequate. Surface samples do not indicate the presence of PCBs over the most conservative self-implementing cleanup criteria.	Delineate extent of SVOCs and metals around GP-05	2 soil borings 3 surface soil samples	1 to 2 feet above and 1 to 2 feet below water table	PCB delineation sufficient, but soil concentrations for soil in contact with NAPL requires characterization and delineation. Delineate extent of SVOCs and metals around GP-05.

TABLE 2-1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION REPORT
NYSDEC WA D009803-24
2020 SOIL SAMPLING RATIONALE

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-10	Berm Area	Used oil AST, cutting-oil covered swarf materials	Surface spill, release from adjacent railroad spur to the northeast	Previous investigation and remediation of PCB-impacted soils. 48 ppm PCBs present from 1 to 1.5 feet bgs along southeastern edge of berm area.	Additional shallow data needed, especially around elevated detection and along eastern edge of berm area needed.	Delineation appears adequate	6 soil borings 2 surface samples	0-0.5, 1-1.5, 3-4	Delineate around sample with elevated PCB concentrations. Improve surface soil characterization in areas of known impacts.
A0C-11	Railroad Spur	Railroad equipment and materials	Surface spills	PCBs detected in surface soil over much of this area. PCB concentrations >100 ppm detected in NAPL in this area and detected in subsurface soil sample along rail line immediately southeast of site.	Generally good coverage, although additional assessment of surficial soil desirable to ensure 25 ppm cleanup criterion met and delineation around NAPL.	Additional delineation is needed near AOC-11-GP-01	4 soil borings 1 surface sample	1 to 2 feet above and 1 to 2 feet below water table	Evaluate PCB concentrations around area with NAPL and near areas where PCBs are observed in surface soils in steel yard. Evaluate extent of subsurface SVOC soil contamination around previous boring AOC-11-GP-01.
A0C-12	Steel Yard	Steel yard, storage of swarf material.	Surface contamination from residual cutting oils on swarf.	Previous investigations indicated that the presence of PCBs in subsurface soils (BB&L, December 1998) was attributed to the historic storage of swarf material in the area	Data is needed to delineate vertical and horizontal extent of material containing PCBs greater than 100 ppm.	Delineation is needed at several locations to better define horizontal extent of surface soil contamination	12 soil borings 3 surface samples	0-0.5, 1-1.5, 3-4	10 soil borings to delineate around 100 mg/kg detections. 2 soil borings for better general coverage of area with potentially randomly distributed sources of PCBs. Additional data is needed to delineate the extent of SVOCs and metals at 6 locations.
A0C-13	Front Forge / Hot Formers	Substation, shears and presses and drains.	Surface releases from transformers, surface and subsurface releases from shears and presses.	Samples of oil collected by GES from this area indicated the presence of PCBs. One sample of soil contained PCBs at 54 ppm. PCB concentrations of 430 ppm detected in NAPL.	Additional soil data is needed to delineate around >50 ppm sample and around NAPL. Additional data needed near former pits and catch basins around shears and presses.	Delineation appears adequate	12 Soil borings 3 surface samples	0-0.5, 1-1.5, 3-4 for 9 borings and 1 to 2 feet above and below water table near NAPL well	Additional PCB data is needed in former substation and transformer yard and near the gear presses and shears. Sample locations in substation area should be adjusted based on field observations.
A0C-14	Former Die Room / C&D Pile	C&D pile Subsurface utilities	Surface spill, subsurface spill	Oily C&D pile removed in 2016. NAPL containing PCBs at 270 ppm identified in subsurface.	Soil data needed near the monitoring well to assess the extent of NAPL. Data needed in footprint of former C&D pile.	Delineation appears adequate	2 soil borings 6 surface samples	1 to 2 feet above and 1 to 2 feet below water table	Soil borings to characterize potential C&D pile PCB residue and to characterize soil around NAPL.
A0C-15	General Stores / Metal Lab Area	Laboratory, drill presses	Surface spill/subsurface spill from drill press sumps	PCB-containing wood block with black staining was observed within this area. Detection of 260 ppm PCBs along northwestern edge of area.	Need additional data near wood block and drill press sump that contained oil. Delineation around elevated PCB detection.	Delineation appears adequate	5 soil borings 1 surface sample	0-0.5, 1-1.5, 3-4	Delineate around PCB sample collected near floor drain at 1'-1.5' that contained >100 ppm PCBs. Characterize floor beneath former stained wood brick floor.
Other	Loading Docks	Hydraulic lifts	Subsurface release of hydraulic oil possible.	No data exist.	No data exist.	Delineation appears adequate	6 soil borings	0-0.5, 1-1.5, 3-4, 6-8	4 borings between hydraulic lifts. 2 at hydraulic oil reservoirs.
A0C-16	300 Ton Press & Cold Headers Area / C&D	Pile of C&D material, press	Surface spill from C&D pile. Release from press.	40 ppm detected in boring near former press.	Additional borings to delineate extent of PCBs around former presses.	Delineation appears adequate	2 soil borings 3 surface samples	0-0.5, 1-1.5, 3-4	Borings to vertically delineate detected PCBs and to assess for potential of higher concentrations. Surface samples to assess C&D pile area.

Notes:
* Surface samples for PCBs to be collected from 0 to 0.5 feet bgs in soil and 0 to 0.25 inches deep in concrete. Aliquots for SVOCs, TAL Metals, and Mercury to be collected between 0 and 2 feet. VOC aliquots to be collected at discrete 1 foot intervals.
ppm = Parts per million
bgs = Below ground surface
NA = Not applicable

TABLE 2-2
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
PHASE II SOIL SAMPLING RATIONALE

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-1	ECM Area (Front Forty)	Industrial Landfill	Contaminated fill	Elevated PCBs in fill materials.	Limited surface soil data to determine cleanliness of existing cap. Some larger gaps without soil borings. Need to delineate below and around high-concentration results.	Concentrations of arsenic and benzo(a)pyrene above industrial SCOs. Additional surface soil samples needed near SS-12.	9 soil borings, 2 Surface samples	0-0.5, 1-2, 2-3	Characterize soil beneath surface cover to better delineate extent of concentrations of PCBs, arsenic and benzo(a)pyrene above industrial SCOs.
A0C-2	Former PCB Spill Area	Damaged electrical transformer	Surface PCB spill from damaged electrical box	25 ppm PCBs at 3-4 feet bgs in central area. Impervious surface impacted with PCBs.	Three borings previously completed in the spill area with limited impacts and a couple other clean samples. Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	2 surface samples. 7 additional concrete samples.	0 - 0.5 * See below for concrete	No likely sources outside of spill area and impacts in spill area are limited. Surface sample in area of spill to assess utility of surface cover as part of cap material.
A0C-3	Relay Rod Area	Oil pits, relay rod area, trenches	Surface contamination from trenches and oil pits.	PCB concentrations >25 in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	1 concrete sample	* See below for concrete	Additional concrete sample needed to delineate extent of PCBs in impervious cover.
A0C-4	Machine Repair Area	Drains in machine and truck repair areas with oil	Surface spills, except possibly in sump in truck repair area	PCB concentrations >25 in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	2 concrete samples	* See below for concrete	Additional concrete samples needed to delineate extent of PCBs in impervious cover.
A0C-5	Basement & Quench Oil Pump Pits	Backfilled oil pump pits.	Subsurface spill from oil pump pits and potentially contaminated backfill	PCB concentrations >25 in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	1 concrete sample	* See below for concrete	Additional concrete samples needed to delineate extent of PCBs in impervious cover.
A0C-6	Waste Treatment Area, Sewer Lift Station & Waste Storage Area	Waste disposal AST	Surface spill from AST	PCBs detected in 2 of 12 samples at a maximum concentration of 3.2 ppm.	Limited evidence of PCB impacts in shallow samples. No evidence of deeper impacts.	Delineation appears adequate.	NA	NA	NA
A0C-7	Environmental Building (Former oil Pump)	Oil pump house UST and hazardous waste storage area	Surface spills from waste storage area.	PCBs detected in 8 of 10 samples with 5 results > 1 ppm. 17 ppm PCBs found at 4-4.5 feet bgs All other detections below 5 ppm.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA
A0C-8	Oil USTs / C&D Pile	UST and C&D debris pile	Surface from C&D material pile or subsurface spill from UST.	25 ppm PCBs found at 3'-4' depth	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA
A0C-9	Railroad Spur & Soil Waste Accumulation Area	Railroad & soil waste accumulation area	Surface contamination from waste accumulation area. Surface release from railroad.	PCBs detected at concentrations greater than 1 ppm in 7 of 26 samples, all at depths of 1 to 5 feet bgs with a maximum concentration of 13 ppm. NAPL observed at northeast end of area with >100 ppm PCBs.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA

TABLE 2-2
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
PHASE II SOIL SAMPLING RATIONALE

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-10	Berm Area	Used oil AST, cutting-oil covered swarf materials	Surface spill, release from adjacent railroad spur to the northeast	Previous investigation and remediation of PCB-impacted soils. 48 ppm PCBs present from 1 to 1.5 feet bgs along southeastern edge of berm area.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA
A0C-11	Railroad Spur	Railroad equipment and materials	Surface spills/lateral migration from MH-59	PCBs detected in soil adjacent to MH-59.	Additional assessment of soil around MH-59 needed to ensure 25 ppm cleanup criterion met.	Additional delineation is needed near TP-08.	3 soil borings 3 surface samples	0-0.5, 1-1.5, 3-4, 11-12 (or native clay)	Delineate horizontal and vertical extent of PCB concentrations around TP-08 area.
A0C-12	Steel Yard	Steel yard, storage of swarf material.	Surface contamination from residual cutting oils on swarf.	PCBs detected in soil at SB-51-20 and SB-53-20.	Additional assessment of soil around SB-51-20 and SB-53-20 needed to ensure 25 ppm cleanup criterion met.	Additional delineation is needed.	2 soil borings	1-1.5, 2-3, 3-4, 11-12 (or native clay)	Delineate horizontal and vertical extent of PCB concentrations around SB-51-20 and SB-53-20.
A0C-13	Front Forge / Hot Formers	Substation, shears and presses and drains.	Surface releases from transformers, surface and subsurface releases from shears and presses.	PCBs detected in soil at 3.3-3.5 in TP-02. Elevated PCBs in concrete.	Additional assessment of soil around TP-02 needed to ensure 25 ppm cleanup criterion met. Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Additional delineation is needed near TP-02, and surface impacts near central portion of the AOC.	5 Soil borings and 2 surface samples at boring locations. 5 additional surface soil samples to better delineate and characterize surface impacts. 7 additional concrete samples.	0-0.5, 1-1.5, 3.5-4, 4-5 and 11-12 (or native clay). *See below for concrete	Delineate horizontal and vertical extent of PCB concentrations around TP-02 area. Delineate extent of PCB surface soil impacts in central area of the AOC.
A0C-14	Former Die Room / C&D Pile	C&D pile Subsurface utilities	Surface spill, subsurface spill	Oily C&D pile removed in 2016. NAPL containing PCBs at 270 ppm identified in subsurface. PCBs > 25 ppm in impervious cover	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	Delineation appears adequate.	NA	NA
A0C-15	General Stores / Metal Lab Area	Laboratory, drill presses	Surface spill/subsurface spill from drill press sumps	PCB-containing wood block with black staining was observed within this area. Detection of 260 ppm PCBs along northwestern edge of area. PCBs > 25 ppm in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	1 concrete sample	* See below for concrete	Additional concrete sample needed to delineate extent of PCBs in impervious cover.
Other	Loading Docks	Hydraulic lifts	Subsurface release of hydraulic oil possible.	No data exist.	No data exist.	Delineation appears adequate.	NA	NA	NA
Other	Net Gear Warehouse Area	Spills	Surface spill/subsurface spill	High PCBs detected at SF-16-20 beneath asphalt	Need additional data to delineate horizontal and vertical extent of PCB detection.	Delineation appears adequate.	4 soil borings	1-1.5, 3-4, 4-5, 11-12 (or native clay)	Delineate around PCB sample collected beneath asphalt that contained >100 ppm PCBs.
A0C-16	300 Ton Press & Cold Headers Area / C&D	Pile of C&D material, press	Surface spill from C&D pile. Release from press.	40 ppm detected in boring near former press.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA

Notes: ppm = Parts per million bgs = Below ground surface NA = Not applicable

* Surface samples for PCBs to be collected from 0 to 0.5 feet bgs in soil and 0 to 0.25 inches deep in concrete. Aliquots for SVOCs, TAL Metals, and Mercury to be collected between 0 and 2 feet. VOC aliquots to be collected at discrete 1 foot intervals.

All borings in the western (industrial) portion will be advanced to 12 feet below ground surface or native clay.

TABLE 2-3
TONAWANDA FORGE SITE PRE-DESIGN INVESTIGATION
SEWER WATER, SEWER SEDIMENT, AND LNAPL SAMPLING RATIONALE
OCTOBER/NOVEMBER 2020 MANHOLE, CATCH BASIN, AND DRAINAGE INLET INVENTORY

Location ID	Date	Comment	DTW (inches)	Sediment Thickness (inches)	Description	Proposed Sampling Rationale	Sampled Yes/ No
Manholes							
MH-15	11/13/2020	Accessible	18.5	3	No visible pipe. Total depth 11.5'		No
MH-16	10/27/2020	Accessible	16	NA	Total depth >10.5', heavy sheen, no pipes visible	Heavy sheen present before and after disturbing sediment	No
MH-16A	10/23/2020	Unable to open (bolted down)	NA	NA	Allen key screws rusted/stripped		No
MH-17	10/23/2020	Accessible	23	2	Total depth 114"		No
MH-17A	10/23/2020	Accessible	23	0	Total depth 118", no visible pipes		No
MH-18	10/23/2020	Unable to open, submerged	NA	NA	NA		No
MH-23-2	10/27/2020	Could not locate	NA	NA	NA		No
MH-51	10/21/2020	Accessible	17	2	Total depth 9'8", no visible pipes (historic high PCB's)	Historic high PCB's	No
MH-52	10/23/2020	Unable to locate	NA	NA	NA		No
MH-53	10/22/2020	Accessible	21		Total depth >10'10", no visible pipes (historic high PCB's)	Historic high PCB's	No
MH-53-1	10/27/2020	Could not locate	NA	NA	NA		No
MH-53-2	10/22/2020	Accessible	22	1	Total depth 125", 4" pipe w/ 24" invert (historic high PCB's)	Historic high PCB's	Yes
MH-53-3	10/23/2020	Unable to open (bolts rusted in place)	NA	NA	PCBs ≥100 ppm		No
MH-55	10/27/2020	Accessible	26	NA	Total depth >11'2", 6" pipe, unk invert		No
MH-56	10/23/2020	Accessible	25	NA	Total depth >11'2", 4" steel pipe w/ 31" invert, 6" elbow pipe		No
MH-57	10/23/2020	Accessible	25	NA	Total depth >11'2", sheen, 4" steel pipe w/ 26" invert		No
MH-58	10/22/2020	Accessible	29		Total depth >11'6", minor sheen (historic high PCB's)	Historic high PCB's	Yes
MH-58-1	11/18/2020	Could not locate	NA	NA	Possibly destroyed. In rubble area.		No
MH-59	10/21/2020	Accessible, oil present	22	2	LNAPL, total depth 10'4", no visible pipes. 3-4' of LNAPL present		Yes
MH-60	10/21/2020	Accessible	26	3	Total depth 9'2", 8" pipe w/ 48" invert (historic high PCB's)	Historic high PCB's	Yes
MH-62	10/22/2020	Accessible	24	NA	Total depth >11'2", 4" steel pipe w/ 31" invert		No
MH-63	10/23/2020	Accessible, cracked lid, did not open	NA	NA	NA		No
MH-64	10/23/2020	Accessible w/ broken lid	14.5	2	Total depth 9', oily substance on water surface	Historic high PCB's	Yes
MH-66	10/27/2020	Accessible	28	NA	Total depth >11', sheen, no visible pipes		No
MH-68	10/22/2020	Unable to open	NA	NA	Silver cover seal w/ screws		No
MH-78	10/27/2020	Accessible	33	2	Total depth 134", 31" pipe leads to 34" square manway w/ 12" sealed pipe		No
MH-83B		Unable to locate			middle of Back 40, need sample for spatial distribution	Spatial distribution	No
MH-85	12/29/2020	Accessible			north corner of back 40, need sample for spatial distribution	Unable to locate MH-86. Possibly buried or destroyed. Replaced with MH-85	Yes
MH-86		Unable to locate			north corner of back 40, need sample for spatial distribution	Spatial distribution	No
MH-100	10/27/2020	Accessible	40	3	No visible pipes. Total depth 70"		No
MH-101	10/27/2020	Unable to open	NA	NA	NA		No
MH-102	10/27/2020	Accessible	NM	NM	Total depth > 12', sheen, some sediment. Oil/water separator w/ mechanicals in vault.	Spatial distribution	No
MH-103	10/27/2020	Accessible	8		Total depth >10.5', raised cap; next to former waste treatment plant		No
MH-104	10/27/2020	Accessible	60		Total depth >12', 6" pipe w/ invert		No
MH-105	10/27/2020	Accessible/unable to open	NA	NA	40" cover opens to 6' pipe, sealed in place		No
MH-106	10/27/2020	Accessible	12	3-4	Total depth 45", cover grown in w/ vegetation and fabric		No
MH-107	10/27/2020	Accessible	14	4-6	Total depth 98", slight sheen, no visible ladder or pipes	Sheen on water when sediment was disturbed	Yes
MH-108	10/22/2020	Accessible	23	63.5	Total depth 78", no LNAPL seen, 4' pipe w' 28" invert (historic LNAPL)	Historic high PCB's	Yes
MH-109	11/18/2020	Unable to open, bolts wouldn't fully come out.	NA	NA	NA		No
MH-110	10/23/2020	Accessible, missing lid, replaced lid on 11/15/2013	18.5	2	Total depth 102.5", no visible pipes		No
MH-111	10/27/2020	Could not locate	NA	NA	NA		No
MH-112	10/22/2020	Accessible	24	1	Total depth 86.5", 1 x 4" pipe w/ 28" invert, 1 x 12" pipe w/ 33" invert, 1 x 6" w/ 48" invert		No
MH-113	10/23/2020	Accessible	21	2	Total depth 36", sheen/oily odor, 2 x 12" pipes w/ 30" invert	Sheen and oily odor present before and after disturbing sediment	Yes
MH-114	10/23/2020	Unable to open	NA	NA	Allen key screws rusted/stripped		No
MH-115	10/27/2020	Could not locate	NA	NA	Covered by concrete or destroyed		No
MH-116	10/27/2020	Could not locate	NA	NA	Covered by concrete or destroyed		No
MH-117	10/23/2020	Accessible	Dry	3	Total depth 27", 6" pipe w/ 18" invert		No
MH-118	10/23/2020	Unable to open, submerged	NA	NA	NA		No
MH-119	10/23/2020	Accessible, oil present	18	3	87" to soft bottom, no visible pipes. About 8" of LNAPL present.	8" of LNAPL present, confirm ND for PCBs	Yes

TABLE 2-3
TONAWANDA FORGE SITE PRE-DESIGN INVESTIGATION
SEWER WATER, SEWER SEDIMENT, AND LNAPL SAMPLING RATIONALE
OCTOBER/NOVEMBER 2020 MANHOLE, CATCH BASIN, AND DRAINAGE INLET INVENTORY

Location ID	Date	Comment	DTW (inches)	Sediment Thickness (inches)	Description	Proposed Sampling Rationale	Sampled Yes/ No
MH-120	10/23/2020	Accessible, oil present	18	2	Brick-lined covered in product, total depth 64", no visible pipes. About 6" pf LNAPL present	6" of LNAPL present, sampled in RI, 430 ppm PCBs.	No
MH-121	10/23/2020	Accessible, oil present	18	4	77" to soft bottom, no visible pipes. About 3" of LNAPL present	3" of LNAPL present	Yes
MH-122	10/22/2020	Accessible	16	1	Total depth 77", no visible pipes		No
MH-123	10/22/2020	Accessible	17	2	Total depth 8'7", end of 24" depth opens to vault, sheen/bubbles		No
MH-124	10/23/2020	Unable to open, bolted down	NA	NA	NA		No
MH-125	10/23/2020	Accessible	16	17	total depth 62.5", 4" elbow pipe	Spatial distribution	No
MH-126	10/23/2020	Accessible	Dry	4	PCBs ≥100 ppm, total depth 26", 2 x 6" pipes w/ 21" invert		No
MH-127	10/27/2020	Could not locate	NA	NA	NA		No
MH-128	10/22/2020	Accessible	15	18	Total depth 65", 6" pipe w/ 39.5" invert (historic high PCB's)	Historic high PCB's	No
MH-129	10/23/2020	Accessible	24	2	Total depth 62", 2" pipe 16-18" elbow below surface, 4" pipe w/ 24" invert		No
MH-130	10/23/2020	Unable to open, lid pinched shut on rim	NA	NA	NA		No
MH-131	10/21/2020	Unable to open	NA	NA	NA		No
MH-132	10/21/2020	Accessible	16	2	Total depth 63", slight sheen, 2" steel pipe w/ elbow (historic high PCB's)	Historic high PCB's	Yes
MH-133	10/21/2020	Accessible	16	2	2" steel pipe with elbow. Total depth : 63"		No
MH-134	10/21/2020	Accessible	13	2	Total depth 24", 4" PVC pipe		No
MH-135	10/21/2020	Accessible	15.5	11	No visible ladder/pipes, reddish/oily sheen		No
MH-136	10/23/2020	Accessible, filled w/ concrete debris to top	NA	NA	17" to bottom		No
MH-137	10/23/2020	Accessible, broken lid, replaced lid on 11/20/2013.	Dry	7	14" to sediment, 6" pipe w/ 14" invert		No
MH-200	10/21/2020	Accessible	20	2	Total depth 88", no visible pipes		No
MH-201	11/6/2020	Accessible	Underwater	NA	middle of main parking lot, need sample for spatial distribution	Spatial distribution	No
MH-305	12/30/2020	Accessible	Underwater	NA	middle of main parking lot, need sample for spatial distribution	Unable to locate MH-201 due to ice. Replaced with MH-305.	Yes
MH-103V	12/28/2020	Accessible	NA	NA	Square vault to the west of the waste water treatment plant		Yes
MH-1608	10/21/2020	Accessible	15	1	Total depth 66"		No
MH-1629	10/22/2020	Unable to open, partially seal w/ concrete	NA	NA	NA		No
RRV-01	12/29/2020	Accessible	NA	NA	**R**ail **R**oad **V**ault. Middle man hole above the railroad vault to the north of the office	Unable to locate MH-310. Replaced with RRV	Yes
F40EV	12/30/2020	Accessible	NA	NA	**F**ront **40** **E**ast **V**ault. Need sample for spatial distribution	Unable to locate MH-83B. Replaced with F40EV	Yes
Catch Basins							
CB-1	10/27/2020	Accessible	18	6	Total depth 36", 2 x 8" pipes at bottom, invert at bottom, sheen		No
CB-2	10/27/2020	Accessible	18	2	Total depth 36", 2 x 6" pipes at bottom		No
CB-3	10/27/2020	Accessible	14	2	Total depth 67"		No
CB-4	10/27/2020	Accessible	40	2-3	Total depth 70", no visible pipes		No
CB-5	10/27/2020	Accessible	36	10	Total depth 54"		No
CB-6	10/27/2020	Accessible	38	5	Total depth 50", invert 50", sheen, 8" steel pipe w/ 39" invert		No
CB-7	10/27/2020	Accessible	45	3-4	Invert 60", sheen, 6" PVC pipe, 3 x 10" corrugated pipes, invert 60"		No
CB-8	10/27/2020	Accessible	NA	8	Total depth 60", cover grown in w/ veg		No
CB-9	10/27/2020	Accessible	NA	4-6	Total depth 60", cover grown in w/ veg		No
CB-10	10/27/2020	Accessible	8	2-4	Total depth 24"		No
CB-11	10/27/2020	Accessible	NA	NA	Filled in with vegetation/ sediment		No
CB-12	10/27/2020	Accessible	Dry	>48	Total depth 54"		No
CB-13	10/27/2020	Accessible	NA	NA	Filled in with vegetation/ sediment		No
CB-14	11/18/2020	Accessible	19	10	6" steel pipe w/ 20" invert. Total depth: 35"		No
CB-15	10/27/2020	Accessible	27	2	Total depth 43"		No
CB-16	11/18/2020	Accessible	29	3	4" PVC w/ 42.5" invert. Vertical 4-6" pipe. Total depth 65"		No
CB-17	10/22/2020	Accessible	19	10	1 X 6" pipe w/ 22" invert, 1 x 12" pipe w/ 33" invert		No
CB-18	11/18/2020	Accessible	15	8	8" pipe w/ 19.5" invert. Total depth: 34"		No
CB-19	11/18/2020	Could not locate	NA	NA	Destroyed/ could not locate. In rubble area		No
CB-20	10/27/2020	Accessible	Dry	34"	Total depth 46", 4" pipe to 3" pipe (vertical)		No
CB-21	10/22/2020	Accessible	10.5	19.5	Total depth 70.5", possible 8" pipe, bubbles and sheen		No
CB-22	10/22/2020	Accessible	13.5	23	No visible pipes		No
CB-23	10/27/2020	Accessible	16	8"	Total depth 64", sheen		No

TABLE 2-3
TONAWANDA FORGE SITE PRE-DESIGN INVESTIGATION
SEWER WATER, SEWER SEDIMENT, AND LNAPL SAMPLING RATIONALE
OCTOBER/NOVEMBER 2020 MANHOLE, CATCH BASIN, AND DRAINAGE INLET INVENTORY

Location ID	Date	Comment	DTW (inches)	Sediment Thickness (inches)	Description	Proposed Sampling Rationale	Sampled Yes/ No
CB-24	10/27/2020	Could not locate	NA	NA	NA		No
CB-25	10/27/2020	Accessible	15	1	Total depth 58", sheen, drain pipe 15"		No
CB-26	10/21/2020	Accessible	18	21	Total depth 43", 6" steel pipe		No
CB-27	10/22/2020	Accessible	22	6	Total depth 77", 8" elbow pipe w/ 24" invert, 1.5" standpipe on elbow pipe. Sheen present		No
CB-28	10/21/2020	Accessible	17	9	Total depth 42", sheen, 6" steel pipe		No
CB-29	10/27/2020	Accessible	10	8	Total depth 89", sheen, possible 4-6" pipe w/32" invert		No
CB-30	10/27/2020	Accessible	10	5	Total depth 86", slight sheen, possible 4-6" pipe		No
CB-31	10/21/2020	Accessible	17	23	Total depth 43", sheen and bubbles on water, 6" steel pipe		No
CB-32	10/27/2020	Accessible.	NA	NA	Completely filled in w/ sediment and vegetation		No
CB-33	10/21/2020	Accessible	22	2	Total depth 9'2", sheen on water, bushes/vegetation grown in		No
CB-34	10/21/2020	Accessible	NA	19	Total depth unk, overgrown w/ vegetation		No
CB-35	10/21/2020	Accessible	NA	3	Submerged. Total depth 93"		No
CB-36	10/27/2020	Accessible, filled to top with water/sediment.	NA	NA	Total depth 24"		No
CB-37	10/27/2020	Accessible	NA	NA	Filled to top with sediment.		No
CB-38	10/27/2020	Inaccessible	NA	NA	Completely filled in w/ sediment and vegetation		No
CB-39	10/27/2020	Could not locate	NA	NA	NA		No
CB-40	10/27/2020	Accessible	NA	NA	Filled to top with sediment.		No
CB-41	10/27/2020	Accessible	10	8	Total depth 30", PCBs ≥100 ppm		No
CB unknown #	TBD	TBD	NA	NA	In front of Administration Building, west of MH-310	Spatial distribution	No
Drainage Inlets							
DI-1	10/21/2020	Accessible	28	5	Total depth 48", 6" PVC pipe. Sheen present		No
DI-2	10/21/2020	Accessible	23	3	Total depth 47", 6" PVC pipe. Sheen present		No
DI-3	10/21/2020	Accessible	24	1	Total depth 60", 6" PVC pipe. Sheen present		No
DI-4	10/21/2020	Accessible	13	4	Total depth 62", no visible pipes		No
DI-5	10/21/2020	Accessible	11	6	Total depth 47", 6" PVC pipe. Sheen present		No
DI-6	10/21/2020	Accessible	17.5	2	Total depth 47", 6" PVC pipe w/ 30" invert. Sheen present		No
DI-8	10/21/2020	Accessible	10.5	2	Total depth 47", 2 x 6" pipes. Sheen present		Yes
DI-9	10/21/2020	Accessible	11.2	5	Total depth 60", 6" PVC pipe w/ 42" invert		No

Proposed Sewer Water and Sediment Sample Locations
Proposed Sewer Water and Sediment Sample Locations with POTW Water Quality Param
Proposed LNAPL Sample Locati
Proposed surface water samples will be taken in the areas near MH-66 and MH-88 in the Forge area and MH-303; MH-310 and MH-311 in the Front 40.

Table 2-4
Soil Boring Summary
Tonawanda Forge Site
Work Assignment D009803-24

AOC	Boring ID	Total Depth (ft bgs)	Depth to Native Material (ft bgs)	Fill Thickness (ft)	General Fill Description	General Native Material Description	Comments
1	SB-57-20	8.0	5.0	5.0	Silt and Gravel	SILT, some to trace Clay	
	SB-58-20	8.0	6.0	6.0	Medium to fine Sand and coarse to medium to fine Gravel		
	SB-59-20	8.0	6.0	6.0		Clayey SILT	
	SB-60-20	6.0	4.0	4.0		SILT, trace to some Clay	
	SB-60-20	8.0	6.0	6.0			
	SB-61-20	8.0	6.0	6.0			
	SB-62-20	8.0	5.0	5.0			
	SB-63-20	6.0	5.0	5.0			
	SB-65-20	6.0	5.0	5.0			
	SB-66-20	6.0	0.5	0.5			
	SB-67-20	8.0	6.2	6.2			
	SB-68-20	8.0	4.0	4.0		SILT and CLAY	
	SB-69-20	4.0	3.0	3.0		SILT, trace to some Clay	
	SB-70-20	10.0	7.0	7.0			
	SB-71-20	6.0	3.0	3.0			
	SB-72-20	6.0	5.0	5.0			
	SB-73-20	6.0	4.0	4.0			
	SB-74-20	6.0	4.0	4.0			
	SB-75-20	8.0	5.0	5.0	Reworked Silt		
	SB-76-20	6.0	4.0	4.0	Medium to fine Sand and coarse to medium to fine Gravel		
	SB-77-20	4.0	1.1	1.1			
	SB-94-21	1.75	Unknown	Unknown	Reworked Silt and Clay	Not Encountered	Refusal @ 1.75' bgs
	SB-95-21	2.5	Unknown	Unknown	Red brown w/ Gray Mottled Clay and Gravel Subbase		Refusal @2.5 ' bgs
	SB-96-21	3.0	Unknown	Unknown	Silty Clay		
	SB-97-21	3.0	Unknown	Unknown			
	SB-98-21	3.0	Unknown	Unknown	Topsoil over Silt and Clay, some Gravel		Refusal @ 2.5' bgs
	SB-99-21	3.0	Unknown	Unknown	Silt over Silt and Gravel Fill		
	SB-100-21	3.0	Unknown	Unknown	Topsoil over sandy Silt, Gravel Fill		
	SB-101-21	2.5	Unknown	Unknown	Topsoil over Silt, Gravel Fill		Refusal @ 2.5' bgs
	SB-102-21	3.0	Unknown	Unknown			
4	SB-12-20	9.5	4.9	4.9	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-13-20	12.0	6.5	6.5			Slight odor @ 5.5-6.5' bgs
7	SB-01-20	8.8	4.0	4.0	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-02-20	11.5	>11.5	>11.5	Coarse to medium to fine Sand and Gravel and Silt	N/A Could not advance Geoprobe further	

Table 2-4
Soil Boring Summary
Tonawanda Forge Site
Work Assignment D009803-24

AOC	Boring ID	Total Depth (ft bgs)	Depth to Native Material (ft bgs)	Fill Thickness (ft)	General Fill Description	General Native Material Description	Comments
8	SB-03-20	4.5	>4.5	>4.5	Coarse to medium to fine Sand and Gravel	N/A (Refusal @ 4.5' bgs)	
	SB-03A-20	8.0	4.0	4.0		Clayey SILT	
	SB-04-20	12.7	12.4	12.4		SILT, some to trace Clay	Slight odor @ 4.7-8.7' bgs
	SB-05-20	8.0	4.0	4.0			
	SB-06-20	8.0	4.0	4.0			
9	SB-24-20	5.0	1.5	1.5	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-25-20	5.0	1.5	1.5			
10	SB-26-20	8.0	4.0	4.0	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-27-20	8.0	4.5	4.5			
	SB-28-20	12.0	>12	>12		N/A Could not advance Geoprobe further	
	SB-29-20	8.0	4.0	4.0		SILT, some to trace Clay	
	SB-30-20	8.0	4.8	4.8			
	SB-31-20	8.5	>8.5	>8.5		N/A (Refusal @ 8.5' bgs)	
11	SB-32-20	8.7	0.7	0.7	Concrete	SILT	
	SB-33-20	8.9	0.9	0.9		SILT, some to trace Clay	
	SB-78-20	8.0	1.0	1.0	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-79-20	8.0	1.0	1.0			
	SB-87-21	4.3	4.0	4.0		Red Brown Clay with gray mottling	
	SB-88-21	8.0	1.5	0.4			
	SB-89-21	8.0	2.2	2.2			
12	SB-43-20	8.0	5.5	5.5	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-44-20	12.0	11.9	11.9		SILT	
	SB-45-20	8.0	5.5	5.5		SILT, some to trace Clay	
	SB-46-20	8.0	5.5	5.5			
	SB-47-20	8.0	4.8	4.8			
	SB-48-20	3.5	> 3.5	> 3.5		N/A (Refusal @ 3.5' bgs)	
	SB-50-20	8.0	4.5	4.5	Gravel and Silt	SILT, some to trace Clay	
	SB-51-20	8.0	5.0	5.0	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-52-20	4.0	2.5	2.5			
	SB-53-20	8.0	6.0	6.0			
	SB-54-20	4.5	1.5	1.5			
	SB-56-20	6.0	>6.0	>6.0		N/A (Refusal, 2 Tries)	Dark staining and odor @ 5.9-6' bgs
	SB-85-21	12.0	10.7	6.4		Red Brown Clay with gray mottling	
	SB-86-21	5.3	2.5	2.5		Red Brown Clay with gray mottling	

Table 2-4
Soil Boring Summary
Tonawanda Forge Site
Work Assignment D009803-24

AOC	Boring ID	Total Depth (ft bgs)	Depth to Native Material (ft bgs)	Fill Thickness (ft)	General Fill Description	General Native Material Description	Comments
13	SB-34-20	8.0	6.0	6.0	Coarse to medium to fine Sand and Gravel	SILT, some to trace Clay	
	SB-35-20	9.0	>9.0	>9.0		N/A (Refusal @ 9.0' bgs)	NAPL @ 7.9' bgs. Odor @ 8-9' bgs.
	SB-36-20	9.0	7.0	7.0		Clayey SILT	
	SB-37-20	5.0	3.0	3.0		SILT	
	SB-38-20	4.0	2.0	2.0		Clayey SILT	
	SB-39-20	5.5	>5.5	>5.5		N/A (Refusal @ 5.5' bgs)	Staining and odor present @ 5-5.5' bgs
	SB-40-20	9.0	7.0	7.0		SILT, some to trace Clay	
	SB-41-20	4.0	>4.0	>4.0		N/A	
	SB-42-20	3.5	>3.5	>3.5		N/A (Refusal @ 3.5' bgs)	
	SB-49-20	2.0	>2.0	>2.0		N/A (Refusal @ 2.0' bgs, 2 Tries)	Slight odor @ 1.9-2' bgs
	SB-55-20	9.0	8.0	8.0		SILT, some to trace Clay	NAPL Evidence @ 7.5-8' bgs
	SB-80-21	10.5	3.7	3.0		Red Brown Clay with gray mottling	
	SB-81-21	8.0	2.1	0.6			
	SB-82-21	11.0	>11.0	>10.1			
	SB-83-21	8.0	1.3	0.2			
	SB-84-21	12.0	7.6	6.5			Sheen and slight odor @ 6.6-7.6' bgs
	SB-103-21	12.0	3.9	3.5			
14	SB-14-20	8.0	5.0	5.0	Coarse to medium to fine Sand and Gravel	Clayey SILT	
	SB-15-20	8.0	4.0	4.0			
15	SB-19-20	5.0	1.5	1.5	Coarse to medium to fine Sand and Gravel	SILT, some Clay	
	SB-20-20	5.0	2.5	2.5		SILT, some to trace Clay	
	SB-21-20	5.0	1.5	1.5		SILT, some Clay	
	SB-22-20	5.0	3.0	3.0		SILT, some to trace Clay	
	SB-23-20	5.0	3.0	3.0		SILT, some Clay	Staining and odor present @ 1-3' bgs
16	SB-10-20	5.0	1.5	1.5	Coarse to medium to fine Sand and Gravel	Clayey SILT	
	SB-11-20	5.0	1.5	1.5		SILT, some Clay	
Loading Dock	SB-07-20	4.0	>4.0	>4.0	Coarse to medium to fine Sand and Gravel	N/A (Refusal @ 4.0' bgs, 3 Tries)	
	SB-08-20	3.5	>3.5	>3.5		N/A (Refusal @ 3.5' bgs, 3 Tries)	
	SB-09-20	4.0	>4.0	>4.0		N/A (Refusal @ 4.0' bgs)	
	SB-16-20	8.5	0.5	0.5	Concrete	Clayey SILT to SILT, some Clay	
	SB-17-20	9.0	3.0	3.0	Coarse to medium to fine Sand and Gravel	SILT, some Clay	
	SB-18-20		>3.7	>3.7		N/A (Refusal @ 3.7' bgs, 2 Tries)	
	SB-90-21	10.0	2.7	1.5		Red Brown Clay with gray mottling	Staining present @ 3.1-4.3' bgs
	SB-91-21	8.0	1.5	Concrete 0.0-1.5'bgs			Staining present @ 1.5-4.5' bgs
	SB-92-21	8.0	2.5	1.1			Staining present @2.5-2.8' bgs
	SB-93-21	8.0	2.0	0.9			Staining present @ 2.0-2.5 and 3.3-3.6' bgs
	SB-94-21	1.8	0.5	0.5			

TABLE 2-**5A**

TONAWANDA FORGE, REMEDIAL DESIGN, SITE No. 915274

NYSDEC WA D009803-24

PRE-DESIGN INVESTIGATION SAMPLE PROGRAM

Analytical Methods	Samples	Field Dup	Total No of Samples
SOILS - Direct Push Soil Borings, Surface Soils			
TCL PCBs by 8082A	252	5	257
TCL Volatiles by 8260C	14	2	16
TCL Semivolatiles by 8270D	24	1	25
TAL Metals by 6010C	24	1	25
Mercury by 7471A	24	1	25
Ignitability by 1030	2	0	2
SOILS - Test Pits			
TCL PCBs by 8082A	11	1	12
TCL Volatiles by 8260C	8	1	9
TCL Semivolatiles by 8270D	9	1	10
TAL Metals by 6010C	9	1	10
Mercury by 7471A	9	1	10
Full TCLP	2	0	2
Ignitability by 1030	2	0	2
Corrosivity by 9045C	2	0	2
Reactivity by Chapter 7 Section 7.3	2	0	2
LNAPL			
TCL PCBs by 8082A	2	0	2
TCL VOCs by 8260C	2	0	2
TCL Semivolatiles by 8270D	2	0	2
TAL Metals by 6010C	2	0	2
Mercury by 7471A	2	0	2
BTU by ASTM D240	2	0	2
Fuel Fingerprint by 310-14	2	0	2
Ignitability by 1010	2	0	2
pH by 9045C	2	0	2
Reactivity	2	0	2
Concrete Chips, Brick Chips and Wood Cores			
TCL PCBs by 8082A	25	2	27
Sewer Sediment (16)			
TCL Volatiles by 8260C	15	1	16
TCL Semivolatiles by 8270D	15	1	16
TCL PCBs by 8082A	16	1	17
TAL Metals by 6010C	15	1	16
Mercury by 7470A	11	1	12
Cyanide by 9012B	15	1	16
Full TCLP	10	1	11
Ignitability by 1010	9	1	10
Corrosivity	11	1	12
Reactivity	11	1	12

TABLE 2-**5A**

TONAWANDA FORGE, REMEDIAL DESIGN, SITE No. 915274

NYSDEC WA D009803-24

PRE-DESIGN INVESTIGATION SAMPLE PROGRAM

Analytical Methods	Samples	Field Dup	Total No of Samples
Sewer Water (16) and Surface Water (5)			
PP Volatiles by 624.1	21	1	22
PP Semivolatiles by 625.1	21	1	22
PP Pesticides/PCBs by 608.3	21	1	22
PP Metals by 200.8	21	1	22
Dissolved Metals by 200.8	21	1	22
Mercury by 245.1	21	1	22
Dissolved Mercury by 245.1	21	1	22
Cyanide by 9012B	21	1	22
Hexavalent Chromium by 218.6	9	1	10
Alkalinity, Total by 310.1	9	1	10
Biochemical Oxygen Demand (BOD) by SM5210B	9	1	10
Chemical Oxygen Demand (COD) by 410.4	9	1	10
Flash Point by 1010A	10	1	11
Hardness by 130.1	9	1	10
Oil & Grease by 1664B	9	1	10
Phenolics, Total Recoverable by 420.1	9	1	10
Total Dissolved Solids by 160.1	9	1	10
Total Suspended Solids by SM4500D	9	1	10
Nitrate by 300.0	9	1	10
Nitrite by 353.2	9	1	10
Nitrate- Nitrite by 353.2	6	1	7
Total Kjeldahl Nitrogen by 351.2	9	1	10
Ammonia by 350.2	9	1	10
2,3,7,8-TCDD by 1613	3	0	3

PCBs - Polychlorinated biphenyls.

PP - Priority Pollutant.

TCLP - Toxicity Characteristics Leaching Procedure.

Full TCLP includes Volatiles, Semivolatiles, Pesticides, Herbicides and Metals.

TAL - Target Analyte List.

TCL - Target compound List.

TABLE 2-5B
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24.1
PHASE II ANALYTICAL PROGRAM

Analysis	Number of Samples	Field Dup	MS	MSD	Total number of analyses
SURFACE SOILS					
Target Compound List (TCL) PCB by SW846 Method 8082	14	1	1	1	17
TCL SVOCs by SW846 Method 8270 (AOC-01)	2	0	0	0	2
Arsenic by SW846 Method 6010 (AOC-01)	2	0	0	0	2
SOIL BORINGS					
TCL PCB by SW846 Method 8082	71	3	3	3	80
TCL SVOCs by SW846 Method 8270 (AOC-01)	27	2	2	2	33
Arsenic by SW846 Method 6010 (AOC-01)	27	2	2	2	33
IMPERVIOUS SURFACE					
TCL PCB by SW846 Method 8082	19	1	1	1	22
GROUNDWATER					
TCL PCB by USEPA Method 608.3	62	3	3	3	71
Dissolved (filtered) TCL PCBs by USEPA Method 608.3	62	3	3	3	71
PCB Homologs by USEPA Method 680*	20	1	1	1	23

*The number of samples is estimated. Analysis will be performed only on dissolved phase samples exceeding groundwater SCGs.

MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 2-6
GROUNDWATER ELEVATION MEASUREMENTS
JANUARY 2022
TONAWANDA FORGE SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
AOC-01-MW-10I	1082105.84	1062544.625	604.10	606.24	605.99	C		1/13/2022 0000	6.12	599.87	0.00		
AOC-01-MW-10S	1082105.17	1062547.297	604.23	603.35	606.08	A		1/13/2022 0000	4.04	602.04	0.00		
AOC-01-MW-11I	1082108.932	1062264.897	605.02	607.67	607.27	C		1/12/2022 0000	8.32	598.95	0.00		
AOC-01-MW-11S	1082105.922	1062264.299	605.09	607.38	607.19	A		1/12/2022 0000	4.80	602.39	0.00		
AOC-01-MW-12I	1081798.874	1062555.098	605.93	608.14	607.94	C		1/12/2022 0000	6.95	600.99	0.00		
AOC-01-MW-12S	1081797.306	1062552.853	605.98	607.88	607.83	A		1/12/2022 0000	5.62	602.21	0.00		
AOC-01-MW-13I	1081824.266	1062256.956	606.27	609.03	608.88	C		1/13/2022 0000	6.62	602.26	0.00		
AOC-01-MW-13S	1081822.996	1062253.406	606.27	608.82	608.57	A		1/13/2022 0000	5.33	603.24	0.00		
AOC-01-MW-14S	1082067.58	1062301.358	605.16	607.69	607.39	A		1/12/2022 0000	4.95	602.44	0.00		
AOC-01-MW-15S	1081861.704	1062629.21	605.99	608.01	607.77	A		1/12/2022 0000	4.33	603.44	0.00		
AOC-02-MW-01I	1081329.074	1061712.173	601.48	604.34	604.14	C		1/21/2022 0000	5.66	598.48	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

C Till Water Bearing Zone

TABLE 2-6
GROUNDWATER ELEVATION MEASUREMENTS
JANUARY 2022
TONAWANDA FORGE SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
AOC-02-MW-03D	1080972.858	1061347.607	601.74	604.78	604.64	C		1/20/2022 0000	25.12	579.52	0.00		
AOC-02-MW-03I	1080983.615	1061360.533	601.54	604.35	604.21	C		1/14/2022 0000	5.59	598.62	0.00		
AOC-02-MW-03S	1080981.485	1061357.989	601.57	604.13	603.92	A		1/11/2022 0000	5.11	598.81	0.00		
AOC-03-PZ-09	1081020.373	1061333.773	601.54		605.36	A		1/10/2022 0000	5.53	599.83	0.00		
AOC-03-PZ-10	1081080.382	1061291.099	601.47		604.83	A		1/11/2022 0000	4.41	600.42	0.00		
AOC-05-MW-04I	1080924.126	1061182.384	601.59	604.59	604.38	C		1/11/2022 0000	5.12	599.26	0.00		
AOC-05-MW-04S	1080923.224	1061178.871	601.53	604.65	604.38	A		1/10/2022 0000	5.09	599.29	0.00		
AOC-05-PZ-06	1080955.464	1061219.962	601.59		604.73	A		1/10/2022 0000	NM	-	0.00	-	
AOC-06-MW-06I	1080810.127	1060998.325	600.89	603.51	603.36	C		1/14/2022 0000	6.92	596.44	0.00		
AOC-06-MW-D	1080689.428	1061031.59	600.49		600.15	A		1/14/2022 0000	1.64	598.51	0.00		
AOC-07-MW-I	1080552.146	1060844.468	599.26	602.41	602.19	A		1/19/2022 0000	4.78	597.41	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

C Till Water Bearing Zone

TABLE 2-6
GROUNDWATER ELEVATION MEASUREMENTS
JANUARY 2022
TONAWANDA FORGE SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
AOC-08-MW-07I	1080634.125	1060908.364	601.19	603.64	603.38	C		1/14/2022 0000	8.41	594.97	0.00		
AOC-08-MW-07S	1080630.383	1060915.114	601.25	604.03	603.90	A		1/14/2022 0000	5.62	598.28	0.00		
AOC-08-MW-18I	1080526.588	1060859.709	599.92	603.06	602.93	C		1/19/2022 0000	6.22	596.71	0.00		
AOC-08-MW-18S	1080529.174	1060851.676	599.88	603.26	603.11	A		1/19/2022 0000	5.86	597.25	0.00		
AOC-08-PZ-05	1080530.146	1060955.726	601.72		604.79	A		1/19/2022 0000	6.87	597.92	0.00		
AOC-09-PZ-01	1080653.835	1061139.828	601.44		604.49	A		1/14/2022 0000	6.19	598.30	0.00		
AOC-09-PZ-02	1080646.086	1061230.029	602.58		605.19	A		1/20/2022 0000	7.26	597.93	0.00		
AOC-09-PZ-03	1080607.73	1061262.227	602.75		605.29	A		1/20/2022 0000	3.51	601.78	0.00		
AOC-10-MW-08I	1080582.003	1061366.961	602.68	606.04	605.59	C		1/19/2022 0000	8.98	596.61	0.00		
AOC-10-MW-08S	1080580.258	1061368.353	602.71	606.24	605.90	A		1/19/2022 0000	6.35	599.55	0.00		
AOC-10-MW-16	1080619.551	1061457.817	603.70	606.45	606.20	A		1/20/2022 0000	6.89	599.31	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

C Till Water Bearing Zone

TABLE 2-6
GROUNDWATER ELEVATION MEASUREMENTS
JANUARY 2022
TONAWANDA FORGE SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
AOC-10-PZ-04	1080606.776	1061299.731	602.42		605.40	A		1/19/2022 0000	5.45	599.95	0.00		
AOC-11-MW-C	1080779.701	1061538.03	601.40		601.08	A		1/19/2022 0000	1.30	599.78	0.00		
AOC-12-MW-09I	1080833.531	1061522.792	602.02	604.86	604.41	C		1/21/2022 0000	6.23	598.18	0.00		
AOC-12-MW-09S	1080829.801	1061521.342	602.17	604.44	604.24	A		1/21/2022 0000	5.65	598.59	0.00		
AOC-13-MW-02D	1081032.282	1061485.338	601.48	604.20	604.03	C		1/20/2022 0000	21.61	582.42	0.00		
AOC-13-MW-02I	1081027.579	1061499.839	601.37	604.58	604.36	C		1/20/2022 0000	5.73	598.63	0.00		
AOC-13-MW-02S	1081023.632	1061498.996	601.42	604.37	604.21	A		1/20/2022 0000	4.94	599.27	0.00		
AOC-13-MW-19I	1080766.088	1061390.270	601.43	604.82	604.68	C		1/20/2022 0000	6.76	597.92	0.00		
AOC-13-MW-19S	1080769.377	1061392.788	601.57	604.87	604.74	A		1/20/2022 0000	6.10	598.64	0.00		
AOC-13-MW-20I	1081140.690	1061728.019	601.44	604.28	604.15	C		1/21/2022 0000	4.82	599.33	0.00		
AOC-13-MW-20S	1081145.570	1061723.784	601.39	604.72	604.45	A		1/21/2022 0000	5.13	599.32	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

C Till Water Bearing Zone

TABLE 2-6
GROUNDWATER ELEVATION MEASUREMENTS
JANUARY 2022
TONAWANDA FORGE SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
AOC-14-MW-21I	1081204.783	1061504.263	601.52	604.85	604.72	C	0.832	1/21/2022 0000	6.85	597.87	0.00	597.87	
AOC-14-MW-21S	1081211.360	1061507.575	601.49	605.05	604.76	A		1/21/2022 0000	5.08	599.68	0.00		
AOC-16-MW-05I	1081067.944	1061032.192	601.14	603.89	603.69	C		1/11/2022 0000	5.32	598.37	0.00		
AOC-16-MW-F	1081075.973	1061040.467	601.15		600.70	A		1/10/2022 0000	2.09	598.61	0.00		
AOC-16-MW-H	1081050.565	1061102.714	601.48	601.48	601.28	A		1/10/2022 0000	3.29	597.99	0.00		
AOC-16-PZ-07	1080980.797	1061082.175	601.44		604.90	A		1/11/2022 0000	4.84	600.06	0.00		
AOC-16-PZ-08	1081069.036	1061165.956	601.49		604.60	A		1/11/2022 0000	4.56	600.04	0.00		
AOC-16-PZ-A	1081101.333	1061120.51	601.38		601.05	A		1/10/2022 0000	0.21	600.84	0.00		
AOC-16-PZ-B	1081049.075	1061083.970	601.46	604.25	603.89	A		1/11/2022 0000	7.44	596.45	0.00		
AOC-16-PZ-C	1080989.371	1061102.796	601.39		601.07	A		1/10/2022 0000	1.72	599.35	0.00		
AOC-16-PZ-D	1081034.177	1061146.139	601.35		600.94	A		1/10/2022 0000	1.61	599.33	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

C Till Water Bearing Zone

TABLE 2-6
GROUNDWATER ELEVATION MEASUREMENTS
JANUARY 2022
TONAWANDA FORGE SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-17I	1081809.623	1062679.927	603.35	606.83	606.66	C		1/13/2022 0000	10.92	595.74	0.00		
MW-22I	1081597.686	1062039.439	600.72	603.47	603.31	C		1/12/2022 0000	4.81	598.50	0.00		
MW-22S	1081594.614	1062035.492	600.89	603.84	603.70	A		1/12/2022 0000	2.76	600.94	0.00		
MW-23I	1082298.284	1062330.709	601.22	604.35	604.19	C		1/12/2022 0000	5.75	598.44	0.00		
MW-F	1081372.401	1061380.881	601.23		600.89	A		1/21/2022 0000	0.25	600.64	0.00		
MW-J	1081958.215	1062794.131	603.83	606.13	606.19	C		1/13/2022 0000	7.01	599.18	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

C Till Water Bearing Zone

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				BC-01-20	BC-05-20	BC-06-20	BC-06-20	BC-11-20
Sample ID				BC-01-20	BC-05-20	BC-06-20	FD-111220-2	BC-11-20
Matrix				Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**	**(1)**	**(2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	5.5	2.2			0.25
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	5.5	2.2			0.25

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				BC-12-20	BC-13-20	BC-14-20	BC-15-20	BC-16-20
Sample ID				BC-12-20	BC-13-20	BC-14-20	BC-15-20	BC-16-20
Matrix				Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**	**(1)**	**(2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	31			200	1.1
Aroclor 1254	MG/KG	25	50		12	2.3 J		
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	31	12	2.3	200	1.1

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				BC-17-20	BC-18-20	BC-23-20	BC-24-20	BC-25-20
Sample ID				BC-17-20	BC-18-20	BC-23-20	BC-24-20	BC-25-20
Matrix				Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**	**(1)**	**(2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	4.4				
Aroclor 1254	MG/KG	25	50		3.2	0.21		
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	4.4	3.2	0.21		

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				CC-02-20	CC-03-20	CC-04-20	CC-04-20	CC-07-20
Sample ID				CC-02-20	CC-03-20	CC-04-20	FD-111220-1	CC-07-20
Matrix				Concrete	Concrete	Concrete	Concrete	Concrete
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**	**(1)**	**(2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50				0.68 J	14
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50				0.68	14

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				CC-08-20	CC-09-20	CC-10-20	CC-20-20	CC-22-20
Sample ID				CC-08-20	CC-09-20	CC-10-20	CC-20-20	CC-22-20
Matrix				Concrete	Concrete	Concrete	Concrete	Concrete
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**	**(1)**	**(2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50	630				
Aroclor 1248	MG/KG	25	50		0.51			
Aroclor 1254	MG/KG	25	50	140			1.4	
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	770	0.51		1.4	

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				CC-23-21	CC-24-21	CC-25-21	CC-26-21	CC-27-21
Sample ID				CC-23-21	CC-24-21	CC-25-21	CC-26-21	CC-27-21
Matrix				Brick	Brick	Concrete	Concrete	Concrete
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/24/22	01/24/22	01/24/22	01/24/22	01/24/22
Parameter	**Units**	**(1)**	**(2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.24	0.83	0.22	1.2	0.32
Aroclor 1254	MG/KG	25	50	0.21	0.55	0.66	1.1	0.50
Aroclor 1260	MG/KG	25	50	0.10				
Total PCBs	MG/KG	25	50	0.55	1.38	0.88	2.3	0.82

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				CC-28-21	CC-29-21	CC-30-21	CC-31-21	CC-32-21
Sample ID				CC-28-21	CC-29-21	CC-30-21	CC-31-21	CC-32-21
Matrix				Concrete	Concrete	Brick	Concrete	Brick
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/24/22	01/24/22	01/24/22	01/24/22	01/24/22
Parameter	**Units**	**(1)**	**(2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	1.7	1.6	0.12	0.86	0.35
Aroclor 1254	MG/KG	25	50	1.2	6.2	1.3	4.2	0.86
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	2.9	7.8	1.42	5.06	1.21

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				CC-33-21	CC-33-21	CC-34-21	CC-35-21	CC-36-21
Sample ID				CC-33-21	FD-20220124-1	CC-34-21	CC-35-21	CC-36-21
Matrix				Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/24/22	01/24/22	01/24/22	01/24/22	01/24/22
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.59	0.50		0.16	0.22
Aroclor 1254	MG/KG	25	50	6.9	7.0		0.84	0.91
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	7.49	7.5		1.0	1.13

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				CC-37-21	CC-38-21	CC-39-21	CC-40-21	CC-41-21
Sample ID				CC-37-21	CC-38-21	CC-39-21	CC-40-21	CC-41-21
Matrix				Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/24/22	01/24/22	01/24/22	01/24/22	01/24/22
Parameter	**Units**	**(1)**	**(2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.079 J	7.3	0.13	0.25	1.8
Aroclor 1254	MG/KG	25	50	0.15	3.9	0.11	0.16	1.2
Aroclor 1260	MG/KG	25	50					0.17
Total PCBs	MG/KG	25	50	0.229	11.2	0.24	0.41	3.17

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-1
IMPERVIOUS SURFACE SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				WC-19-20	WC-21-20
Sample ID				WC-19-20	WC-21-20
Matrix				Wood	Wood
Depth Interval (ft)				-	-
Date Sampled				11/12/20	11/12/20
Parameter	**Units**	**(1)**	**(2)**		
Polychlorinated Biphenyls					
Aroclor 1242	MG/KG	25	50		
Aroclor 1248	MG/KG	25	50		39 NJ
Aroclor 1254	MG/KG	25	50	21	20 NJ
Aroclor 1260	MG/KG	25	50		
Total PCBs	MG/KG	25	50	21	59

(1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

(2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-02-20	SB-03A-20	SB-05-20	SB-06-20	SB-08-20
Sample ID				SB-02-20-0-0.5	SB-03A-20-0-0.5	SB-05-20-0-0.5	SB-06-20-0-0.5	SB-08-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-1.0
Date Sampled				11/04/20	11/05/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	0.73 J	0.11 J		0.056 J	
Aroclor 1254	MG/KG	25	50			0.13 J		0.25 J
Aroclor 1260	MG/KG	25	50	0.16 J				
Total PCBs	MG/KG	25	50	0.89	0.11	0.13	0.056	0.25

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-26-20	SB-27-20	SB-28-20	SB-29-20	SB-30-20
Sample ID				SB-26-20-0-0.5	SB-27-20-0-0.5	SB-28-20-0-0.5	SB-29-20-0-0.5	SB-30-20-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	2.3 J	4.0 J			
Aroclor 1254	MG/KG	25	50			3.8 J	1.6	
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	2.3	4	3.8	1.6	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-31-20	SB-34-20	SB-35-20	SB-38-20	SB-39-20
Sample ID				SB-31-20-0-0.5	SB-34-20-0.0-0.5	SB-35-20-0.0-0.5	SB-38-20-0.0-0.5	SB-39-20-0.0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/06/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50		6.6	5.9		
Aroclor 1254	MG/KG	25	50				2.4	19
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		6.6	5.9	2.4	19

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-42-20	SB-43-20	SB-44-20	SB-45-20	SB-46-20
Sample ID				SB-42-20-0.0-1.0	SB-43-20-0-0.5	SB-44-20-0-0.5	SB-45-20-0-0.5	SB-46-20-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/09/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50		1.5	63	930	0.81 J
Aroclor 1254	MG/KG	25	50	29				
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	29	1.5	63	930	0.81

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-47-20	SB-48-20	SB-49-20	SB-50-20	SB-51-20
Sample ID				SB-47-20-0-0.5	SB-48-20-0-0.5	SB-49-20-0.0-0.5	SB-50-20-0-1	SB-51-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled				11/06/20	11/03/20	11/09/20	11/04/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50			7.3		
Aroclor 1254	MG/KG	25	50		3.6 J		0.22 J	65
Aroclor 1260	MG/KG	25	50	0.19 J				
Total PCBs	MG/KG	25	50	0.19	3.6	7.3	0.22	65

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-52-20	SB-53-20	SB-54-20	SB-55-20	SB-58-20
Sample ID				SB-52-20-0-0.5	SB-53-20-0.5-1	SB-54-20-0.5-1	SB-55-20-0.0-0.5	SB-58-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.5-1.0	0.5-1.0	0.0-0.5	0.0-1.0
Date Sampled				11/06/20	11/03/20	11/03/20	11/09/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	5.6	35 NJ	0.71		1.4 J
Aroclor 1254	MG/KG	25	50		14 NJ			
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	5.6	49	0.71		1.4

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

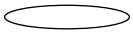
TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

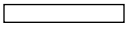
Location ID				SB-59-20	SB-60-20	SB-61-20	SB-62-20	SB-63-20
Sample ID				SB-59-20-0-1	SB-60-20-0-1	SB-61-20-0-1	SB-62-20-0-1	SB-63-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	3.2	17	3.0 J	1.7 J	0.057 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	3.2	17	3	1.7	0.057

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SO' AND ([SED] = '0' OR [SED] = '0.16' OR [SED] = '0.167' OR [SED] = '0.2' OR [SED] = '0.5' OR [SED] = '1') AND ([PRCCODE] = 'PCB')

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-64-20	SB-65-20	SB-66-20	SB-67-20	SB-68-20
Sample ID				SB-64-20-0-1	SB-65-20-0-1	SB-66-20-0-1	SB-67-20-0-1	SB-68-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50			0.52	0.46	320
Aroclor 1254	MG/KG	25	50	1.8				
Aroclor 1260	MG/KG	25	50			0.19 J		
Total PCBs	MG/KG	25	50	1.8		0.71	0.46	320

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-69-20	SB-70-20	SB-71-20	SB-72-20	SB-73-20
Sample ID				SB-69-20-0-1	SB-70-20-0-1	SB-71-20-0-1	SB-72-20-0-1	SB-73-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	3.1	2.2	0.46	0.68	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	3.1	2.2	0.46	0.68	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

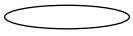
TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

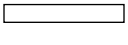
Location ID				SB-74-20	SB-75-20	SB-76-20	SB-77-20	SB-79-20
Sample ID				SB-74-20-0-1	SB-75-20-0-1	SB-76-20-0-1	SB-77-20-0-1	SB-79-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50		15		3.3 J	
Aroclor 1260	MG/KG	25	50					0.67
Total PCBs	MG/KG	25	50		15		3.3	0.67

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-94-21	SB-97-21	SF-12-20	SF-13-20	SF-20-20
Sample ID				SB-94-21-0-0.5	SB-97-21-0-0.5	SF-12-20-0-0.5	SF-13-20-0-0.5	SF-20-20-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				01/25/22	01/25/22	11/04/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50				140 J	0.58 J
Aroclor 1254	MG/KG	25	50				50	
Aroclor 1260	MG/KG	25	50					0.17 J
Total PCBs	MG/KG	25	50				190	0.75

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-21-20	SF-22-20	SF-23-20	SF-24-20	SF-25-20
Sample ID				SF-21-20-0-0.5	SF-22-20-0-0.5	SF-23-20-0-0.5	SF-24-20-0-0.5	SF-25-20-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/04/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	0.18 J				
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.18				

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-26-20	SF-27-20	SF-28-20	SF-29-20	SF-30-20
Sample ID				SF-26-20-0-0.5	SF-27-20-0-0.5	SF-28-20-0-0.5	SF-29-20-0-0.5	SF-30-20-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50				0.92	0.98
Aroclor 1260	MG/KG	25	50	0.41				
Total PCBs	MG/KG	25	50	0.41			0.92	0.98

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-31-20	SF-33-20	SF-34-20	SF-36-20	SF-36-20
Sample ID				SF-31-20-0-0.5	SF-33-20-0-0.5	SF-34-20-0-0.5	FD-110520-2	SF-36-20-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/03/20	11/04/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50		0.65 J	14 J		
Aroclor 1254	MG/KG	25	50	1.3			0.30	0.32
Aroclor 1260	MG/KG	25	50		0.14 J	3.7 J		
Total PCBs	MG/KG	25	50	1.3	0.79	17.7	0.3	0.32

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-37-21	SF-38-21	SF-39-21	SF-40-21	SF-41-21
Sample ID				SF-37-21	SF-38-21	SF-39-21	SF-40-21	SF-41-21
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				01/25/22	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50					0.38
Aroclor 1254	MG/KG	25	50	53				0.65
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	53				1.03

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-42-21	SF-43-21	SF-44-21	SF-45-21	SF-45-21
Sample ID				SF-42-21	SF-43-21	SF-44-21	FD-20220125-1	SF-45-21
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				01/25/22	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1248	MG/KG	25	50	0.24	0.39			
Aroclor 1254	MG/KG	25	50	1.2	0.17			
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	1.44	0.56			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2A
SURFACE SOILS SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				TP-06A	TP-09
Sample ID				TP-2020-06A-0.4-0.5	TP-2020-09-0.0-0.2
Matrix				Soil	Soil
Depth Interval (ft)				0.4-0.5	0.0-0.2
Date Sampled				12/08/20	12/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Polychlorinated Biphenyls					
Aroclor 1248	MG/KG	25	50	7,900	
Aroclor 1254	MG/KG	25	50		
Aroclor 1260	MG/KG	25	50		
Total PCBs	MG/KG	25	50	7,900	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SB-43-20	SB-48-20	SB-54-20	SB-79-20	SB-94-21
Sample ID				SB-43-20-0-0.5	SB-48-20-0-0.5	SB-54-20-0.5-1	SB-79-20-0-1	SB-94-21-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.5-1.0	0.0-1.0	0.0-0.5
Date Sampled				11/06/20	11/03/20	11/03/20	11/04/20	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
1-Methylnaphthalene	MG/KG	-	-	NA	NA	NA	NA	0.24 J
2-Methylnaphthalene	MG/KG	-	-					0.33 J
3&4-Methylphenol	MG/KG	-	-	NA	NA	NA	NA	
Acenaphthene	MG/KG	1000	-		0.17 J			0.51
Acenaphthylene	MG/KG	1000	-				0.20 J	
Anthracene	MG/KG	1000	-		0.36 J			1.4
Benzo(a)anthracene	MG/KG	11	-	0.042 J	1.2		0.29 J	5.2
Benzo(a)pyrene	MG/KG	1.1	-	0.048 J	1.4	0.043 J	0.40 J	5.4
Benzo(b)fluoranthene	MG/KG	11	-	0.050 J	1.6	0.055 J	0.71 J	7.1
Benzo(g,h,i)perylene	MG/KG	1000	-	0.036 J	0.89 J	0.043 J	0.42 J	3.8
Benzo(k)fluoranthene	MG/KG	110	-	0.033 J	0.66 J		0.31 J	2.9
bis(2-Ethylhexyl)phthalate	MG/KG	-	-					0.18 J
Butylbenzylphthalate	MG/KG	-	-					
Carbazole	MG/KG	-	-		0.16 J			0.87
Chrysene	MG/KG	110	-	0.042 J	1.2		0.49 J	5.6
Dibenz(a,h)anthracene	MG/KG	1.1	-		0.23 J			0.92
Dibenzofuran	MG/KG	1000	-					0.34 J
Di-n-butylphthalate	MG/KG	-	-					
Fluoranthene	MG/KG	1000	-	0.10 J	2.2	0.044 J	0.65 J	15 D
Fluorene	MG/KG	1000	-		0.12 J			0.51

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SB-43-20	SB-48-20	SB-54-20	SB-79-20	SB-94-21
Sample ID				SB-43-20-0-0.5	SB-48-20-0-0.5	SB-54-20-0.5-1	SB-79-20-0-1	SB-94-21-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.5-1.0	0.0-1.0	0.0-0.5
Date Sampled				11/06/20	11/03/20	11/03/20	11/04/20	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	0.030 J	0.79 J	0.034 J	0.34 J	4.3
Naphthalene	MG/KG	1000	-					0.31 J
Phenanthrene	MG/KG	1000	-	0.057 J	1.4		0.19 J	7.1
Phenol	MG/KG	1000	-					
Pyrene	MG/KG	1000	-	0.072 J	1.9	0.041 J	0.51 J	13 D
Total Semivolatile Organic Compounds	MG/KG	500	-	0.51	14.28	0.26	4.51	75.01

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SB-97-21	SF-20-20	SF-21-20	SF-22-20	SF-23-20
Sample ID				SB-97-21-0-0.5	SF-20-20-0-1	SF-21-20-0-1	SF-22-20-0-1	SF-23-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				01/25/22	11/04/20	11/04/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
1-Methylnaphthalene	MG/KG	-	-		NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	-	-		0.79 J	7.9 J		
3&4-Methylphenol	MG/KG	-	-	0.58 J	NA	NA	NA	NA
Acenaphthene	MG/KG	1000	-		6.9	68	0.051 J	
Acenaphthylene	MG/KG	1000	-		0.76 J	4.3 J		
Anthracene	MG/KG	1000	-	0.42 J	14	130	0.14 J	
Benzo(a)anthracene	MG/KG	11	-	2.9	45	420	0.38	0.20 J
Benzo(a)pyrene	MG/KG	1.1	-	3.5	48	470	0.39	0.26
Benzo(b)fluoranthene	MG/KG	11	-	4.8	53	540	0.46	0.32
Benzo(g,h,i)perylene	MG/KG	1000	-	3.4	24	250	0.25	0.17 J
Benzo(k)fluoranthene	MG/KG	110	-	1.8	24	200	0.26	0.14 J
bis(2-Ethylhexyl)phthalate	MG/KG	-	-					
Butylbenzylphthalate	MG/KG	-	-					0.046 J
Carbazole	MG/KG	-	-	0.50	8.5	80	0.057 J	
Chrysene	MG/KG	110	-	3.6	44	420	0.38	0.23 J
Dibenz(a,h)anthracene	MG/KG	1.1	-	0.77	8.4	77	0.076 J	0.051 J
Dibenzofuran	MG/KG	1000	-		3.3	32	0.031 J	
Di-n-butylphthalate	MG/KG	-	-	0.15 J				
Fluoranthene	MG/KG	1000	-	7.4	100	1,000	0.84	0.41
Fluorene	MG/KG	1000	-		6.0	59	0.062 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SB-97-21	SF-20-20	SF-21-20	SF-22-20	SF-23-20
Sample ID				SB-97-21-0-0.5	SF-20-20-0-1	SF-21-20-0-1	SF-22-20-0-1	SF-23-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				01/25/22	11/04/20	11/04/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	3.7	23	230	0.23	0.16 J
Naphthalene	MG/KG	1000	-	0.15 J	1.5 J	16 J		
Phenanthrene	MG/KG	1000	-	2.8	69	690	0.61	0.18 J
Phenol	MG/KG	1000	-	0.17 J				
Pyrene	MG/KG	1000	-	8.1	84	860	0.67	0.35
Total Semivolatile Organic Compounds	MG/KG	500	-	44.74	564.15	5,554.2	4.887	2.517

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-24-20	SF-25-20	SF-26-20	SF-27-20	SF-28-20
Sample ID				SF-24-20-0-1	SF-25-20-0-1	SF-26-20-0-1	SF-27-20-0-1	SF-28-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
1-Methylnaphthalene	MG/KG	-	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	-	-					
3&4-Methylphenol	MG/KG	-	-	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	1000	-					
Acenaphthylene	MG/KG	1000	-					
Anthracene	MG/KG	1000	-		0.070 J	0.41 J	0.32 J	0.46 J
Benzo(a)anthracene	MG/KG	11	-	0.51 J	0.28	2.2	1.7	2.0
Benzo(a)pyrene	MG/KG	1.1	-	0.57 J	0.33	2.7	2.1	2.4
Benzo(b)fluoranthene	MG/KG	11	-	0.65 J	0.39	3.3	2.9	2.9
Benzo(g,h,i)perylene	MG/KG	1000	-	0.33 J	0.23 J	2.0	1.9	1.8
Benzo(k)fluoranthene	MG/KG	110	-	0.32 J	0.20 J	1.6	1.4	1.5
bis(2-Ethylhexyl)phthalate	MG/KG	-	-					
Butylbenzylphthalate	MG/KG	-	-					
Carbazole	MG/KG	-	-		0.037 J	0.23 J	0.18 J	0.16 J
Chrysene	MG/KG	110	-	0.40 J	0.30	2.4	2.0	2.2
Dibenz(a,h)anthracene	MG/KG	1.1	-		0.066 J	0.52 J	0.39 J	0.48 J
Dibenzofuran	MG/KG	1000	-					
Di-n-butylphthalate	MG/KG	-	-					
Fluoranthene	MG/KG	1000	-	1.0 J	0.61	4.6	3.6	4.2
Fluorene	MG/KG	1000	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-24-20	SF-25-20	SF-26-20	SF-27-20	SF-28-20
Sample ID				SF-24-20-0-1	SF-25-20-0-1	SF-26-20-0-1	SF-27-20-0-1	SF-28-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	0.31 J	0.20 J	1.8	1.6	1.6
Naphthalene	MG/KG	1000	-					
Phenanthrene	MG/KG	1000	-	0.60 J	0.37	2.1	1.5	1.9
Phenol	MG/KG	1000	-					
Pyrene	MG/KG	1000	-	0.78 J	0.51	3.7	2.7	3.3
Total Semivolatile Organic Compounds	MG/KG	500	-	5.47	3.593	27.56	22.29	24.9

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-29-20	SF-30-20	SF-31-20	SF-33-20	SF-34-20
Sample ID				SF-29-20-0-1	SF-30-20-0-1	SF-31-20-0-1	SF-33-20-0-1	SF-34-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/04/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
1-Methylnaphthalene	MG/KG	-	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	-	-					
3&4-Methylphenol	MG/KG	-	-	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	1000	-	0.17 J		0.16 J	1.6	0.59 J
Acenaphthylene	MG/KG	1000	-	0.30 J	0.44 J	1.0	0.20 J	
Anthracene	MG/KG	1000	-	0.58 J	0.91 J	0.83 J	3.3	1.2 J
Benzo(a)anthracene	MG/KG	11	-	3.2	4.8	5.5	13	3.0
Benzo(a)pyrene	MG/KG	1.1	-	4.3	5.7	6.6	14	3.3
Benzo(b)fluoranthene	MG/KG	11	-	6.3	7.8	9.3	15	4.1
Benzo(g,h,i)perylene	MG/KG	1000	-	3.4	4.7	4.9	7.0	2.1
Benzo(k)fluoranthene	MG/KG	110	-	2.3	3.3	4.0	7.8	1.8
bis(2-Ethylhexyl)phthalate	MG/KG	-	-					
Butylbenzylphthalate	MG/KG	-	-					
Carbazole	MG/KG	-	-	0.43 J	0.32 J	0.54 J	2.0	0.71 J
Chrysene	MG/KG	110	-	4.3	5.3	6.1	12	2.9
Dibenz(a,h)anthracene	MG/KG	1.1	-	0.88 J	1.3 J	1.2	2.4	0.70 J
Dibenzofuran	MG/KG	1000	-				0.70 J	0.32 J
Di-n-butylphthalate	MG/KG	-	-					
Fluoranthene	MG/KG	1000	-	7.6	11	9.6	29	7.3
Fluorene	MG/KG	1000	-	0.16 J		0.14 J	1.4	0.46 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-29-20	SF-30-20	SF-31-20	SF-33-20	SF-34-20
Sample ID				SF-29-20-0-1	SF-30-20-0-1	SF-31-20-0-1	SF-33-20-0-1	SF-34-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/04/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	3.1	4.3	4.5	6.6	2.0
Naphthalene	MG/KG	1000	-				0.35 J	
Phenanthrene	MG/KG	1000	-	3.0	4.0	2.9	17	4.9
Phenol	MG/KG	1000	-					
Pyrene	MG/KG	1000	-	5.9	8.6	9.7	21	5.2
Total Semivolatile Organic Compounds	MG/KG	500	-	45.92	62.47	66.97	154.35	40.58

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-36-20	SF-36-20	SF-44-21	SF-44-21	SF-45-21
Sample ID				FD-110520-3	SF-36-20-0-1	SF-44-21	SF-44-21	FD-20220125-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/05/20	11/05/20	01/25/22	01/25/22	01/25/22
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)			(1-2)	Field Duplicate (1-1)
Semivolatile Organic Compounds								
1-Methylnaphthalene	MG/KG	-	-	NA	NA			0.11 J
2-Methylnaphthalene	MG/KG	-	-					0.17 J
3&4-Methylphenol	MG/KG	-	-	NA	NA			
Acenaphthene	MG/KG	1000	-					
Acenaphthylene	MG/KG	1000	-					
Anthracene	MG/KG	1000	-					0.11 J
Benzo(a)anthracene	MG/KG	11	-	0.33 J		0.15 J	0.16 J	0.69
Benzo(a)pyrene	MG/KG	1.1	-	0.38 J		0.18 J	0.19 J	0.78
Benzo(b)fluoranthene	MG/KG	11	-	0.43 J		0.26	0.25	1.0
Benzo(g,h,i)perylene	MG/KG	1000	-	0.32 J		0.12 J	0.15 J	0.71
Benzo(k)fluoranthene	MG/KG	110	-	0.28 J		0.10 J	0.10 J	0.42
bis(2-Ethylhexyl)phthalate	MG/KG	-	-					
Butylbenzylphthalate	MG/KG	-	-					
Carbazole	MG/KG	-	-					0.11 J
Chrysene	MG/KG	110	-	0.33 J		0.18 J	0.19 J	0.81
Dibenz(a,h)anthracene	MG/KG	1.1	-					0.17 J
Dibenzofuran	MG/KG	1000	-					
Di-n-butylphthalate	MG/KG	-	-					
Fluoranthene	MG/KG	1000	-	0.69 J	0.96 J	0.37	0.37	1.5
Fluorene	MG/KG	1000	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-36-20	SF-36-20	SF-44-21	SF-44-21	SF-45-21
Sample ID				FD-110520-3	SF-36-20-0-1	SF-44-21	SF-44-21	FD-20220125-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/05/20	11/05/20	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)			(1-2)	Field Duplicate (1-1)
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	0.27 J		0.14 J	0.17 J	0.79
Naphthalene	MG/KG	1000	-					0.12 J
Phenanthrene	MG/KG	1000	-	0.42 J		0.20 J	0.20 J	0.76
Phenol	MG/KG	1000	-					
Pyrene	MG/KG	1000	-	0.52 J		0.31	0.32	1.5
Total Semivolatile Organic Compounds	MG/KG	500	-	3.97	0.96	2.01	2.1	9.75

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-45-21	TP-06A	TP-09
Sample ID				SF-45-21	TP-2020-06A-0.4-0.5	TP-2020-09-0.0-0.2
Matrix				Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.4-0.5	0.0-0.2
Date Sampled				01/25/22	12/08/20	12/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			
Semivolatile Organic Compounds						
1-Methylnaphthalene	MG/KG	-	-	0.089 J	NA	NA
2-Methylnaphthalene	MG/KG	-	-	0.14 J		
3&4-Methylphenol	MG/KG	-	-		NA	NA
Acenaphthene	MG/KG	1000	-			0.35 J
Acenaphthylene	MG/KG	1000	-			
Anthracene	MG/KG	1000	-	0.091 J		0.57 J
Benzo(a)anthracene	MG/KG	11	-	0.55		1.9
Benzo(a)pyrene	MG/KG	1.1	-	0.64		1.9
Benzo(b)fluoranthene	MG/KG	11	-	0.89		2.7
Benzo(g,h,i)perylene	MG/KG	1000	-	0.54		1.0 J
Benzo(k)fluoranthene	MG/KG	110	-	0.35		1.2 J
bis(2-Ethylhexyl)phthalate	MG/KG	-	-			
Butylbenzylphthalate	MG/KG	-	-			
Carbazole	MG/KG	-	-	0.086 J		0.48 J
Chrysene	MG/KG	110	-	0.67		2.2
Dibenz(a,h)anthracene	MG/KG	1.1	-	0.13 J		
Dibenzofuran	MG/KG	1000	-			
Di-n-butylphthalate	MG/KG	-	-			
Fluoranthene	MG/KG	1000	-	1.2		4.2
Fluorene	MG/KG	1000	-			0.27 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2B
SURFACE SOILS SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID				SF-45-21	TP-06A	TP-09
Sample ID				SF-45-21	TP-2020-06A-0.4-0.5	TP-2020-09-0.0-0.2
Matrix				Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.4-0.5	0.0-0.2
Date Sampled				01/25/22	12/08/20	12/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			
Semivolatile Organic Compounds						
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	0.62		0.88 J
Naphthalene	MG/KG	1000	-	0.095 J		
Phenanthrene	MG/KG	1000	-	0.63		2.9
Phenol	MG/KG	1000	-			
Pyrene	MG/KG	1000	-	1.2		3.0
Total Semivolatile Organic Compounds	MG/KG	500	-	7.921	ND	23.55

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

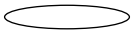
TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

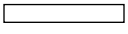
Location ID				SB-43-20	SB-48-20	SB-54-20	SB-79-20	SB-94-21
Sample ID				SB-43-20-0-0.5	SB-48-20-0-0.5	SB-54-20-0.5-1	SB-79-20-0-1	SB-94-21-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.5-1.0	0.0-1.0	0.0-0.5
Date Sampled				11/06/20	11/03/20	11/03/20	11/04/20	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Acetone	MG/KG	1000	-	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	NA	NA	NA	NA	NA
Metals								
Aluminum	MG/KG	-	-	4,840	18,100 J	4,450	31,900	NA
Arsenic	MG/KG	16	100	3.9	4.0	2.3	3.6	7.5 J
Barium	MG/KG	10000	2000	24.4	138 J	16.9	274	NA
Beryllium	MG/KG	2700	-	0.24	1.1 J	0.19 J	4.8	NA
Cadmium	MG/KG	60	20	0.39	0.15 J		0.078 J	NA
Calcium	MG/KG	-	-	83,800	29,800 J	120,000	179,000	NA
Chromium	MG/KG	6800	100	22.1	48.5 J	9.2	37.0	NA
Cobalt	MG/KG	-	-	4.1	15.9	3.3	3.1	NA
Copper	MG/KG	10000	-	26.4	76.4 J	18.3	18.4	NA
Iron	MG/KG	-	-	15,100	34,900 J	8,670	10,800	NA
Lead	MG/KG	3900	100	28.3	72.0 J	22.0	20.0	NA
Magnesium	MG/KG	-	-	34,600	13,900 J	27,300	24,800	NA
Manganese	MG/KG	10000	-	484	514 J	290	7,480	NA
Mercury	MG/KG	5.7	4	0.052	0.028	0.021	0.043	NA
Nickel	MG/KG	10000	-	20.8	97.8 J	12.8	13.1	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

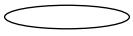
TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SB-43-20	SB-48-20	SB-54-20	SB-79-20	SB-94-21
Sample ID				SB-43-20-0-0.5	SB-48-20-0-0.5	SB-54-20-0.5-1	SB-79-20-0-1	SB-94-21-0-0.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-0.5	0.5-1.0	0.0-1.0	0.0-0.5
Date Sampled				11/06/20	11/03/20	11/03/20	11/04/20	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Potassium	MG/KG	-	-	1,550	3,010 J	1,320	2,490	NA
Selenium	MG/KG	6800	20				1.8 J	NA
Silver	MG/KG	6800	100		0.40 J	0.27 J		NA
Sodium	MG/KG	-	-	215	149	135 J	936	NA
Vanadium	MG/KG	-	-	14.8	31.8 J	9.8	15.3	NA
Zinc	MG/KG	10000	-	77.5	120 J-	32.8	24.8	NA

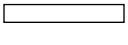
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SB-97-21	SF-20-20	SF-21-20	SF-22-20	SF-23-20
Sample ID				SB-97-21-0-0.5	SF-20-20-0-1	SF-21-20-0-1	SF-22-20-0-1	SF-23-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				01/25/22	11/04/20	11/04/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Acetone	MG/KG	1000	-	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	NA	NA	NA	NA	NA
Metals								
Aluminum	MG/KG	-	-	NA	6,090	4,260	25,300	19,700
Arsenic	MG/KG	16	100	5.3 J	4.6	6.7	10.7	7.3
Barium	MG/KG	10000	2000	NA	41.1	37.4	147	119
Beryllium	MG/KG	2700	-	NA	0.59	0.22 J	1.3	0.90
Cadmium	MG/KG	60	20	NA	0.060 J	0.62	0.50	1.1
Calcium	MG/KG	-	-	NA	158,000	146,000	14,300	10,500
Chromium	MG/KG	6800	100	NA	46.8	215	48.5	57.7
Cobalt	MG/KG	-	-	NA	6.2	20.0	13.3	10.4
Copper	MG/KG	10000	-	NA	119	140	29.4	31.8
Iron	MG/KG	-	-	NA	22,000	76,400	51,300	24,100
Lead	MG/KG	3900	100	NA	35.7	107	59.3	56.1
Magnesium	MG/KG	-	-	NA	40,000	51,700	6,810	6,610
Manganese	MG/KG	10000	-	NA	533	1,130	572	439
Mercury	MG/KG	5.7	4	NA	0.032	0.024	0.12	0.11
Nickel	MG/KG	10000	-	NA	70.2	273	36.0	30.7

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SB-97-21	SF-20-20	SF-21-20	SF-22-20	SF-23-20
Sample ID				SB-97-21-0-0.5	SF-20-20-0-1	SF-21-20-0-1	SF-22-20-0-1	SF-23-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.5	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				01/25/22	11/04/20	11/04/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Potassium	MG/KG	-	-	NA	1,460	1,170	4,300	3,200
Selenium	MG/KG	6800	20	NA			5.6	2.5 J
Silver	MG/KG	6800	100	NA	0.38 J	1.1 J	0.38 J	0.52 J
Sodium	MG/KG	-	-	NA	251	241	141 J	185 J
Vanadium	MG/KG	-	-	NA	13.3	43.9	53.1	37.5
Zinc	MG/KG	10000	-	NA	86.2	205	139	166

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SF-24-20	SF-25-20	SF-26-20	SF-27-20	SF-28-20
Sample ID				SF-24-20-0-1	SF-25-20-0-1	SF-26-20-0-1	SF-27-20-0-1	SF-28-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Acetone	MG/KG	1000	-	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	NA	NA	NA	NA	NA
Metals								
Aluminum	MG/KG	-	-	25,000	25,900	13,000	18,500	21,100
Arsenic	MG/KG	16	100	6.8	7.0	5.9	6.8	5.2
Barium	MG/KG	10000	2000	137	125	92.3	103	132
Beryllium	MG/KG	2700	-	1.0	1.1	0.76	0.83	1.1
Cadmium	MG/KG	60	20	0.32	0.98	1.1	0.48	0.31
Calcium	MG/KG	-	-	24,000	5,720	20,500	12,400	43,500
Chromium	MG/KG	6800	100	37.7	66.3	61.0	38.1	46.5
Cobalt	MG/KG	-	-	11.3	13.5	6.8	9.0	10.8
Copper	MG/KG	10000	-	27.5	34.7	46.6	24.4	27.3
Iron	MG/KG	-	-	30,800	31,100	28,100	23,500	26,200
Lead	MG/KG	3900	100	44.4	59.7	180	97.5	71.6
Magnesium	MG/KG	-	-	10,000	4,990	4,530	4,760	13,900
Manganese	MG/KG	10000	-	413	477	847	584	848
Mercury	MG/KG	5.7	4	0.15	0.10	0.13	0.11	0.11
Nickel	MG/KG	10000	-	30.9	34.9	28.0	23.5	30.4

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SF-24-20	SF-25-20	SF-26-20	SF-27-20	SF-28-20
Sample ID				SF-24-20-0-1	SF-25-20-0-1	SF-26-20-0-1	SF-27-20-0-1	SF-28-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Potassium	MG/KG	-	-	5,200	3,820	1,820	3,050	5,430
Selenium	MG/KG	6800	20	3.1 J	2.9 J	2.9 J	2.4 J	2.1 J
Silver	MG/KG	6800	100		0.34 J	0.42 J	0.34 J	
Sodium	MG/KG	-	-	199 J	143 J	306	195 J	321
Vanadium	MG/KG	-	-	46.3	49.3	26.8	34.9	43.9
Zinc	MG/KG	10000	-	152	163	224	144	113

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

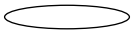
TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

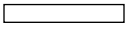
Location ID				SF-29-20	SF-30-20	SF-31-20	SF-33-20	SF-34-20
Sample ID				SF-29-20-0-1	SF-30-20-0-1	SF-31-20-0-1	SF-33-20-0-1	SF-34-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/04/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Acetone	MG/KG	1000	-	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	NA	NA	NA	NA	NA
Metals								
Aluminum	MG/KG	-	-	10,100	13,000	10,400	2,880	5,090
Arsenic	MG/KG	16	100	13.6	14.3	6.1	3.8	6.4
Barium	MG/KG	10000	2000	92.6	139	85.0	17.0	47.3
Beryllium	MG/KG	2700	-	0.81	1.6	0.77	0.16 J	0.24
Cadmium	MG/KG	60	20	1.4	1.3	1.6	0.33	0.13 J
Calcium	MG/KG	-	-	71,400	41,600	23,500	136,000	76,300
Chromium	MG/KG	6800	100	292	220	153	24.2	87.0
Cobalt	MG/KG	-	-	14.8	14.3	10.0	3.7	11.5
Copper	MG/KG	10000	-	209	163	107	19.0	123
Iron	MG/KG	-	-	116,000	102,000	71,200	10,400	82,200
Lead	MG/KG	3900	100	139	115	132	28.7	109
Magnesium	MG/KG	-	-	18,900	5,080	6,910	30,700	45,700
Manganese	MG/KG	10000	-	1,380	2,270	1,060	334	1,050
Mercury	MG/KG	5.7	4	0.13	0.16	0.35	0.018	0.057
Nickel	MG/KG	10000	-	104	111	56.1	19.0	135

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SF-29-20	SF-30-20	SF-31-20	SF-33-20	SF-34-20
Sample ID				SF-29-20-0-1	SF-30-20-0-1	SF-31-20-0-1	SF-33-20-0-1	SF-34-20-0-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/04/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Potassium	MG/KG	-	-	2,050	1,560	2,080	1,080	1,570
Selenium	MG/KG	6800	20		1.7 J			
Silver	MG/KG	6800	100					1.1 J
Sodium	MG/KG	-	-	180	344	131 J	151	171
Vanadium	MG/KG	-	-	24.6	23.9	20.8	7.7	19.2
Zinc	MG/KG	10000	-	222	229	235	118	170

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

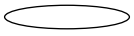
TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SF-36-20	SF-36-20	SF-44-21	SF-45-21	SF-45-21
Sample ID				FD-110520-3	SF-36-20-0-1	SF-44-21	FD-20220125-1	SF-45-21
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/05/20	11/05/20	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatile Organic Compounds								
Acetone	MG/KG	1000	-	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	NA	NA	NA	NA	NA
Metals								
Aluminum	MG/KG	-	-	5,160	4,130	NA	NA	NA
Arsenic	MG/KG	16	100	2.8	3.7	5.1	8.5	8.2
Barium	MG/KG	10000	2000	62.9	49.0 J+	NA	NA	NA
Beryllium	MG/KG	2700	-	0.67	0.41	NA	NA	NA
Cadmium	MG/KG	60	20			NA	NA	NA
Calcium	MG/KG	-	-	138,000	135,000	NA	NA	NA
Chromium	MG/KG	6800	100	52.3 J	88.4 J-	NA	NA	NA
Cobalt	MG/KG	-	-	6.3	9.7	NA	NA	NA
Copper	MG/KG	10000	-	71.3 J	141 J-	NA	NA	NA
Iron	MG/KG	-	-	30,000	48,400	NA	NA	NA
Lead	MG/KG	3900	100	43.0 J	71.1 J-	NA	NA	NA
Magnesium	MG/KG	-	-	21,600	16,800	NA	NA	NA
Manganese	MG/KG	10000	-	808	747 J+	NA	NA	NA
Mercury	MG/KG	5.7	4	0.032	0.028	NA	NA	NA
Nickel	MG/KG	10000	-	106	155 J-	NA	NA	NA

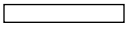
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				SF-36-20	SF-36-20	SF-44-21	SF-45-21	SF-45-21
Sample ID				FD-110520-3	SF-36-20-0-1	SF-44-21	FD-20220125-1	SF-45-21
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-1.0	0.0-1.0	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled				11/05/20	11/05/20	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)			Field Duplicate (1-1)	
Metals								
Potassium	MG/KG	-	-	998	1,080	NA	NA	NA
Selenium	MG/KG	6800	20			NA	NA	NA
Silver	MG/KG	6800	100	0.49 J	0.80	NA	NA	NA
Sodium	MG/KG	-	-	202	182	NA	NA	NA
Vanadium	MG/KG	-	-	9.4	12.4	NA	NA	NA
Zinc	MG/KG	10000	-	99.9	133 J-	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				TP-06A	TP-09
Sample ID				TP-2020-06A-0.4-0.5	TP-2020-09-0.0-0.2
Matrix				Soil	Soil
Depth Interval (ft)				0.4-0.5	0.0-0.2
Date Sampled				12/08/20	12/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Volatile Organic Compounds					
Acetone	MG/KG	1000	-	0.0097 J	
Ethylbenzene	MG/KG	780	-	0.00043 J	
Toluene	MG/KG	1000	-	0.00077 J	0.0045 J
Xylene (total)	MG/KG	1000	-	0.0016 J	
Metals					
Aluminum	MG/KG	-	-	41,000	4,070
Arsenic	MG/KG	16	100	22.6	4.9
Barium	MG/KG	10000	2000	39.8	61.3
Beryllium	MG/KG	2700	-	0.77	0.29
Cadmium	MG/KG	60	20	0.50	1.1
Calcium	MG/KG	-	-	75,200	121,000
Chromium	MG/KG	6800	100	84.9	136
Cobalt	MG/KG	-	-	7.3	12.3
Copper	MG/KG	10000	-	21.3	199
Iron	MG/KG	-	-	17,000	69,400
Lead	MG/KG	3900	100	50.2	115
Magnesium	MG/KG	-	-	5,640	53,900
Manganese	MG/KG	10000	-	310	1,040
Mercury	MG/KG	5.7	4		0.037
Nickel	MG/KG	10000	-	36.5	211

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-2C
SURFACE SOILS SAMPLE SUMMARY (VOCs and METALS)
TONAWANDA FORGE SITE

Location ID				TP-06A	TP-09
Sample ID				TP-2020-06A-0.4-0.5	TP-2020-09-0.0-0.2
Matrix				Soil	Soil
Depth Interval (ft)				0.4-0.5	0.0-0.2
Date Sampled				12/08/20	12/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Metals					
Potassium	MG/KG	-	-	1,930	1,090
Selenium	MG/KG	6800	20	1.2 J	6.5 J
Silver	MG/KG	6800	100	0.29 J	0.97 J
Sodium	MG/KG	-	-	2,220	200
Vanadium	MG/KG	-	-	63.3	17.7
Zinc	MG/KG	10000	-	31.3	492

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID				SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-1-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	1.0-1.5
Date Sampled				11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					0.97 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					0.28
Total PCBs	MG/KG	25	50					1.25

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-02-20	SB-02-20	SB-03-20	SB-03-20	SB-03-20
Sample ID				SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3	SB-03-20-3-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0	3.0-4.0
Date Sampled				11/04/20	11/04/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	7.1	12		1.1 J	0.59 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50	1.4			1.9	0.69
Total PCBs	MG/KG	25	50	8.5	12		3	1.28

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-04-20
Sample ID				SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5	SB-03A-20-6-7	SB-04-20-0.8-1.3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-1.5	2.0-3.0	4.0-5.0	6.0-7.0	0.8-1.3
Date Sampled				11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.44 J	0.59		0.059 J	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50	0.18 J	0.12 J			1.2
Total PCBs	MG/KG	25	50	0.62	0.72		0.059	1.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

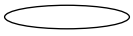
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-04-20	SB-04-20	SB-04-20	SB-04-20	SB-05-20
Sample ID				SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8	SB-04-20-6.8-7.8	SB-05-20-1-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.8-2.3	2.8-3.8	4.8-5.8	6.8-7.8	1.0-1.5
Date Sampled				11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50		0.24 J			
Aroclor 1248	MG/KG	25	50	0.98		1.4 J	1.3	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50	0.89	0.26 J			
Total PCBs	MG/KG	25	50	1.87	0.5	1.4	1.3	

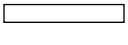
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-05-20	SB-05-20	SB-05-20	SB-06-20	SB-06-20
Sample ID				SB-05-20-2-3	SB-05-20-4-5	SB-05-20-6-7	SB-06-20-2-3	FD-110520-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-3.0	4.0-5.0	6.0-7.0	2.0-3.0	4.0-5.0
Date Sampled				11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					Field Duplicate (1-1)
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	8.0 J		0.17 J	0.90	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	8		0.17	0.9	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-06-20	SB-06-20	SB-07-20	SB-08-20	SB-09-20
Sample ID				SB-06-20-4-5	SB-06-20-6-7	SB-07-20-0-4	SB-08-20-2-3	SB-09-20-0.6-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	6.0-7.0	0.0-4.0	2.0-3.0	0.6-4.0
Date Sampled				11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-100-21	SB-100-21	SB-101-21	SB-101-21	SB-101-21
Sample ID				SB-100-21-1-2	SB-100-21-2-3	SB-101-21-1.0-2.0	FD-20220128-1	SB-101-21-2.0-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	2.0-3.0	1.0-2.0	2.0-2.5	2.0-2.5
Date Sampled				01/28/22	01/28/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50			0.55	1.8	2.2
Aroclor 1254	MG/KG	25	50			0.66		1.5
Aroclor 1260	MG/KG	25	50			0.30	0.22	0.29
Total PCBs	MG/KG	25	50			1.51	2.02	3.99

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

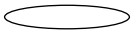
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

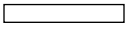
Location ID				SB-10-20	SB-10-20	SB-10-20	SB-102-21	SB-102-21
Sample ID				SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-102-21-1.0-2.0	SB-102-21-2.0-3.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-1.5	2.0-2.5	4.0-5.0	1.0-2.0	2.0-3.0
Date Sampled				11/05/20	11/05/20	11/05/20	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50	2.3	0.32 J			
Aroclor 1248	MG/KG	25	50				0.69	0.82
Aroclor 1254	MG/KG	25	50				0.97	
Aroclor 1260	MG/KG	25	50				0.30	
Total PCBs	MG/KG	25	50	2.3	0.32		1.96	0.82

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

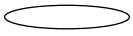
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-103-21	SB-103-21	SB-103-21	SB-11-20	SB-12-20
Sample ID				SB-103-21-3.5-4.0	SB-103-21-11.2-11.5	SB-103-11.8-12.0	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	11.2-11.5	11.8-12.0	1.0-5.0	8.5-9.5
Date Sampled				01/27/22	01/27/22	01/27/22	11/05/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50				0.24 J	
Aroclor 1248	MG/KG	25	50	0.083 J				
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.083			0.24	

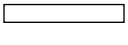
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID				SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled				11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					2.0
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID				SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled				11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50	0.073 J				
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.073				

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

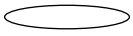
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID				SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled				11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50				4.6	0.16 J
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50				4.6	0.16

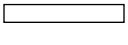
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

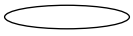
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

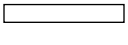
Location ID				SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID				SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled				11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

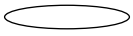
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

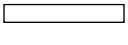
Location ID				SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID				SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled				11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

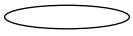
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

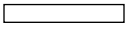
Location ID				SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-24-20
Sample ID				SB-22-20-4.0-4.5	SB-23-20-1-1.5	SB-23-20-2-2.5	SB-23-20-4-5	SB-24-20-1-2
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	1.0-1.5	2.0-2.5	4.0-5.0	1.0-2.0
Date Sampled				11/09/20	11/05/20	11/05/20	11/05/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

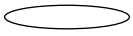
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

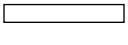
Location ID				SB-24-20	SB-25-20	SB-25-20	SB-26-20	SB-26-20
Sample ID				SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-1-1.5	SB-26-20-3-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	1.0-2.0	3.0-4.0	1.0-1.5	3.0-4.0
Date Sampled				11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50				4.8	0.071 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50				4.8	0.071

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-27-20	SB-27-20	SB-28-20	SB-28-20	SB-29-20
Sample ID				SB-27-20-1-1.5	SB-27-20-3.5-4.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-1-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-1.5	3.5-4.5	1.0-1.5	4.0-5.0	1.0-1.5
Date Sampled				11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	17	0.095 J	32	2.0 J	53
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	17	0.095	32	2	53

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-29-20	SB-30-20	SB-30-20	SB-31-20	SB-31-20
Sample ID				SB-29-20-3-4	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-1-1.5	SB-31-20-4-5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	2.0-4.0	5.0-6.0	1.0-1.5	4.0-5.0
Date Sampled				11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.11 J			3.9 J	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.59			3.9	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

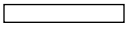
Location ID				SB-32-20	SB-32-20	SB-33-20	SB-33-20	SB-34-20
Sample ID				SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2	SB-33-20-3-4	FD-110920-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-3.5	4.5-5.5	1.0-2.0	3.0-4.0	3.0-4.0
Date Sampled				11/04/20	11/04/20	11/04/20	11/04/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					Field Duplicate (1-1)
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50		0.25 J			17 NJ
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		0.25			17

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-34-20	SB-34-20	SB-35-20	SB-36-20	SB-36-20
Sample ID				SB-34-20-3.0-4.0	SB-34-20-4.0-5.0	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	4.0-5.0	8.0-9.0	1.0-1.5	5.0-6.0
Date Sampled				11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	3.1 NJ	0.93 NJ	13	0.94	5.7 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	3.1	0.93	13	0.94	5.7

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

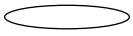
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-37-20	SB-37-20	SB-38-20	SB-38-20	SB-39-20
Sample ID				SB-37-20-0.6-3.0	SB-37-20-3.0-5.0	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-1.0-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.6-3.0	3.0-5.0	1.0-1.5	3.0-4.0	1.0-1.5
Date Sampled				11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	1.4 J+				
Aroclor 1254	MG/KG	25	50			6.0		
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	1.4		6		

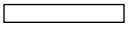
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

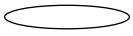
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-39-20	SB-40-20	SB-40-20	SB-41-20	SB-41-20
Sample ID				SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5	SB-41-20-3.0-4.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5	3.0-4.0
Date Sampled				11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50			4.7		
Aroclor 1254	MG/KG	25	50				79	
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50			4.7	79	

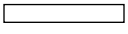
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-42-20	SB-43-20	SB-43-20	SB-44-20	SB-44-20
Sample ID				SB-42-20-2.5-3.5	SB-43-20-2-3	SB-43-20-4-5	SB-44-20-4-5	SB-44-20-8-9
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-3.5	2.0-3.0	4.0-5.0	4.0-5.0	8.0-9.0
Date Sampled				11/09/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50			0.11 J	0.38 J	0.61
Aroclor 1254	MG/KG	25	50	0.29				
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.29		0.11	0.38	0.61

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-47-20
Sample ID				SB-45-20-2-3	SB-45-20-4-5	SB-46-20-2-3	SB-46-20-4-5	SB-47-20-2-3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-3.0	4.0-5.0	2.0-3.0	4.0-5.0	2.0-3.0
Date Sampled				11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.98 J	6.0			
Aroclor 1254	MG/KG	25	50			0.53		
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.98	6	0.53		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-47-20	SB-48-20	SB-48-20	SB-49-20	SB-50-20
Sample ID				SB-47-20-4-4.8	SB-48-20-1-2	SB-48-20-2-3	SB-49-20-1.5-2.0	SB-50-20-3.5-4.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.8	1.0-2.0	2.0-3.0	1.5-2.0	3.5-4.5
Date Sampled				11/06/20	11/03/20	11/03/20	11/09/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50		20	19	39	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		20	19	39	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

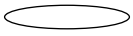
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

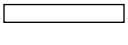
Location ID				SB-51-20	SB-51-20	SB-52-20	SB-52-20	SB-53-20
Sample ID				SB-51-20-3-4	SB-51-20-4-5	SB-52-20-1-1.5	SB-52-20-3-4	SB-53-20-3-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	4.0-5.0	1.0-1.5	3.0-4.0	3.0-4.0
Date Sampled				11/03/20	11/03/20	11/06/20	11/06/20	11/03/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50			2.2	1.6	33
Aroclor 1254	MG/KG	25	50	43	2.5			
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	43	2.5	2.2	1.6	33

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-53-20	SB-54-20	SB-54-20	SB-55-20	SB-55-20
Sample ID				SB-53-20-5-6	SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	1.5-2.0	3.5-4.5	5.0-6.0	7.0-8.0
Date Sampled				11/03/20	11/03/20	11/03/20	11/09/20	11/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	20				1.0
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	20				1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID				SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	FD-110220-2
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	2.0-3.0
Date Sampled				11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					Field Duplicate (1-1)
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					4.5 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					4.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-58-20	SB-58-20	SB-59-20	SB-59-20	SB-60-20
Sample ID				SB-58-20-2-3	SB-58-20-4-5	SB-59-20-3-4	SB-59-20-4-5	SB-60-20-3-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-3.0	4.0-5.0	3.0-4.0	4.0-5.0	3.0-4.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	5.7 J	0.38	12	420	4.2 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	5.7	0.38	12	420	4.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-60-20	SB-61-20	SB-61-20	SB-61-20	SB-62-20
Sample ID				SB-60-20-5-6	SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-2-3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	2.0-3.0	5.0-6.0	6.0-7.0	2.0-3.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	31	1.4	0.15 J	0.11 J	7.7
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	31	1.4	0.15	0.11	7.7

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-62-20	SB-63-20	SB-63-20	SB-64-20	SB-64-20
Sample ID				SB-62-20-4-5	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-2-3	SB-64-20-4-5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	1.0-2.0	4.0-5.0	2.0-3.0	4.0-5.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.85	0.32 J	0.33	0.31	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.85	0.32	0.33	0.31	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

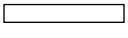
Location ID				SB-65-20	SB-65-20	SB-66-20	SB-67-20	SB-67-20
Sample ID				SB-65-20-2-3	SB-65-20-4-5	SB-66-20-1-2	SB-67-20-3-4	SB-67-20-4-5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-3.0	4.0-5.0	1.0-2.0	3.0-4.0	4.0-5.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					1.1 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					1.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

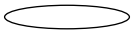
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

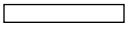
Location ID				SB-68-20	SB-68-20	SB-69-20	SB-69-20	SB-69-20
Sample ID				SB-68-20-2-3	SB-68-20-3-4	SB-69-20-1-2	SB-69-20-2-3	SB-69-20-3-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-3.0	3.0-4.0	1.0-2.0	2.0-3.0	3.0-4.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	3.7		38	25	8.1
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	3.7		38	25	8.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

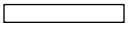
Location ID				SB-70-20	SB-70-20	SB-71-20	SB-71-20	SB-72-20
Sample ID				SB-70-20-3-4	SB-70-20-5-6	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-2-3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-6.0	1.0-2.0	2.0-3.0	2.0-3.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	12	28	1.5 J	4.8	22
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	12	28	1.5	4.8	22

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

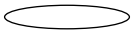
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

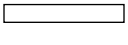
Location ID				SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-74-20
Sample ID				FD-110220-1	SB-72-20-4-5	SB-73-20-2-3	SB-73-20-3-4	SB-74-20-2-3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	4.0-5.0	2.0-3.0	3.0-4.0	2.0-3.0
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50		0.052 J	3.6 J	18 J	11
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		0.052	3.6	18	11

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-75-20	SB-76-20	SB-77-20	SB-77-20	SB-78-20
Sample ID				SB-75-20-3-4	SB-76-20-2-3	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	2.0-3.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled				11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.060 J	4.3		0.30 J	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.06	4.3		0.3	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

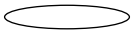
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-78-20	SB-79-20	SB-80-21	SB-80-21	SB-80-21
Sample ID				SB-78-20-4-5	SB-79-20-3.5-4.5	SB-80-21-3.0-3.7	SB-80-21-3.7-4.0	SB-80-21-10-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	3.5-4.5	3.0-3.7	3.7-4.0	10.0-10.5
Date Sampled				11/04/20	11/04/20	01/27/22	01/27/22	01/27/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					

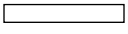
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

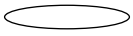
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

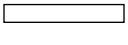
Location ID				SB-81-21	SB-81-21	SB-81-21	SB-81-21	SB-81-21
Sample ID				SB-81-21-1.7-2.1	SB-81-21-2.1-2.7	SB-81-21-3.5-4.0	FD-20220127-1	SB-81-21-5.5-6.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.7-2.1	2.1-2.7	3.5-4.0	5.5-6.0	5.5-6.0
Date Sampled				01/27/22	01/27/22	01/27/22	01/27/22	01/27/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-81-21	SB-82-21	SB-82-21	SB-82-21	SB-83-21
Sample ID				SB-81-21-7.0-8.0	SB-82-21-3.4-4.0	SB-82-21-7-8	SB-82-21-10-11	SB-83-21-1.3-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-8.0	3.4-4.0	7.0-8.0	10.0-11.0	1.3-1.5
Date Sampled				01/27/22	01/26/22	01/26/22	01/26/22	01/26/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50		0.054 J			
Aroclor 1254	MG/KG	25	50		0.058 J			
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		0.112			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-83-21	SB-83-21	SB-83-21	SB-84-21	SB-84-21
Sample ID				SB-83-21-1.5-2.0	SB-83-21-3.5-4.0	SB-83-21-7.5-8.0	SB-84-21-3.5-4.0	SB-84-21-6.6-7.6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.5-2.0	3.5-4.0	7.5-8.0	3.5-4.0	6.6-7.6
Date Sampled				01/26/22	01/26/22	01/26/22	01/27/22	01/27/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50		0.091 J		3.3	20
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		0.091		3.3	20

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

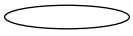
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

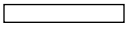
Location ID				SB-84-21	SB-84-21	SB-85-21	SB-85-21	SB-85-21
Sample ID				SB-84-21-9.0-9.5	SB-84-21-11.5-12.0	SB-85-21-1-1.5	SB-85-21-1-1.5	SB-85-21-2-3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-9.5	11.5-12.0	1.0-1.5	1.0-1.5	2.0-3.0
Date Sampled				01/27/22	01/27/22	01/26/22	01/26/22	01/26/22
Parameter	Units	Criteria (1)	Criteria (2)				(1-2)	
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50	0.60				
Aroclor 1248	MG/KG	25	50		0.27			
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.60	0.27			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-85-21	SB-85-21	SB-85-21	SB-85-21	SB-86-21
Sample ID				SB-85-21-2-3	SB-85-21-3-4	SB-85-21-3-4	SB-85-21-11-12	SB-86-21-1-1.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-3.0	3.0-4.0	3.0-4.0	11.0-12.0	1.0-1.5
Date Sampled				01/26/22	01/26/22	01/26/22	01/26/22	01/26/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	(1-2)		(1-2)		
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					2.8
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50					2.8

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

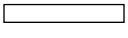
Location ID				SB-86-21	SB-86-21	SB-86-21	SB-87-21	SB-87-21
Sample ID				SB-86-21-2-2.5	SB-86-21-2.5-4.0	SB-86-21-4.0-5.3	SB-87-21-4-4.3	SB-87-21-4.3-5.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-2.5	2.5-4.0	4.0-5.3	4.0-4.3	4.3-5.0
Date Sampled				01/26/22	01/26/22	01/26/22	01/26/22	01/26/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	63	0.27	0.31	0.13	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	63	0.27	0.31	0.13	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-88-21	SB-88-21	SB-89-21	SB-89-21	SB-89-21
Sample ID				SB-88-21-1.4-1.6	SB-88-21-1.6-2.0	SB-89-21-1-1.5	SB-89-21-3-4	SB-89-21-4-5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.4-1.6	1.6-2.0	1.0-1.5	3.0-4.0	4.0-5.0
Date Sampled				01/26/22	01/26/22	01/26/22	01/26/22	01/26/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	3.8	0.25	37	0.40	1.1
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	3.8	0.25	37	0.40	1.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-90-21	SB-90-21	SB-90-21	SB-90-21	SB-90-21
Sample ID				SB-90-21-2.7-3.1	SB-90-21-3.1-3.6	SB-90-21-3.6-4.0	SB-90-21-4.0-4.3	SB-90-21-7.0-8.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.7-3.1	3.1-3.6	3.6-4.0	4.0-4.3	7.0-8.0
Date Sampled				01/27/22	01/27/22	01/27/22	01/27/22	01/27/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.98	5.7	0.99		0.11
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.98	5.7	0.99		0.11

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-91-21	SB-91-21	SB-91-21	SB-92-21	SB-92-21
Sample ID				SB-91-21-3.5-4.0	SB-91-21-4.0-4.5	SB-91-21-7.5-8.0	SB-92-21-1.5-2.0	SB-92-21-2.5-3.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.0-4.5	7.5-8.0	1.5-2.0	2.5-3.0
Date Sampled				01/27/22	01/27/22	01/27/22	01/27/22	01/27/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.74	0.20		190	1.2
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.74	0.20		190	1.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-92-21	SB-92-21	SB-93-21	SB-93-21	SB-93-21
Sample ID				SB-92-21-3.5-4.0	SB-92-21-7.5-8.0	SB-93-21-1.6-2.0	SB-93-21-2.0-2.5	SB-93-21-3.3-3.6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	7.5-8.0	1.6-2.0	2.0-2.5	3.3-3.6
Date Sampled				01/27/22	01/27/22	01/27/22	01/27/22	01/27/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	4.8	0.12	210	230	8.9
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	4.8	0.12	210	230	8.9

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

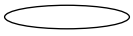
TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

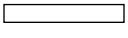
Location ID				SB-93-21	SB-93-21	SB-93-21	SB-94-21	SB-95-21
Sample ID				SB-93-21-3.6-4.0	FD-20220127-2	SB-93-21-7.0-8.0	SB-94-21-1-1.75	SB-95-21-1-2
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.6-4.0	7.0-8.0	7.0-8.0	1.0-1.8	1.0-2.0
Date Sampled				01/27/22	01/27/22	01/27/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	3.8	0.45	0.12		
Aroclor 1254	MG/KG	25	50				0.072 J	0.18
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	3.8	0.45	0.12	0.072	0.18

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-95-21	SB-96-21	SB-96-21	SB-97-21	SB-97-21
Sample ID				SB-95-21-2-2.5	SB-96-21-1-2	SB-96-21-2-3	SB-97-21-1-2	SB-97-21-2-3
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.0-2.5	1.0-2.0	2.0-3.0	1.0-2.0	2.0-3.0
Date Sampled				01/25/22	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50					
Aroclor 1254	MG/KG	25	50	0.035 J		0.16		
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.035		0.16		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SB-98-21	SB-98-21	SB-99-21	SB-99-21	SF-01-20
Sample ID				SB-98-21-1-2	SB-98-21-2-2.5	SB-99-21-1-2	SB-99-21-2-3	SF-01-20-0.6-1.1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	2.0-2.5	1.0-2.0	2.0-3.0	0.6-1.1
Date Sampled				01/28/22	01/28/22	01/28/22	01/28/22	11/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50			2.0	13	1.9
Aroclor 1254	MG/KG	25	50	0.14	0.097 J			
Aroclor 1260	MG/KG	25	50			0.16		
Total PCBs	MG/KG	25	50	0.14	0.097	2.16	13	1.9

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

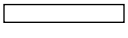
Location ID				SF-02-20	SF-03-20	SF-04-20	SF-05-20	SF-06-20
Sample ID				SF-02-20-1.1-1.6	SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.1-1.6	1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4
Date Sampled				11/10/20	11/10/20	11/10/20	11/10/20	11/11/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	5.1	26	6.9	0.35	1.8
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	5.1	26	6.9	0.35	1.8

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-07-20	SF-08-20	SF-09-20	SF-10-20	SF-11-20
Sample ID				SF-07-20-0.8-1.3	SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.8-1.3	0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6
Date Sampled				11/11/20	11/11/20	11/11/20	11/11/20	11/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.87	0.32			
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	0.87	0.32			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-14-20	SF-15-20	SF-16-20	SF-18-20	SF-32-20
Sample ID				SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6	SF-32-20-1.3-1.8
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6	1.3-1.8
Date Sampled				11/10/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	5.8		620	0.094 J	
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50	5.8		620	0.094	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				SF-35-20	TP-02	TP-03	TP-03	TP-03
Sample ID				SF-35-20-0.8-1.3	TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.8-1.3	3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5
Date Sampled				11/10/20	12/08/20	12/08/20	12/08/20	12/08/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50	0.20 J	100	650	1.2 J	0.27 J
Aroclor 1254	MG/KG	25	50					
Aroclor 1260	MG/KG	25	50				0.32 J	
Total PCBs	MG/KG	25	50	0.2	100	650	1.52	0.27

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

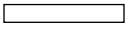
Location ID				TP-04	TP-05	TP-06D	TP-07	TP-08
Sample ID				TP-2020-04-4.0-4.3	TP-2020-05-2.4-3.0	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.3	2.4-3.0	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled				12/09/20	12/09/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Polychlorinated Biphenyls								
Aroclor 1242	MG/KG	25	50					
Aroclor 1248	MG/KG	25	50		5.1	8.0		57
Aroclor 1254	MG/KG	25	50				0.19 J	
Aroclor 1260	MG/KG	25	50					
Total PCBs	MG/KG	25	50		5.1	8	0.19	57

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3A
SUBSURFACE SOIL SAMPLE SUMMARY (PCBs)
TONAWANDA FORGE SITE

Location ID				TP-08
Sample ID				TP-2020-08-2.3-2.5
Matrix				Soil
Depth Interval (ft)				2.3-2.5
Date Sampled				12/07/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	
Polychlorinated Biphenyls				
Aroclor 1242	MG/KG	25	50	
Aroclor 1248	MG/KG	25	50	80
Aroclor 1254	MG/KG	25	50	
Aroclor 1260	MG/KG	25	50	
Total PCBs	MG/KG	25	50	80

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-100-21	SB-100-21	SB-101-21	SB-101-21	SB-101-21
Sample ID					SB-100-21-1-2	SB-100-21-2-3	SB-101-21-1.0-2.0	FD-20220128-1	SB-101-21-2.0-2.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-2.0	2.0-2.5	2.0-2.5
Date Sampled					01/28/22	01/28/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				Field Duplicate (1-1)	
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	NA	NA	NA	NA	NA
1-Methylnaphthalene	MG/KG	-	-	-			0.071 J	0.79	0.54
2-Methylnaphthalene	MG/KG	-	-	-			0.11 J	1.4	0.89
Acenaphthene	MG/KG	1000	-	-					
Acenaphthylene	MG/KG	1000	-	-			0.17 J	0.25	0.31
Acetophenone	MG/KG	-	-	-				0.089 J	
Anthracene	MG/KG	1000	-	-			0.12 J	0.14 J	0.17 J
Benzo(a)anthracene	MG/KG	11	-	-			1.0	1.1	1.3
Benzo(a)pyrene	MG/KG	1.1	-	-			1.3	1.3	1.4
Benzo(b)fluoranthene	MG/KG	11	-	-			2.1	2.2	2.8
Benzo(g,h,i)perylene	MG/KG	1000	-	-			0.95	1.3	0.98
Benzo(k)fluoranthene	MG/KG	110	-	-			0.80	0.83	1.0
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-					0.070 J
Carbazole	MG/KG	-	-	-			0.10 J	0.19 J	0.19 J
Chrysene	MG/KG	110	-	-			1.3	1.5	1.8
Dibenz(a,h)anthracene	MG/KG	1.1	-	-			0.21 J	0.28	0.23
Dibenzofuran	MG/KG	1000	-	-				0.30 J	0.23 J
Di-n-butylphthalate	MG/KG	-	-	-					
Fluoranthene	MG/KG	1000	-	-			1.8	2.5	2.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-100-21	SB-100-21	SB-101-21	SB-101-21	SB-101-21
Sample ID					SB-100-21-1-2	SB-100-21-2-3	SB-101-21-1.0-2.0	FD-20220128-1	SB-101-21-2.0-2.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-2.0	2.0-2.5	2.0-2.5
Date Sampled					01/28/22	01/28/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				Field Duplicate (1-1)	
Semivolatile Organic Compounds									
Fluorene	MG/KG	1000	-	-				0.077 J	0.073 J
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-			1.1	1.5	1.3
Naphthalene	MG/KG	1000	-	-			0.12 J	1.0	0.64
Phenanthrene	MG/KG	1000	-	-			0.61	1.0	0.92
Pyrene	MG/KG	1000	-	-			2.6	2.9	3.3
Total Semivolatile Organic Compounds	MG/KG	500	-	-	ND	ND	14.461	20.646	20.643

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-102-21	SB-102-21	SB-56-20	SB-78-20	SB-78-20
Sample ID					SB-102-21-1.0-2.0	SB-102-21-2.0-3.0	SB-56-20-1-5	SB-78-20-1.5-2.5	SB-78-20-4-5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-5.0	1.5-2.5	4.0-5.0
Date Sampled					01/28/22	01/28/22	11/05/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	NA	NA			
1-Methylnaphthalene	MG/KG	-	-	-	0.12 J		NA	NA	NA
2-Methylnaphthalene	MG/KG	-	-	-	0.20 J	0.10 J			
Acenaphthene	MG/KG	1000	-	-					
Acenaphthylene	MG/KG	1000	-	-	0.16 J	0.091 J			
Acetophenone	MG/KG	-	-	-					
Anthracene	MG/KG	1000	-	-	0.11 J				
Benzo(a)anthracene	MG/KG	11	-	-	0.70	0.36			0.11 J
Benzo(a)pyrene	MG/KG	1.1	-	-	0.82	0.40			0.11 J
Benzo(b)fluoranthene	MG/KG	11	-	-	1.4	0.69			0.11 J
Benzo(g,h,i)perylene	MG/KG	1000	-	-	0.71	0.35			0.077 J
Benzo(k)fluoranthene	MG/KG	110	-	-	0.48	0.24			0.075 J
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-	0.082 J				
Carbazole	MG/KG	-	-	-	0.099 J				
Chrysene	MG/KG	110	-	-	0.91	0.51			0.11 J
Dibenz(a,h)anthracene	MG/KG	1.1	-	-	0.17 J				
Dibenzofuran	MG/KG	1000	-	-	0.072 J				
Di-n-butylphthalate	MG/KG	-	-	-		0.21 J			
Fluoranthene	MG/KG	1000	-	-	1.2	0.87			0.23

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-102-21	SB-102-21	SB-56-20	SB-78-20	SB-78-20
Sample ID					SB-102-21-1.0-2.0	SB-102-21-2.0-3.0	SB-56-20-1-5	SB-78-20-1.5-2.5	SB-78-20-4-5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-5.0	1.5-2.5	4.0-5.0
Date Sampled					01/28/22	01/28/22	11/05/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
Fluorene	MG/KG	1000	-	-					
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-	0.86	0.42			0.062 J
Naphthalene	MG/KG	1000	-	-	0.22 J	0.082 J			
Phenanthrene	MG/KG	1000	-	-	0.48	0.20 J			0.14 J
Pyrene	MG/KG	1000	-	-	1.6	1.1			0.19
Total Semivolatile Organic Compounds	MG/KG	500	-	-	10.393	5.623	ND	ND	1.214

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-79-20	SB-94-21	SB-94-21	SB-95-21	SB-95-21
Sample ID					SB-79-20-3.5-4.5	SB-94-21-1-1.75	SB-94-21-1-1.75	SB-95-21-1-2	SB-95-21-2-2.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					3.5-4.5	1.0-1.8	1.0-1.8	1.0-2.0	2.0-2.5
Date Sampled					11/04/20	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			(1-2)		
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-		NA	NA	NA	NA
1-Methylnaphthalene	MG/KG	-	-	-	NA				
2-Methylnaphthalene	MG/KG	-	-	-					
Acenaphthene	MG/KG	1000	-	-					
Acenaphthylene	MG/KG	1000	-	-					
Acetophenone	MG/KG	-	-	-					
Anthracene	MG/KG	1000	-	-					
Benzo(a)anthracene	MG/KG	11	-	-		0.092 J	0.15 J	0.32	0.13 J
Benzo(a)pyrene	MG/KG	1.1	-	-		0.090 J	0.16 J	0.35	0.14 J
Benzo(b)fluoranthene	MG/KG	11	-	-		0.13 J	0.22 J	0.51	0.19 J
Benzo(g,h,i)perylene	MG/KG	1000	-	-			0.12 J	0.29	0.11 J
Benzo(k)fluoranthene	MG/KG	110	-	-			0.088 J	0.20 J	0.074 J
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-					
Carbazole	MG/KG	-	-	-					
Chrysene	MG/KG	110	-	-		0.11 J	0.15 J	0.39	0.15 J
Dibenz(a,h)anthracene	MG/KG	1.1	-	-					
Dibenzofuran	MG/KG	1000	-	-					
Di-n-butylphthalate	MG/KG	-	-	-					
Fluoranthene	MG/KG	1000	-	-		0.21 J	0.36	0.58	0.27

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-79-20	SB-94-21	SB-94-21	SB-95-21	SB-95-21
Sample ID					SB-79-20-3.5-4.5	SB-94-21-1-1.75	SB-94-21-1-1.75	SB-95-21-1-2	SB-95-21-2-2.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					3.5-4.5	1.0-1.8	1.0-1.8	1.0-2.0	2.0-2.5
Date Sampled					11/04/20	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			(1-2)		
Semivolatile Organic Compounds									
Fluorene	MG/KG	1000	-	-					
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-			0.14 J	0.29	0.13 J
Naphthalene	MG/KG	1000	-	-					
Phenanthrene	MG/KG	1000	-	-		0.12 J	0.23 J	0.36	0.14 J
Pyrene	MG/KG	1000	-	-		0.21 J	0.27	0.75	0.34
Total Semivolatile Organic Compounds	MG/KG	500	-	-	ND	0.962	1.888	4.04	1.674

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-96-21	SB-96-21	SB-97-21	SB-97-21	SB-98-21
Sample ID					SB-96-21-1-2	SB-96-21-2-3	SB-97-21-1-2	SB-97-21-2-3	SB-98-21-1-2
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-2.0	2.0-3.0	1.0-2.0
Date Sampled					01/25/22	01/25/22	01/25/22	01/25/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	NA	NA	NA	NA	NA
1-Methylnaphthalene	MG/KG	-	-	-					
2-Methylnaphthalene	MG/KG	-	-	-					
Acenaphthene	MG/KG	1000	-	-					
Acenaphthylene	MG/KG	1000	-	-					
Acetophenone	MG/KG	-	-	-					
Anthracene	MG/KG	1000	-	-					0.12 J
Benzo(a)anthracene	MG/KG	11	-	-	0.14 J	0.25	0.081 J	0.067 J	0.66
Benzo(a)pyrene	MG/KG	1.1	-	-	0.17 J	0.28	0.092 J	0.080 J	0.77
Benzo(b)fluoranthene	MG/KG	11	-	-	0.24	0.39	0.13 J	0.11 J	1.0
Benzo(g,h,i)perylene	MG/KG	1000	-	-	0.16 J	0.25			0.58
Benzo(k)fluoranthene	MG/KG	110	-	-	0.095 J	0.15 J			0.39
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-					
Carbazole	MG/KG	-	-	-					0.10 J
Chrysene	MG/KG	110	-	-	0.17 J	0.29	0.10 J	0.081 J	0.74
Dibenz(a,h)anthracene	MG/KG	1.1	-	-					
Dibenzofuran	MG/KG	1000	-	-					
Di-n-butylphthalate	MG/KG	-	-	-					
Fluoranthene	MG/KG	1000	-	-	0.31	0.54	0.19 J	0.15 J	1.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-96-21	SB-96-21	SB-97-21	SB-97-21	SB-98-21
Sample ID					SB-96-21-1-2	SB-96-21-2-3	SB-97-21-1-2	SB-97-21-2-3	SB-98-21-1-2
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-2.0	2.0-3.0	1.0-2.0
Date Sampled					01/25/22	01/25/22	01/25/22	01/25/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
Fluorene	MG/KG	1000	-	-					
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-	0.18 J	0.28			0.67
Naphthalene	MG/KG	1000	-	-					
Phenanthrene	MG/KG	1000	-	-	0.14 J	0.31	0.11 J		0.68
Pyrene	MG/KG	1000	-	-	0.31	0.60	0.18 J	0.17 J	1.5
Total Semivolatile Organic Compounds	MG/KG	500	-	-	1.915	3.34	0.883	0.658	8.71

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-98-21	SB-99-21	SB-99-21	SF-35-20	TP-02
Sample ID					SB-98-21-2-2.5	SB-99-21-1-2	SB-99-21-2-3	SF-35-20-0.8-1.8	TP-2020-02-3.3-3.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					2.0-2.5	1.0-2.0	2.0-3.0	0.8-1.8	3.3-3.5
Date Sampled					01/28/22	01/28/22	01/28/22	11/10/20	12/08/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	NA	NA	NA		
1-Methylnaphthalene	MG/KG	-	-	-		0.24	0.61	NA	NA
2-Methylnaphthalene	MG/KG	-	-	-		0.37	1.0		
Acenaphthene	MG/KG	1000	-	-		0.10 J	0.73		
Acenaphthylene	MG/KG	1000	-	-		0.080 J	0.22		
Acetophenone	MG/KG	-	-	-			0.072 J		
Anthracene	MG/KG	1000	-	-	0.080 J	0.24	1.6		
Benzo(a)anthracene	MG/KG	11	-	-	0.48	1.5	3.4		
Benzo(a)pyrene	MG/KG	1.1	-	-	0.53	1.7	3.3		
Benzo(b)fluoranthene	MG/KG	11	-	-	0.71	2.3	4.3	0.038 J	
Benzo(g,h,i)perylene	MG/KG	1000	-	-	0.37	1.6	2.4	0.021 J	
Benzo(k)fluoranthene	MG/KG	110	-	-	0.27	0.94	1.6		
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-			0.093 J		
Carbazole	MG/KG	-	-	-		0.18 J	0.96		
Chrysene	MG/KG	110	-	-	0.54	1.7	3.4		
Dibenz(a,h)anthracene	MG/KG	1.1	-	-		0.41	0.67		
Dibenzofuran	MG/KG	1000	-	-		0.13 J	0.69		
Di-n-butylphthalate	MG/KG	-	-	-					
Fluoranthene	MG/KG	1000	-	-	1.1	3.2	9.0 D	0.047 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					SB-98-21	SB-99-21	SB-99-21	SF-35-20	TP-02
Sample ID					SB-98-21-2-2.5	SB-99-21-1-2	SB-99-21-2-3	SF-35-20-0.8-1.8	TP-2020-02-3.3-3.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					2.0-2.5	1.0-2.0	2.0-3.0	0.8-1.8	3.3-3.5
Date Sampled					01/28/22	01/28/22	01/28/22	11/10/20	12/08/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
Fluorene	MG/KG	1000	-	-		0.087 J	0.77		
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-	0.42	1.7	2.8		
Naphthalene	MG/KG	1000	-	-		0.27	0.96		
Phenanthrene	MG/KG	1000	-	-	0.46	1.4	7.3 D		
Pyrene	MG/KG	1000	-	-	1.1	3.1	9.0 D	0.036 J	
Total Semivolatile Organic Compounds	MG/KG	500	-	-	6.06	21.247	54.875	0.142	ND

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					TP-03	TP-03	TP-04	TP-05	TP-06D
Sample ID					FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3	TP-2020-05-2.4-3.0	TP-2020-06D-4.7-4.8
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					3.3-3.5	3.3-3.5	4.0-4.3	2.4-3.0	4.7-4.8
Date Sampled					12/08/20	12/08/20	12/09/20	12/09/20	12/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-					
1-Methylnaphthalene	MG/KG	-	-	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	-	-	-		0.051 J			0.70 J
Acenaphthene	MG/KG	1000	-	-		1.2 J			2.9
Acenaphthylene	MG/KG	1000	-	-		0.030 J			
Acetophenone	MG/KG	-	-	-					
Anthracene	MG/KG	1000	-	-		1.7 J			5.6
Benzo(a)anthracene	MG/KG	11	-	-		6.9 J			13
Benzo(a)pyrene	MG/KG	1.1	-	-		8.0			11
Benzo(b)fluoranthene	MG/KG	11	-	-		9.3 J			14
Benzo(g,h,i)perylene	MG/KG	1000	-	-		4.1 J			4.9
Benzo(k)fluoranthene	MG/KG	110	-	-		3.5 J			6.8
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-					
Carbazole	MG/KG	-	-	-		0.62 J			2.7
Chrysene	MG/KG	110	-	-		6.2 J			13
Dibenz(a,h)anthracene	MG/KG	1.1	-	-		1.8 J			1.7 J
Dibenzofuran	MG/KG	1000	-	-		0.26 J			1.8 J
Di-n-butylphthalate	MG/KG	-	-	-		0.037 J			
Fluoranthene	MG/KG	1000	-	-		15 J		0.024 J	29

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					TP-03	TP-03	TP-04	TP-05	TP-06D
Sample ID					FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3	TP-2020-05-2.4-3.0	TP-2020-06D-4.7-4.8
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					3.3-3.5	3.3-3.5	4.0-4.3	2.4-3.0	4.7-4.8
Date Sampled					12/08/20	12/08/20	12/09/20	12/09/20	12/09/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
Semivolatile Organic Compounds									
Fluorene	MG/KG	1000	-	-		0.60 J			2.7
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-		4.1 J			4.5
Naphthalene	MG/KG	1000	-	-		0.11 J			1.0 J
Phenanthrene	MG/KG	1000	-	-		6.0 J			25
Pyrene	MG/KG	1000	-	-		13 J			21
Total Semivolatile Organic Compounds	MG/KG	500	-	-	ND	82.508	ND	0.024	161.3

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					TP-07	TP-08
Sample ID					TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix					Soil	Soil
Depth Interval (ft)					2.8-3.3	1.4-1.5
Date Sampled					12/09/20	12/07/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	-	-	-	0.28	
1-Methylnaphthalene	MG/KG	-	-	-	NA	NA
2-Methylnaphthalene	MG/KG	-	-	-		
Acenaphthene	MG/KG	1000	-	-		
Acenaphthylene	MG/KG	1000	-	-		
Acetophenone	MG/KG	-	-	-		
Anthracene	MG/KG	1000	-	-	0.074 J	
Benzo(a)anthracene	MG/KG	11	-	-	0.15 J	
Benzo(a)pyrene	MG/KG	1.1	-	-	0.11 J	
Benzo(b)fluoranthene	MG/KG	11	-	-	0.22	
Benzo(g,h,i)perylene	MG/KG	1000	-	-	0.052 J	
Benzo(k)fluoranthene	MG/KG	110	-	-		
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-		
Carbazole	MG/KG	-	-	-		
Chrysene	MG/KG	110	-	-	0.14 J	
Dibenz(a,h)anthracene	MG/KG	1.1	-	-		
Dibenzofuran	MG/KG	1000	-	-		
Di-n-butylphthalate	MG/KG	-	-	-		
Fluoranthene	MG/KG	1000	-	-	0.54	0.33 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3B
SUBSURFACE SOIL SAMPLE SUMMARY (SVOCs)
TONAWANDA FORGE SITE

Location ID					TP-07	TP-08
Sample ID					TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix					Soil	Soil
Depth Interval (ft)					2.8-3.3	1.4-1.5
Date Sampled					12/09/20	12/07/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Semivolatile Organic Compounds						
Fluorene	MG/KG	1000	-	-	0.14 J	
Indeno(1,2,3-cd)pyrene	MG/KG	11	-	-	0.063 J	
Naphthalene	MG/KG	1000	-	-		
Phenanthrene	MG/KG	1000	-	-	0.26	
Pyrene	MG/KG	1000	-	-	0.46	0.40 J
Total Semivolatile Organic Compounds	MG/KG	500	-	-	2.489	0.73

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-01-20	SB-04-20	SB-05-20	SB-100-21	SB-100-21
Sample ID					SB-01-20-5.8-6.8	SB-04-20-4.8-5.8	SB-05-20-2-3	SB-100-21-1-2	SB-100-21-2-3
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					5.8-6.8	4.8-5.8	2.0-3.0	1.0-2.0	2.0-3.0
Date Sampled					11/04/20	11/05/20	11/04/20	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-				NA	NA
1,2-Dichloroethane	MG/KG	60	10	-				NA	NA
1,3-Dichlorobenzene	MG/KG	560	-	-				NA	NA
1,4-Dichlorobenzene	MG/KG	250	150	-				NA	NA
Acetone	MG/KG	1000	-	-		0.019 J	0.014 J	NA	NA
Carbon disulfide	MG/KG	-	-	-				NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-				NA	NA
Methylene chloride	MG/KG	1000	-	-				NA	NA
Toluene	MG/KG	1000	-	-				NA	NA
Trichloroethene	MG/KG	400	10	-				NA	NA
Trichlorofluoromethane	MG/KG	-	-	-				NA	NA
Xylene (total)	MG/KG	1000	-	-				NA	NA
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	100	-	NA	NA	NA	8.7	11
Barium	MG/KG	10000	2000	-	NA	NA	NA	NA	NA
Beryllium	MG/KG	2700	-	-	NA	NA	NA	NA	NA
Cadmium	MG/KG	60	20	-	NA	NA	NA	NA	NA
Calcium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Chromium	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	-	-	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-01-20	SB-04-20	SB-05-20	SB-100-21	SB-100-21
Sample ID					SB-01-20-5.8-6.8	SB-04-20-4.8-5.8	SB-05-20-2-3	SB-100-21-1-2	SB-100-21-2-3
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					5.8-6.8	4.8-5.8	2.0-3.0	1.0-2.0	2.0-3.0
Date Sampled					11/04/20	11/05/20	11/04/20	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Copper	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Iron	MG/KG	-	-	-	NA	NA	NA	NA	NA
Lead	MG/KG	3900	100	-	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Manganese	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Mercury	MG/KG	5.7	4	-	NA	NA	NA	NA	NA
Nickel	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Potassium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Selenium	MG/KG	6800	20	-	NA	NA	NA	NA	NA
Silver	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Zinc	MG/KG	10000	-	-	NA	NA	NA	NA	NA
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-101-21	SB-101-21	SB-101-21	SB-102-21	SB-102-21
Sample ID					SB-101-21-1.0-2.0	FD-20220128-1	SB-101-21-2.0-2.5	SB-102-21-1.0-2.0	SB-102-21-2.0-3.0
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-2.5	2.0-2.5	1.0-2.0	2.0-3.0
Date Sampled					01/28/22	01/28/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		Field Duplicate (1-1)			
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	60	10	-	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	560	-	-	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	250	150	-	NA	NA	NA	NA	NA
Acetone	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Carbon disulfide	MG/KG	-	-	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	400	10	-	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	-	-	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	-	NA	NA	NA	NA	NA
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	100	-	12	13	17	14	11
Barium	MG/KG	10000	2000	-	NA	NA	NA	NA	NA
Beryllium	MG/KG	2700	-	-	NA	NA	NA	NA	NA
Cadmium	MG/KG	60	20	-	NA	NA	NA	NA	NA
Calcium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Chromium	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	-	-	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-101-21	SB-101-21	SB-101-21	SB-102-21	SB-102-21
Sample ID					SB-101-21-1.0-2.0	FD-20220128-1	SB-101-21-2.0-2.5	SB-102-21-1.0-2.0	SB-102-21-2.0-3.0
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-2.5	2.0-2.5	1.0-2.0	2.0-3.0
Date Sampled					01/28/22	01/28/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		Field Duplicate (1-1)			
Metals									
Copper	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Iron	MG/KG	-	-	-	NA	NA	NA	NA	NA
Lead	MG/KG	3900	100	-	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Manganese	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Mercury	MG/KG	5.7	4	-	NA	NA	NA	NA	NA
Nickel	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Potassium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Selenium	MG/KG	6800	20	-	NA	NA	NA	NA	NA
Silver	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Zinc	MG/KG	10000	-	-	NA	NA	NA	NA	NA
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-11-20	SB-14-20	SB-15-20	SB-18-20	SB-23-20
Sample ID					SB-11-20-1-5	SB-14-20-4-5	SB-15-20-4-5	SB-18-20-0-3.7	FD-110520-4
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-5.0	4.0-5.0	4.0-5.0	0.0-3.7	2.0-2.5
Date Sampled					11/05/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					Field Duplicate (1-1)
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-	0.0046 J				
1,2-Dichloroethane	MG/KG	60	10	-					
1,3-Dichlorobenzene	MG/KG	560	-	-	0.0013 J				
1,4-Dichlorobenzene	MG/KG	250	150	-				0.0015 J	
Acetone	MG/KG	1000	-	-	0.21		0.011 J	0.020 J	0.033
Carbon disulfide	MG/KG	-	-	-					0.0057 J
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-					
Methylene chloride	MG/KG	1000	-	-			0.023		
Toluene	MG/KG	1000	-	-	0.00058 J			0.0022 J	0.00065 J
Trichloroethene	MG/KG	400	10	-					
Trichlorofluoromethane	MG/KG	-	-	-					
Xylene (total)	MG/KG	1000	-	-					
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	100	-	NA	NA	NA	NA	NA
Barium	MG/KG	10000	2000	-	NA	NA	NA	NA	NA
Beryllium	MG/KG	2700	-	-	NA	NA	NA	NA	NA
Cadmium	MG/KG	60	20	-	NA	NA	NA	NA	NA
Calcium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Chromium	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	-	-	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-11-20	SB-14-20	SB-15-20	SB-18-20	SB-23-20
Sample ID					SB-11-20-1-5	SB-14-20-4-5	SB-15-20-4-5	SB-18-20-0-3.7	FD-110520-4
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-5.0	4.0-5.0	4.0-5.0	0.0-3.7	2.0-2.5
Date Sampled					11/05/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					Field Duplicate (1-1)
Metals									
Copper	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Iron	MG/KG	-	-	-	NA	NA	NA	NA	NA
Lead	MG/KG	3900	100	-	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Manganese	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Mercury	MG/KG	5.7	4	-	NA	NA	NA	NA	NA
Nickel	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Potassium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Selenium	MG/KG	6800	20	-	NA	NA	NA	NA	NA
Silver	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Zinc	MG/KG	10000	-	-	NA	NA	NA	NA	NA
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-23-20	SB-30-20	SB-35-20	SB-39-20	SB-46-20
Sample ID					SB-23-20-2-2.5	SB-30-20-2-4	SB-35-20-8.0-9.0	SB-39-20-5.0-5.5	SB-46-20-2-3
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					2.0-2.5	2.0-4.0	8.0-9.0	5.0-5.5	2.0-3.0
Date Sampled					11/05/20	11/06/20	11/09/20	11/09/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-					
1,2-Dichloroethane	MG/KG	60	10	-				0.0032 J	
1,3-Dichlorobenzene	MG/KG	560	-	-					
1,4-Dichlorobenzene	MG/KG	250	150	-					
Acetone	MG/KG	1000	-	-	0.034			0.023 J	
Carbon disulfide	MG/KG	-	-	-	0.0029 J				
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-					
Methylene chloride	MG/KG	1000	-	-					
Toluene	MG/KG	1000	-	-		0.00042 J			0.00077 J
Trichloroethene	MG/KG	400	10	-				0.0058	
Trichlorofluoromethane	MG/KG	-	-	-				0.0054 J	
Xylene (total)	MG/KG	1000	-	-					
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	100	-	NA	NA	NA	NA	NA
Barium	MG/KG	10000	2000	-	NA	NA	NA	NA	NA
Beryllium	MG/KG	2700	-	-	NA	NA	NA	NA	NA
Cadmium	MG/KG	60	20	-	NA	NA	NA	NA	NA
Calcium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Chromium	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	-	-	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-23-20	SB-30-20	SB-35-20	SB-39-20	SB-46-20
Sample ID					SB-23-20-2-2.5	SB-30-20-2-4	SB-35-20-8.0-9.0	SB-39-20-5.0-5.5	SB-46-20-2-3
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					2.0-2.5	2.0-4.0	8.0-9.0	5.0-5.5	2.0-3.0
Date Sampled					11/05/20	11/06/20	11/09/20	11/09/20	11/06/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Copper	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Iron	MG/KG	-	-	-	NA	NA	NA	NA	NA
Lead	MG/KG	3900	100	-	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Manganese	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Mercury	MG/KG	5.7	4	-	NA	NA	NA	NA	NA
Nickel	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Potassium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Selenium	MG/KG	6800	20	-	NA	NA	NA	NA	NA
Silver	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Zinc	MG/KG	10000	-	-	NA	NA	NA	NA	NA
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-55-20	SB-56-20	SB-78-20	SB-78-20	SB-79-20
Sample ID					SB-55-20-7.0-8.0	SB-56-20-1-5	SB-78-20-1.5-2.5	SB-78-20-4-5	SB-79-20-3.5-4.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					7.0-8.0	1.0-5.0	1.5-2.5	4.0-5.0	3.5-4.5
Date Sampled					11/09/20	11/05/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-		NA		NA	NA
1,2-Dichloroethane	MG/KG	60	10	-		NA		NA	NA
1,3-Dichlorobenzene	MG/KG	560	-	-		NA		NA	NA
1,4-Dichlorobenzene	MG/KG	250	150	-		NA		NA	NA
Acetone	MG/KG	1000	-	-	0.15	NA	0.073	NA	NA
Carbon disulfide	MG/KG	-	-	-		NA		NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-	0.019 J	NA	0.011 J	NA	NA
Methylene chloride	MG/KG	1000	-	-		NA		NA	NA
Toluene	MG/KG	1000	-	-	0.00080 J	NA		NA	NA
Trichloroethene	MG/KG	400	10	-	0.0036 J	NA		NA	NA
Trichlorofluoromethane	MG/KG	-	-	-		NA		NA	NA
Xylene (total)	MG/KG	1000	-	-	0.0010 J	NA		NA	NA
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	3,560	20,400	18,500	18,100
Arsenic	MG/KG	16	100	-	NA	2.3	2.0 J	2.7	4.1
Barium	MG/KG	10000	2000	-	NA	15.0	116	89.4	114
Beryllium	MG/KG	2700	-	-	NA	0.17 J	0.84	0.80	0.91
Cadmium	MG/KG	60	20	-	NA	0.11 J			
Calcium	MG/KG	-	-	-	NA	94,600	13,300	47,200	50,900
Chromium	MG/KG	6800	100	-	NA	4.9	24.3	23.3	22.5
Cobalt	MG/KG	-	-	-	NA	1.8	8.8	8.8	11.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-55-20	SB-56-20	SB-78-20	SB-78-20	SB-79-20
Sample ID					SB-55-20-7.0-8.0	SB-56-20-1-5	SB-78-20-1.5-2.5	SB-78-20-4-5	SB-79-20-3.5-4.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					7.0-8.0	1.0-5.0	1.5-2.5	4.0-5.0	3.5-4.5
Date Sampled					11/09/20	11/05/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Copper	MG/KG	10000	-	-	NA	7.9	13.2	13.9	15.7
Iron	MG/KG	-	-	-	NA	5,470	17,900	20,300	21,600
Lead	MG/KG	3900	100	-	NA	6.2	10.9	10.6	11.1
Magnesium	MG/KG	-	-	-	NA	45,500	12,000	13,100	13,200
Manganese	MG/KG	10000	-	-	NA	257	533	367	578
Mercury	MG/KG	5.7	4	-	NA		0.019	0.0094 J	0.012 J
Nickel	MG/KG	10000	-	-	NA	4.6 J	24.9	25.3	27.4
Potassium	MG/KG	-	-	-	NA	1,360	4,210	4,860	4,860
Selenium	MG/KG	6800	20	-	NA				
Silver	MG/KG	6800	100	-	NA				
Sodium	MG/KG	-	-	-	NA	197	145 J	187	211
Vanadium	MG/KG	-	-	-	NA	7.5	31.8	33.8	34.6
Zinc	MG/KG	10000	-	-	NA	29.6	51.3	55.6	47.0
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-94-21	SB-95-21	SB-95-21	SB-96-21	SB-96-21
Sample ID					SB-94-21-1-1.75	SB-95-21-1-2	SB-95-21-2-2.5	SB-96-21-1-2	SB-96-21-2-3
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-1.8	1.0-2.0	2.0-2.5	1.0-2.0	2.0-3.0
Date Sampled					01/25/22	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	60	10	-	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	560	-	-	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	250	150	-	NA	NA	NA	NA	NA
Acetone	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Carbon disulfide	MG/KG	-	-	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	400	10	-	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	-	-	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	-	NA	NA	NA	NA	NA
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	100	-	9.8	7.8	6.9	4.4 J	3.1 J
Barium	MG/KG	10000	2000	-	NA	NA	NA	NA	NA
Beryllium	MG/KG	2700	-	-	NA	NA	NA	NA	NA
Cadmium	MG/KG	60	20	-	NA	NA	NA	NA	NA
Calcium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Chromium	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	-	-	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-94-21	SB-95-21	SB-95-21	SB-96-21	SB-96-21
Sample ID					SB-94-21-1-1.75	SB-95-21-1-2	SB-95-21-2-2.5	SB-96-21-1-2	SB-96-21-2-3
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-1.8	1.0-2.0	2.0-2.5	1.0-2.0	2.0-3.0
Date Sampled					01/25/22	01/25/22	01/25/22	01/25/22	01/25/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Copper	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Iron	MG/KG	-	-	-	NA	NA	NA	NA	NA
Lead	MG/KG	3900	100	-	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Manganese	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Mercury	MG/KG	5.7	4	-	NA	NA	NA	NA	NA
Nickel	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Potassium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Selenium	MG/KG	6800	20	-	NA	NA	NA	NA	NA
Silver	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Zinc	MG/KG	10000	-	-	NA	NA	NA	NA	NA
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-97-21	SB-97-21	SB-98-21	SB-98-21	SB-99-21
Sample ID					SB-97-21-1-2	SB-97-21-2-3	SB-98-21-1-2	SB-98-21-2-2.5	SB-99-21-1-2
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-2.0	2.0-2.5	1.0-2.0
Date Sampled					01/25/22	01/25/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	60	10	-	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	560	-	-	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	250	150	-	NA	NA	NA	NA	NA
Acetone	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Carbon disulfide	MG/KG	-	-	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	-	-	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	400	10	-	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	-	-	-	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	-	-	NA	NA	NA	NA	NA
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	100	-	6.5	4.0 J	11	12	11
Barium	MG/KG	10000	2000	-	NA	NA	NA	NA	NA
Beryllium	MG/KG	2700	-	-	NA	NA	NA	NA	NA
Cadmium	MG/KG	60	20	-	NA	NA	NA	NA	NA
Calcium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Chromium	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	-	-	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-97-21	SB-97-21	SB-98-21	SB-98-21	SB-99-21
Sample ID					SB-97-21-1-2	SB-97-21-2-3	SB-98-21-1-2	SB-98-21-2-2.5	SB-99-21-1-2
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					1.0-2.0	2.0-3.0	1.0-2.0	2.0-2.5	1.0-2.0
Date Sampled					01/25/22	01/25/22	01/28/22	01/28/22	01/28/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Copper	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Iron	MG/KG	-	-	-	NA	NA	NA	NA	NA
Lead	MG/KG	3900	100	-	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Manganese	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Mercury	MG/KG	5.7	4	-	NA	NA	NA	NA	NA
Nickel	MG/KG	10000	-	-	NA	NA	NA	NA	NA
Potassium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Selenium	MG/KG	6800	20	-	NA	NA	NA	NA	NA
Silver	MG/KG	6800	100	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	-	-	NA	NA	NA	NA	NA
Zinc	MG/KG	10000	-	-	NA	NA	NA	NA	NA
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-99-21	SF-35-20	TP-02	TP-03	TP-03
Sample ID					SB-99-21-2-3	SF-35-20-0.8-1.8	TP-2020-02-3.3-3.5	FD-20201208-1	TP-2020-03-3.3-3.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					2.0-3.0	0.8-1.8	3.3-3.5	3.3-3.5	3.3-3.5
Date Sampled					01/28/22	11/10/20	12/08/20	12/08/20	12/08/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				Field Duplicate (1-1)	
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-	NA	NA			
1,2-Dichloroethane	MG/KG	60	10	-	NA	NA			
1,3-Dichlorobenzene	MG/KG	560	-	-	NA	NA			
1,4-Dichlorobenzene	MG/KG	250	150	-	NA	NA			
Acetone	MG/KG	1000	-	-	NA	NA		0.019 J	
Carbon disulfide	MG/KG	-	-	-	NA	NA			
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-	NA	NA			
Methylene chloride	MG/KG	1000	-	-	NA	NA		0.0036 J	0.0028 J
Toluene	MG/KG	1000	-	-	NA	NA		0.00088 J	0.0012 J
Trichloroethene	MG/KG	400	10	-	NA	NA			
Trichlorofluoromethane	MG/KG	-	-	-	NA	NA			
Xylene (total)	MG/KG	1000	-	-	NA	NA			
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	NA	NA	NA
Metals									
Aluminum	MG/KG	-	-	-	NA	5,110	19,900 J	20,800 J	4,130 J
Arsenic	MG/KG	16	100	-	10	2.6	2.9	3.9 J	2.0 J
Barium	MG/KG	10000	2000	-	NA	25.0	118 J	84.9 J	18.3 J
Beryllium	MG/KG	2700	-	-	NA	0.28	0.86	0.88 J	0.20 J
Cadmium	MG/KG	60	20	-	NA	0.17 J	0.064 J	0.064 J	0.19 J
Calcium	MG/KG	-	-	-	NA	68,500	45,300 J	57,900 J	61,200 J
Chromium	MG/KG	6800	100	-	NA	9.0	24.2 J	26.1 J	5.3 J
Cobalt	MG/KG	-	-	-	NA	2.9	11.9	10.9 J	2.9 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					SB-99-21	SF-35-20	TP-02	TP-03	TP-03
Sample ID					SB-99-21-2-3	SF-35-20-0.8-1.8	TP-2020-02-3.3-3.5	FD-20201208-1	TP-2020-03-3.3-3.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					2.0-3.0	0.8-1.8	3.3-3.5	3.3-3.5	3.3-3.5
Date Sampled					01/28/22	11/10/20	12/08/20	12/08/20	12/08/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				Field Duplicate (1-1)	
Metals									
Copper	MG/KG	10000	-	-	NA	8.2	16.9 J	17.7 J	10.8 J
Iron	MG/KG	-	-	-	NA	8,180	22,400 J	24,600 J	7,450 J
Lead	MG/KG	3900	100	-	NA	7.4	11.0 J	10.8	9.0
Magnesium	MG/KG	-	-	-	NA	28,600	17,400 J	15,800 J	25,500 J
Manganese	MG/KG	10000	-	-	NA	232	506 J	504 J	263 J
Mercury	MG/KG	5.7	4	-	NA	0.011 J	0.012 J	0.011 J	
Nickel	MG/KG	10000	-	-	NA	9.9	26.3 J	28.3 J	6.7 J
Potassium	MG/KG	-	-	-	NA	1,740	5,740 J	6,390 J	1,120 J
Selenium	MG/KG	6800	20	-	NA		1.8 J	2.0 J	
Silver	MG/KG	6800	100	-	NA		0.33 J	0.28 J	
Sodium	MG/KG	-	-	-	NA	197	241	236	143 J
Vanadium	MG/KG	-	-	-	NA	14.4	35.7 J	39.5 J	9.7 J
Zinc	MG/KG	10000	-	-	NA	43.1	56.7 J	60.3	52.0
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	NA	NA	NA
Barium	MG/L	-	-	100	NA	NA	NA	NA	NA
Cadmium	MG/L	-	-	1	NA	NA	NA	NA	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	NA	NA	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	NA	NA	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA	NA	NA	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					TP-04	TP-05	TP-06D	TP-07	TP-08
Sample ID					TP-2020-04-4.0-4.3	TP-2020-05-2.4-3.0	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					4.0-4.3	2.4-3.0	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled					12/09/20	12/09/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	MG/KG	-	-	-					
1,2-Dichloroethane	MG/KG	60	10	-					
1,3-Dichlorobenzene	MG/KG	560	-	-					
1,4-Dichlorobenzene	MG/KG	250	150	-					
Acetone	MG/KG	1000	-	-		0.023 J	0.035	0.0075 J	0.0071 J
Carbon disulfide	MG/KG	-	-	-					
Methyl ethyl ketone (2-Butanone)	MG/KG	1000	4000	-		0.0031 J	0.0066 J		
Methylene chloride	MG/KG	1000	-	-				0.0026 J	
Toluene	MG/KG	1000	-	-	0.0017 J	0.00053 J	0.00080 J		0.0013 J
Trichloroethene	MG/KG	400	10	-					
Trichlorofluoromethane	MG/KG	-	-	-					
Xylene (total)	MG/KG	1000	-	-					
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	-	6	NA	NA	0.0037 JB	0.0038 JB	NA
Metals									
Aluminum	MG/KG	-	-	-	30,000	24,600	12,800	9,080	2,530
Arsenic	MG/KG	16	100	-	4.9	3.7	3.2 J	4.0	
Barium	MG/KG	10000	2000	-	185	150	86.8	40.3	22.1
Beryllium	MG/KG	2700	-	-	1.4	1.0	0.56	0.38	0.11 J
Cadmium	MG/KG	60	20	-		0.087 J		0.20 J	
Calcium	MG/KG	-	-	-	12,000	31,300	24,900	79,700	10,800
Chromium	MG/KG	6800	100	-	33.9	28.3	289	11.5	723
Cobalt	MG/KG	-	-	-	15.9	12.0	19.8	5.8	56.8

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-3C
SUBSURFACE SOIL SAMPLE SUMMARY (VOCs, METALS and MISC)
TONAWANDA FORGE SITE

Location ID					TP-04	TP-05	TP-06D	TP-07	TP-08
Sample ID					TP-2020-04-4.0-4.3	TP-2020-05-2.4-3.0	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					4.0-4.3	2.4-3.0	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled					12/09/20	12/09/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Copper	MG/KG	10000	-	-	17.2	17.3	148	12.3	243
Iron	MG/KG	-	-	-	31,600	26,500	113,000	12,900	436,000
Lead	MG/KG	3900	100	-	14.9	14.3	33.6	13.1	93.0
Magnesium	MG/KG	-	-	-	9,170	13,600	8,030	24,200	2,100
Manganese	MG/KG	10000	-	-	454	419	1,050	518	3,590
Mercury	MG/KG	5.7	4	-	0.016 J	0.021	0.026	0.021	0.011 J
Nickel	MG/KG	10000	-	-	37.3	29.3	729	13.0	131
Potassium	MG/KG	-	-	-	5,560	5,420	2,740	2,600	622
Selenium	MG/KG	6800	20	-	2.5 J	2.2 J	11.8	0.69 J	46.5 J
Silver	MG/KG	6800	100	-	0.45 J	0.35 J	1.2 J		4.8 J
Sodium	MG/KG	-	-	-	143 J	218	245	192	88.1 J
Vanadium	MG/KG	-	-	-	52.4	44.5	31.4	18.9	32.6
Zinc	MG/KG	10000	-	-	80.3	59.7	103	63.8	19.5
TCLP Metals									
Arsenic	MG/L	-	-	5	NA	NA	0.012 J		NA
Barium	MG/L	-	-	100	NA	NA	0.82 J	0.47 J	NA
Cadmium	MG/L	-	-	1	NA	NA	0.0015 J	0.0018 J	NA
Miscellaneous Parameters									
Flashpoint	DEG F	-	<140	<140	NA	NA	176 >	176 >	NA
RCRA Characteristics									
Corrosivity	SU	-	-	2-12.5	NA	NA	8.5	8.4	NA
Reactive Sulfide	MG/KG	-	-	500	NA	NA		20	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NJ - The presence of analyte has been tentatively identified and associated value is an approximate concentration.

Only Detected Results Reported.

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID					BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	MG/KG	-	-	-	0.0062 UJ	0.0091 UJ	0.085 U	0.15 U	0.2 U
1,2,4-Trichlorobenzene	MG/KG	-	-	-	0.0062 UJ	0.0021 J	0.085 U	0.15 U	0.2 U
1,2-Dichlorobenzene	MG/KG	-	-	-	0.0062 UJ	0.0091 UJ	0.085 U	0.15 U	0.2 U
1,3-Dichlorobenzene	MG/KG	-	-	-	0.0062 UJ	0.00083 J	0.085 U	0.15 U	0.2 U
1,4-Dichlorobenzene	MG/KG	-	-	150	0.0062 UJ	0.0014 J	0.025 J	0.15 U	0.2 U
Acetone	MG/KG	-	-	-	0.0096 J	0.13	1.9	0.75 U	1 U
Benzene	MG/KG	-	-	10	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Carbon disulfide	MG/KG	-	-	-	0.0062 U	0.0091 U	0.043 J	0.15 U	0.2 U
Chlorobenzene	MG/KG	-	-	2000	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Chloromethane	MG/KG	-	-	-	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Cyclohexane	MG/KG	-	-	-	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Ethylbenzene	MG/KG	-	-	-	0.0062 U	0.00084 J	0.085 U	0.15 U	0.2 U
Isopropylbenzene (Cumene)	MG/KG	-	-	-	0.0062 UJ	0.0091 UJ	0.085 U	0.15 U	0.2 U
Methyl ethyl ketone (2-Butanone)	MG/KG	-	-	4000	0.0088 J	0.026 J	0.53	0.75 U	1 U
Methylcyclohexane	MG/KG	-	-	-	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Methylene chloride	MG/KG	-	-	-	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Styrene	MG/KG	-	-	-	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Toluene	MG/KG	-	-	-	0.0062 U	0.0091 U	0.085 U	0.15 U	0.2 U
Xylene (total)	MG/KG	-	-	-	0.012 U	0.018 U	0.17 U	0.3 U	0.4 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:34 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID					BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	6	-	NA	NA	0.010 U	0.010 U	0.010 U
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
2-Methylnaphthalene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
4-Chloroaniline	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
4-Methylphenol (p-cresol)	MG/KG	-	-	4000	2 U	240 U	85 U	86 U	56 U
Acenaphthene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Acenaphthylene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Anthracene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Benzo(a)anthracene	MG/KG	-	-	-	1 U	16 J	44 U	44 U	29 U
Benzo(a)pyrene	MG/KG	-	-	-	1 U	18 J	44 U	44 U	29 U
Benzo(b)fluoranthene	MG/KG	-	-	-	1 U	25 J	44 U	44 U	29 U
Benzo(g,h,i)perylene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Benzo(k)fluoranthene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Carbazole	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Chrysene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Dibenz(a,h)anthracene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Dibenzofuran	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:35 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID					BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
Fluoranthene	MG/KG	-	-	-	1 U	44 J	44 U	44 U	5.9 J
Fluorene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Indeno(1,2,3-cd)pyrene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Naphthalene	MG/KG	-	-	-	1 U	120 U	44 U	44 U	29 U
Phenanthrene	MG/KG	-	-	-	1 U	40 J	44 U	44 U	29 U
Pyrene	MG/KG	-	-	-	1 U	35 J	44 U	5.4 J	4 J
TCLP Semivolatile Organic Compounds									
4-Methylphenol (p-cresol)	MG/L	-	200	-	NA	NA	0.040 U	0.040 U	0.040 U
3&4-Methylphenol	MG/L	-	-	-	NA	NA	0.040 U	0.040 U	0.040 U
Polychlorinated Biphenyls									
Aroclor 1242	MG/KG	50	-	-	0.31 U	0.38 U	6.8 U	2.4 NJ	2.9 U
Aroclor 1248	MG/KG	50	-	-	0.31 U	0.38 U	6.8 U	5.6 U	11
Aroclor 1254	MG/KG	50	-	-	0.31 U	2.7	6.8 U	5.6 U	2.9 U
Aroclor 1260	MG/KG	50	-	-	0.31 U	0.38 U	6.8 U	5.6 U	2.9 U
Total PCBs	MG/KG	50	-	-	0.31 U	2.7	6.8 U	2.4	11
Metals									
Aluminum	MG/KG	-	-	-	534	5,250	48,600	3,440	5,170
Antimony	MG/KG	-	-	-	4.9 J	26.0 U	82.5 J	19.7 U	26.3 U
Arsenic	MG/KG	-	-	100	2.1 J	5.5	18.3 J	7.2	5.4

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID					BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Barium	MG/KG	-	-	2000	9.1	69.8	95.4	53.9	91.9
Beryllium	MG/KG	-	-	-	0.084 J	0.32 J	3.4 U	0.22	0.31
Cadmium	MG/KG	-	-	20	0.87	1.6	3.4 U	0.84	0.35 U
Calcium	MG/KG	-	-	-	1,630	62,000	11,600	150,000	65,800
Chromium	MG/KG	-	-	100	8.1	57.5	86.6	44.6	225
Cobalt	MG/KG	-	-	-	0.69	6.4	5.5 J	4.9	13.4
Copper	MG/KG	-	-	-	20.4	135	150	128	316
Iron	MG/KG	-	-	-	3,390	30,700	45,400	25,000	92,200
Lead	MG/KG	-	-	100	18.7	75.4	18.9	63.7	166
Magnesium	MG/KG	-	-	-	504	14,400	2,690	33,300	13,700
Manganese	MG/KG	-	-	-	20.6	342	233	567	990
Mercury	MG/KG	-	-	4	NA	0.045	0.25 J	0.016 J	0.083
Nickel	MG/KG	-	-	-	5.6 J	74.1	69.5 J	70.1	561
Potassium	MG/KG	-	-	-	217	931	2,250	840	834
Selenium	MG/KG	-	-	20	0.62 J	3.7 J	68.5 U	3.3 J	10.7
Silver	MG/KG	-	-	100	0.77 U	0.49 J	10.3 U	0.59 J	1.6
Sodium	MG/KG	-	-	-	178 J	265	1,800 J	164 J	175 J
Vanadium	MG/KG	-	-	-	4.2	21.4	25.7	15.4	23.8
Zinc	MG/KG	-	-	-	591	538	361	233	751

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:35 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID					BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
TCLP Metals									
Arsenic	MG/L	-	5	-	NA	NA	0.015 U	0.015 U	0.015 U
Barium	MG/L	-	100	-	NA	NA	0.14 J	0.43 J	0.76 J
Cadmium	MG/L	-	1	-	NA	NA	0.0020 U	0.0020 U	0.0020 U
Chromium	MG/L	-	5	-	NA	NA	0.026	0.020 U	0.020 U
Lead	MG/L	-	5	-	NA	NA	0.0083 J	0.0046 J	0.019 J
Selenium	MG/L	-	1	-	NA	NA	0.025 U	0.025 U	0.012 J
Silver	MG/L	-	5	-	NA	NA	0.0060 U	0.0060 U	0.0060 U
RCRA Characteristics									
Reactive Sulfide	MG/KG	-	500	-	NA	NA	160	10 U	10 U
Miscellaneous Parameters									
Cyanide	MG/KG	-	-	250	1.2 U	1.8 U	15.5 U	1.3 U	1.6 U
Flashpoint	DEG F	-	<140	<140	NA	NA	180	176	176
pH	SU	-	-	2-12.5	NA	NA	7.5	8.3	8.3

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID					FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/22/20	12/22/20	12/29/20	12/29/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	MG/KG	-	-	-	0.0091 U	0.0066 UJ	0.0064 U	0.012 U	0.007 U
1,2,4-Trichlorobenzene	MG/KG	-	-	-	0.0091 U	0.0066 UJ	0.0022 J	0.012 U	0.0009 J
1,2-Dichlorobenzene	MG/KG	-	-	-	0.0091 U	0.0066 UJ	0.0015 J	0.012 U	0.007 U
1,3-Dichlorobenzene	MG/KG	-	-	-	0.0091 U	0.0066 UJ	0.08	0.012 U	0.00056 J
1,4-Dichlorobenzene	MG/KG	-	-	150	0.0091 U	0.0066 UJ	0.24	0.012 U	0.007 U
Acetone	MG/KG	-	-	-	0.27 J	0.13 J	0.12	0.046 J	0.026 J
Benzene	MG/KG	-	-	10	0.0091 U	0.0066 U	0.00098 J	0.012 U	0.0011 J
Carbon disulfide	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0064 U	0.012 U	0.007 U
Chlorobenzene	MG/KG	-	-	2000	0.0091 U	0.0066 U	0.0042 J	0.012 U	0.007 U
Chloromethane	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0064 U	0.012 U	0.007 U
Cyclohexane	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0023 J	0.012 U	0.007 U
Ethylbenzene	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0032 J	0.012 U	0.007 U
Isopropylbenzene (Cumene)	MG/KG	-	-	-	0.0091 U	0.0066 UJ	0.0064 U	0.012 U	0.007 U
Methyl ethyl ketone (2-Butanone)	MG/KG	-	-	4000	0.056	0.028 J	0.027 J	0.062 U	0.035 U
Methylcyclohexane	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0016 J	0.012 U	0.007 U
Methylene chloride	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0064 U	0.012 U	0.007 U
Styrene	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0064 U	0.012 U	0.007 U
Toluene	MG/KG	-	-	-	0.0091 U	0.0066 U	0.0015 J	0.012 U	0.0045 J
Xylene (total)	MG/KG	-	-	-	0.018 U	0.013 U	0.018	0.025 U	0.014 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:36 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID					FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/22/20	12/22/20	12/29/20	12/29/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	6	-	0.0037 J	0.010 U	0.010 U	0.010 U	0.010 U
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	2.4 U
2-Methylnaphthalene	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	2.4 U
4-Chloroaniline	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	2.2 J
4-Methylphenol (p-cresol)	MG/KG	-	-	4000	30 U	22 U	42 U	0.77 J	4.7 U
Acenaphthene	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	2.4 U
Acenaphthylene	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	1.3 J
Anthracene	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	1 J
Benzo(a)anthracene	MG/KG	-	-	-	15 U	5.3 J	11 J	2.2 U	6.8
Benzo(a)pyrene	MG/KG	-	-	-	7.1 J	4.7 J	13 J	2.2 U	6.6
Benzo(b)fluoranthene	MG/KG	-	-	-	8.7 J	6.2 J	16 J	0.56 J	9.7
Benzo(g,h,i)perylene	MG/KG	-	-	-	5.2 J	3.3 J	8.5 J	2.2 U	4.6
Benzo(k)fluoranthene	MG/KG	-	-	-	4 J	2.5 J	7.4 J	2.2 U	2.4 U
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	15
Carbazole	MG/KG	-	-	-	15 U	11 U	2.9 J	2.2 U	0.46 J
Chrysene	MG/KG	-	-	-	6.7 J	5.6 J	14 J	2.2 U	6.4
Dibenz(a,h)anthracene	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	1.3 J
Dibenzofuran	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	2.4 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:36 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID					FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/22/20	12/22/20	12/29/20	12/29/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
Semivolatile Organic Compounds									
Fluoranthene	MG/KG	-	-	-	18	12	29	0.34 J	12
Fluorene	MG/KG	-	-	-	15 U	11 U	2.8 J	2.2 U	2.4 U
Indeno(1,2,3-cd)pyrene	MG/KG	-	-	-	4.2 J	2.6 J	7.1 J	2.2 U	3.9
Naphthalene	MG/KG	-	-	-	15 U	11 U	22 U	2.2 U	2.4 U
Phenanthrene	MG/KG	-	-	-	13 J	9.5 J	20 J	2.2 U	4.5
Pyrene	MG/KG	-	-	-	11 J	9.6 J	24	0.25 J	10
TCLP Semivolatile Organic Compounds									
4-Methylphenol (p-cresol)	MG/L	-	200	-	0.040 U	0.040 U	0.040 U	0.0026 J	0.040 U
3&4-Methylphenol	MG/L	-	-	-	0.040 U	0.040 U	0.040 U	0.0026 J	0.040 U
Polychlorinated Biphenyls									
Aroclor 1242	MG/KG	50	-	-	4.6 U	6.4 U	1.4 U	0.64 U	51
Aroclor 1248	MG/KG	50	-	-	4.6 U	6.4 U	1.4 U	0.64 U	5.5 U
Aroclor 1254	MG/KG	50	-	-	2.6 J	6.4 U	14	0.64 U	5.5 U
Aroclor 1260	MG/KG	50	-	-	4.6 U	6.4 U	1.4 U	0.64 U	5.5 U
Total PCBs	MG/KG	50	-	-	2.6	6.4 U	14	0.64 U	51
Metals									
Aluminum	MG/KG	-	-	-	8,100	6,080	1,790	10,700	728
Antimony	MG/KG	-	-	-	27.6 U	20.5 U	20.5 U	38.4 U	306
Arsenic	MG/KG	-	-	100	8.4	5.7	2.6 J	14.6	20.8

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID					FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/22/20	12/22/20	12/29/20	12/29/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
Metals									
Barium	MG/KG	-	-	2000	70.3	63.5	45.0	159	123
Beryllium	MG/KG	-	-	-	0.43	0.31	0.14 J	1.6	0.30 U
Cadmium	MG/KG	-	-	20	3.2 J	1.3 J	1.1	0.46 J	3.0 U
Calcium	MG/KG	-	-	-	101,000 J	50,400 J	12,500	119,000	12,100
Chromium	MG/KG	-	-	100	184	138	25.7	20.4	1,030
Cobalt	MG/KG	-	-	-	13.0	11.6	4.3	8.3	67.3
Copper	MG/KG	-	-	-	281 J	424 J	87.0	41.8	4,890
Iron	MG/KG	-	-	-	67,100	47,400	10,000	10,400	378,000
Lead	MG/KG	-	-	100	99.6	111	52.9	22.9	2,610
Magnesium	MG/KG	-	-	-	10,400	9,310	4,380	9,320	3,420
Manganese	MG/KG	-	-	-	711	533	111	839	2,810
Mercury	MG/KG	-	-	4	0.14	0.11	NA	NA	1.2
Nickel	MG/KG	-	-	-	470	331	39.8	24.7	1,440
Potassium	MG/KG	-	-	-	1,060	833	266	1,360	109
Selenium	MG/KG	-	-	20	8.5	5.7	1.4 J	7.1 J	40.1
Silver	MG/KG	-	-	100	1.5	1.1	0.57 J	1.5 U	6.7
Sodium	MG/KG	-	-	-	261	181 J	83.9 J	604	146 J
Vanadium	MG/KG	-	-	-	25.2	22.5	9.3	44.6	86.6
Zinc	MG/KG	-	-	-	1,280	1,040	1,000	88.1	677

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:37 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID					FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/22/20	12/22/20	12/29/20	12/29/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**	Field Duplicate (1-1)				
TCLP Metals									
Arsenic	MG/L	-	5	-	0.015 U	0.015 U	0.0060 J	0.028	0.015 U
Barium	MG/L	-	100	-	0.45 J	0.47 J	0.52 J	0.64 J	0.15 J
Cadmium	MG/L	-	1	-	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0040 U
Chromium	MG/L	-	5	-	0.020 U	0.020 U	0.020 U	0.020 U	0.029
Lead	MG/L	-	5	-	0.0067 J	0.014 J	0.025	0.011 J	0.042
Selenium	MG/L	-	1	-	0.025 U	0.025 U	0.010 J	0.025 U	0.032
Silver	MG/L	-	5	-	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0027 J
RCRA Characteristics									
Reactive Sulfide	MG/KG	-	500	-	140	200	120	100	641
Miscellaneous Parameters									
Cyanide	MG/KG	-	-	250	1.6 U	1.1 U	0.90 U	0.97 U	7.0 J
Flashpoint	DEG F	-	<140	<140	176	176	180	180	180
pH	SU	-	-	2-12.5	8.3	8.1	8.1	7.9	8.5

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID					MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0023 J	0.011 U
1,2,4-Trichlorobenzene	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.00086 J	0.011 U
1,2-Dichlorobenzene	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0067 UJ	0.011 U
1,3-Dichlorobenzene	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0067 UJ	0.011 U
1,4-Dichlorobenzene	MG/KG	-	-	150	1.2 U	0.55 U	0.15 U	0.0067 UJ	0.011 U
Acetone	MG/KG	-	-	-	6 U	2.7 U	0.75 U	0.16	0.094
Benzene	MG/KG	-	-	10	1.2 U	0.55 U	0.15 U	0.00089 J	0.011 U
Carbon disulfide	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.012	0.011 U
Chlorobenzene	MG/KG	-	-	2000	1.2 U	0.55 U	0.15 U	0.0067 U	0.011 U
Chloromethane	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.012	0.011 U
Cyclohexane	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0034 J	0.011 U
Ethylbenzene	MG/KG	-	-	-	1.2 U	0.55 U	0.093 J	0.0025 J	0.011 U
Isopropylbenzene (Cumene)	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0011 J	0.011 U
Methyl ethyl ketone (2-Butanone)	MG/KG	-	-	4000	6 U	2.7 U	0.75 U	0.026 J	0.024 J
Methylcyclohexane	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0036 J	0.011 U
Methylene chloride	MG/KG	-	-	-	1.2 U	0.55 U	0.15	0.0067 U	0.011 U
Styrene	MG/KG	-	-	-	1.2 U	0.55 U	0.062 J	0.0067 U	0.011 U
Toluene	MG/KG	-	-	-	1.2 U	0.55 U	0.15 U	0.0012 J	0.011 U
Xylene (total)	MG/KG	-	-	-	2.4 U	1.1 U	0.19 J	0.0064 J	0.021 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID					MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
TCLP Volatile Organic Compounds									
Chloroform	MG/L	-	6	-	NA	0.010 U	NA	0.010 U	NA
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	-	-	-	87	110 U	45 U	11 U	18 U
2-Methylnaphthalene	MG/KG	-	-	-	320	45 J	45 U	11 U	18 U
4-Chloroaniline	MG/KG	-	-	-	57 U	110 U	45 U	11 U	18 U
4-Methylphenol (p-cresol)	MG/KG	-	-	4000	110 U	200 U	88 U	22 U	36 U
Acenaphthene	MG/KG	-	-	-	170	270	30 J	11 U	6.1 J
Acenaphthylene	MG/KG	-	-	-	57 U	110 U	45 U	11 U	18 U
Anthracene	MG/KG	-	-	-	25 J	370	49	11 U	14 J
Benzo(a)anthracene	MG/KG	-	-	-	19 J	820	100	6.1 J	94
Benzo(a)pyrene	MG/KG	-	-	-	9.6 J	880	110	6 J	110
Benzo(b)fluoranthene	MG/KG	-	-	-	13 J	1,000	140	5.9 J	130
Benzo(g,h,i)perylene	MG/KG	-	-	-	57 U	610	76	3.3 J	87
Benzo(k)fluoranthene	MG/KG	-	-	-	57 U	410	52	3 J	83
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-	57 U	110 U	45 U	11 U	18 U
Carbazole	MG/KG	-	-	-	57 U	270	31 J	11 U	26
Chrysene	MG/KG	-	-	-	21 J	880	110	6 J	120
Dibenz(a,h)anthracene	MG/KG	-	-	-	57 U	140	18 J	11 U	21
Dibenzofuran	MG/KG	-	-	-	100	140	19 J	11 U	3.7 J

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:38 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID					MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
Fluoranthene	MG/KG	-	-	-	140	2,400	280	13	250
Fluorene	MG/KG	-	-	-	110	240	27 J	1.7 J	5.2 J
Indeno(1,2,3-cd)pyrene	MG/KG	-	-	-	57 U	530	66	3.3 J	76
Naphthalene	MG/KG	-	-	-	43 J	130	16 J	11 U	18 U
Phenanthrene	MG/KG	-	-	-	300	1,900	210	10 J	120
Pyrene	MG/KG	-	-	-	88	1,800	230	10 J	200
TCLP Semivolatile Organic Compounds									
4-Methylphenol (p-cresol)	MG/L	-	200	-	NA	0.10 U	NA	0.040 U	NA
3&4-Methylphenol	MG/L	-	-	-	NA	0.10 U	NA	0.040 U	NA
Polychlorinated Biphenyls									
Aroclor 1242	MG/KG	50	-	-	1,000	0.22 U	5.8 U	0.29 U	0.39 U
Aroclor 1248	MG/KG	50	-	-	54 U	0.91 NJ	5.8 U	6.3	0.39 U
Aroclor 1254	MG/KG	50	-	-	54 U	0.22 U	6.1	0.29 U	0.43
Aroclor 1260	MG/KG	50	-	-	54 U	0.25 NJ	5.8 U	0.29 U	0.39 U
Total PCBs	MG/KG	50	-	-	1,000	1.16	6.1	6.3	0.43
Metals									
Aluminum	MG/KG	-	-	-	5,520	5,780	9,770	3,380	1,530
Antimony	MG/KG	-	-	-	88.7 U	19.4 U	21.0 U	103 U	34.6 U
Arsenic	MG/KG	-	-	100	4.2 J	7.4	7.9	5.2 J	1.7 J

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:38 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID					MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Barium	MG/KG	-	-	2000	81.8	40.7	165	108	23.4
Beryllium	MG/KG	-	-	-	0.35	0.34	0.45	0.17	0.081 J
Cadmium	MG/KG	-	-	20	1.3	16.8	7.8	0.95 J	0.67
Calcium	MG/KG	-	-	-	26,700	15,500	65,900	47,300	75,600
Chromium	MG/KG	-	-	100	47.0	105	87.5	200	24.6
Cobalt	MG/KG	-	-	-	13.0	11.9	12.3	50.3	3.2
Copper	MG/KG	-	-	-	232	348	142	323	39.7
Iron	MG/KG	-	-	-	23,400	39,000	40,800	139,000	8,650
Lead	MG/KG	-	-	100	54.5	566	179	122	53.8
Magnesium	MG/KG	-	-	-	2,550	8,450	14,300	9,290	4,590
Manganese	MG/KG	-	-	-	268	414	589	1,710	100
Mercury	MG/KG	-	-	4	0.082	0.17	0.091	0.026 J	0.029 J
Nickel	MG/KG	-	-	-	52.8	188	118	170	29.1
Potassium	MG/KG	-	-	-	671	627	2,010	361	360
Selenium	MG/KG	-	-	20	3.7 J	5.6	4.3 J	16.5 J	9.2 U
Silver	MG/KG	-	-	100	3.5 U	1.1	0.96	1.8 J	1.4 U
Sodium	MG/KG	-	-	-	115 J	151 J	370	119 J	136 J
Vanadium	MG/KG	-	-	-	17.8	21.5	27.1	28.0	9.0
Zinc	MG/KG	-	-	-	627	1,560	1,050	754	183

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:39 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID					MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix					Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)					-	-	-	-	-
Date Sampled					12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
TCLP Metals									
Arsenic	MG/L	-	5	-	NA	0.013 J	NA	0.0058 J	NA
Barium	MG/L	-	100	-	NA	0.53 J	NA	0.81 J	NA
Cadmium	MG/L	-	1	-	NA	0.0020 U	NA	0.0020 U	NA
Chromium	MG/L	-	5	-	NA	0.020 U	NA	0.020 U	NA
Lead	MG/L	-	5	-	NA	0.50	NA	0.010 J	NA
Selenium	MG/L	-	1	-	NA	0.021 J	NA	0.025 U	NA
Silver	MG/L	-	5	-	NA	0.0060 U	NA	0.0060 U	NA
RCRA Characteristics									
Reactive Sulfide	MG/KG	-	500	-	NA	160	NA	10 U	340
Miscellaneous Parameters									
Cyanide	MG/KG	-	-	250	2.9	1.2 U	1.3 U	8.5	2.1 U
Flashpoint	DEG F	-	<140	<140	NA	176	NA	176	NA
pH	SU	-	-	2-12.5	NA	8.1	8.6	8.3	NA

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SED
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:31:39 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-53-2	RRV-01-2020
Sample ID					MH-53-2-2020	12RV-01-2020
Matrix					Sediment	Sediment
Depth Interval (ft)					-	-
Date Sampled					12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	MG/KG	-	-	-	NA	0.0077 U
1,2,4-Trichlorobenzene	MG/KG	-	-	-	NA	0.0077 U
1,2-Dichlorobenzene	MG/KG	-	-	-	NA	0.0077 U
1,3-Dichlorobenzene	MG/KG	-	-	-	NA	0.0077 U
1,4-Dichlorobenzene	MG/KG	-	-	150	NA	0.0077 U
Acetone	MG/KG	-	-	-	NA	0.038 U
Benzene	MG/KG	-	-	10	NA	0.0077 U
Carbon disulfide	MG/KG	-	-	-	NA	0.0077 U
Chlorobenzene	MG/KG	-	-	2000	NA	0.0077 U
Chloromethane	MG/KG	-	-	-	NA	0.0077 U
Cyclohexane	MG/KG	-	-	-	NA	0.0077 U
Ethylbenzene	MG/KG	-	-	-	NA	0.0077 U
Isopropylbenzene (Cumene)	MG/KG	-	-	-	NA	0.0077 U
Methyl ethyl ketone (2-Butanone)	MG/KG	-	-	4000	NA	0.038 U
Methylcyclohexane	MG/KG	-	-	-	NA	0.0077 U
Methylene chloride	MG/KG	-	-	-	NA	0.0077 U
Styrene	MG/KG	-	-	-	NA	0.0077 U
Toluene	MG/KG	-	-	-	NA	0.0077 U
Xylene (total)	MG/KG	-	-	-	NA	0.015 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-53-2	RRV-01-2020
Sample ID					MH-53-2-2020	12RV-01-2020
Matrix					Sediment	Sediment
Depth Interval (ft)					-	-
Date Sampled					12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
TCLP Volatile Organic Compounds						
Chloroform	MG/L	-	6	-	NA	0.010 U
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	-	-	-	NA	2.6 U
2-Methylnaphthalene	MG/KG	-	-	-	NA	2.6 U
4-Chloroaniline	MG/KG	-	-	-	NA	2.6 U
4-Methylphenol (p-cresol)	MG/KG	-	-	4000	NA	5 U
Acenaphthene	MG/KG	-	-	-	NA	2.6 U
Acenaphthylene	MG/KG	-	-	-	NA	2.6 U
Anthracene	MG/KG	-	-	-	NA	2.6 U
Benzo(a)anthracene	MG/KG	-	-	-	NA	2.6 U
Benzo(a)pyrene	MG/KG	-	-	-	NA	0.99 J
Benzo(b)fluoranthene	MG/KG	-	-	-	NA	1.3 J
Benzo(g,h,i)perylene	MG/KG	-	-	-	NA	0.9 J
Benzo(k)fluoranthene	MG/KG	-	-	-	NA	0.54 J
bis(2-Ethylhexyl)phthalate	MG/KG	-	-	-	NA	2.6 U
Carbazole	MG/KG	-	-	-	NA	2.6 U
Chrysene	MG/KG	-	-	-	NA	0.91 J
Dibenz(a,h)anthracene	MG/KG	-	-	-	NA	2.6 U
Dibenzofuran	MG/KG	-	-	-	NA	2.6 U

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-53-2	RRV-01-2020
Sample ID					MH-53-2-2020	12RV-01-2020
Matrix					Sediment	Sediment
Depth Interval (ft)					-	-
Date Sampled					12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Semivolatile Organic Compounds						
Fluoranthene	MG/KG	-	-	-	NA	1.7 J
Fluorene	MG/KG	-	-	-	NA	2.6 U
Indeno(1,2,3-cd)pyrene	MG/KG	-	-	-	NA	0.84 J
Naphthalene	MG/KG	-	-	-	NA	2.6 U
Phenanthrene	MG/KG	-	-	-	NA	0.99 J
Pyrene	MG/KG	-	-	-	NA	1.2 J
TCLP Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	MG/L	-	200	-	NA	0.040 U
3&4-Methylphenol	MG/L	-	-	-	NA	0.040 U
Polychlorinated Biphenyls						
Aroclor 1242	MG/KG	50	-	-	3.9	0.26 U
Aroclor 1248	MG/KG	50	-	-	0.20 U	0.26 U
Aroclor 1254	MG/KG	50	-	-	1.4	0.26
Aroclor 1260	MG/KG	50	-	-	0.20 U	0.26 U
Total PCBs	MG/KG	50	-	-	5.3	0.26
Metals						
Aluminum	MG/KG	-	-	-	NA	10,400
Antimony	MG/KG	-	-	-	NA	23.8 U
Arsenic	MG/KG	-	-	100	NA	6.7

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-53-2	RRV-01-2020
Sample ID					MH-53-2-2020	12RV-01-2020
Matrix					Sediment	Sediment
Depth Interval (ft)					-	-
Date Sampled					12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Metals						
Barium	MG/KG	-	-	2000	NA	513
Beryllium	MG/KG	-	-	-	NA	0.68
Cadmium	MG/KG	-	-	20	NA	1.0
Calcium	MG/KG	-	-	-	NA	74,700
Chromium	MG/KG	-	-	100	NA	129
Cobalt	MG/KG	-	-	-	NA	61.3
Copper	MG/KG	-	-	-	NA	646
Iron	MG/KG	-	-	-	NA	83,400
Lead	MG/KG	-	-	100	NA	251
Magnesium	MG/KG	-	-	-	NA	26,400
Manganese	MG/KG	-	-	-	NA	939
Mercury	MG/KG	-	-	4	NA	NA
Nickel	MG/KG	-	-	-	NA	305
Potassium	MG/KG	-	-	-	NA	2,050
Selenium	MG/KG	-	-	20	NA	8.9
Silver	MG/KG	-	-	100	NA	2.0
Sodium	MG/KG	-	-	-	NA	473
Vanadium	MG/KG	-	-	-	NA	33.1
Zinc	MG/KG	-	-	-	NA	1,330

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-4
SEWER SEDIMENT SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID					MH-53-2	RRV-01-2020
Sample ID					MH-53-2-2020	12RV-01-2020
Matrix					Sediment	Sediment
Depth Interval (ft)					-	-
Date Sampled					12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
TCLP Metals						
Arsenic	MG/L	-	5	-	NA	0.015 U
Barium	MG/L	-	100	-	NA	2.3
Cadmium	MG/L	-	1	-	NA	0.0090
Chromium	MG/L	-	5	-	NA	0.020 U
Lead	MG/L	-	5	-	NA	0.0077 J
Selenium	MG/L	-	1	-	NA	0.025 U
Silver	MG/L	-	5	-	NA	0.0060 U
RCRA Characteristics						
Reactive Sulfide	MG/KG	-	500	-	NA	10 U
Miscellaneous Parameters						
Cyanide	MG/KG	-	-	250	NA	0.99 U
Flashpoint	DEG F	-	<140	<140	NA	180
pH	SU	-	-	2-12.5	NA	8.1

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste

Criteria (3)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed
J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID				BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Benzo(a)anthracene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	0.0012	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	50	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	UG/L	5	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	UG/L	4.6	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pesticide Organic Compounds								
4,4'-DDT	UG/L	-	-	0.015 J	0.050 U	0.020 J	0.051 U	0.051 U
Aldrin	UG/L	-	-	0.048 U	0.050 U	0.014 J	0.051 U	0.016 J
delta-BHC	UG/L	-	-	0.048 U	0.050 U	0.031 J	0.021	0.051 U
Dieldrin	UG/L	-	-	0.048 U	0.050 U	0.048 U	0.051 U	0.051 U
Endosulfan I	UG/L	-	-	0.048 U	0.050 U	0.048 U	0.051 U	0.051 U
Polychlorinated Biphenyls								
Aroclor 1242	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Aroclor 1248	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.26	0.54
Aroclor 1254	UG/L	6.00E-06	-	0.060 U	0.097	0.060 U	0.060 U	0.060 U
Total PCBs	UG/L	6.00E-06	0.065	0.060 U	0.097	0.060 U	0.26	0.54
Metals								
Antimony	UG/L	3	-	1.3	0.39 J	1.0 U	0.79 J	0.64 J
Arsenic	UG/L	50	500	0.52 J	0.37 J	0.43 J	1.5	0.95 J
Cadmium	UG/L	3.3 calc	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:40 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID				BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Chromium	UG/L	50	1500	0.42 J	0.78	0.52	3.2	1.0
Copper	UG/L	14.6 calc	2600	1.7	2.7	1.3	7.4	2.8
Lead	UG/L	7 calc	500	0.29 J	0.59 J	1.0 U	2.5	0.23 J
Nickel	UG/L	84 calc	5000	1.5	0.51 J	2.1	3.0	1.6
Selenium	UG/L	4.6 dissolved	-	1.0 U	0.50 J	1.0 U	0.64 J	0.65 J
Thallium	UG/L	0.5	-	0.20 U	0.042 J	0.20 U	0.20 U	0.20 U
Zinc	UG/L	134 calc	4400	48.6	6.1 J	10.0 U	25.1	10.8
Dissolved Metals								
Antimony	UG/L	-	-	1.4	1.0 U	1.0 U	0.54 J	0.62 J
Arsenic	UG/L	-	-	0.40 J	1.0 U	0.28 J	0.79 J	0.78 J
Chromium	UG/L	-	-	1.5 U	1.5 U	1.5 U	1.5 U	0.46 J
Copper	UG/L	-	-	1.1	1.7	1.2	2.2	2.4
Nickel	UG/L	-	-	1.4	0.29 J	2.2	1.2	1.2
Selenium	UG/L	-	-	1.0 U	0.48 J	1.0 U	0.47 J	0.60 J
Thallium	UG/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc	UG/L	-	-	39.8	9.5	10.0 U	10	9.1
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)	MG/L	-	-	NA	NA	363	126	127
Ammonia (as N)	MG/L	-	-	NA	NA	0.020 U	0.076	0.020 U
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA	NA	6.0 UJ	2.0 U	2.0 U
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	NA	28.2	20.2	50.3
Cyanide	MG/L	-	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Flashpoint	DEG F	-	<140	180	NA	180	180	180

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:41 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				BCV-01-2020	DI-8-2020	F40EV-20	MH-058	MH-059
Sample ID				BC-01-2020	DI-8-2020	F40EV-2020	MH-58-2020	MH-59-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/28/20	12/21/20	12/30/20	12/23/20	12/23/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Miscellaneous Parameters								
Hardness	MG/L	-	-	NA	NA	320	152	156
Hexavalent Chromium	MG/L	-	-	NA	NA	0.028	0.0070 J	0.012
Nitrate-Nitrogen	MG/L	-	-	NA	NA	0.075	0.13	0.12
Nitrite-Nitrogen	MG/L	-	-	NA	NA	0.050 U	0.022	0.024
Nitrate-Nitrite	MG/L	-	-	NA	NA	0.075	0.15	0.14
Phenolics, Total Recoverable	MG/L	-	-	NA	NA	0.010 U	0.010 U	0.0066 J
Total Dissolved Solids	MG/L	-	-	NA	NA	532	151	141
Total Kjeldahl Nitrogen	MG/L	-	-	NA	NA	0.84	1.3	0.54
Total Suspended Solids	MG/L	-	-	NA	NA	6.0	4.0 U	4.0 U

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:41 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID				FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/22/20	12/22/20	12/29/20	12/29/20	12/28/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Benzo(a)anthracene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Benzo(a)pyrene	UG/L	0.0012	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Benzo(b)fluoranthene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Benzo(k)fluoranthene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Chrysene	UG/L	0.002	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Fluoranthene	UG/L	50	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Phenanthrene	UG/L	5	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Pyrene	UG/L	4.6	-	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Pesticide Organic Compounds								
4,4'-DDT	UG/L	-	-	0.049 U	0.049 U	0.015 J	0.048 U	0.99 U
Aldrin	UG/L	-	-	0.049 U	0.049 U	0.048 U	0.048 U	0.99 U
delta-BHC	UG/L	-	-	0.0099	0.049 U	0.012 J	0.048 U	0.99 U
Dieldrin	UG/L	-	-	0.049 U	0.049 U	0.048 U	0.048 U	0.99 U
Endosulfan I	UG/L	-	-	0.049 U	0.049 U	0.048 U	0.048 U	0.99 U
Polychlorinated Biphenyls								
Aroclor 1242	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.060 U	2.3 NJ
Aroclor 1248	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.060 U	0.60 U
Aroclor 1254	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.060 U	0.39 J
Total PCBs	UG/L	6.00E-06	0.065	0.060 U	0.060 U	0.060 U	0.060 U	2.69
Metals								
Antimony	UG/L	3	-	0.50 J	0.51 J	0.50 J	1.0 U	0.67 J
Arsenic	UG/L	50	500	0.35 J	0.37 J	0.47 J	0.63 J	0.92 J
Cadmium	UG/L	3.3 calc	200	0.50 U	0.50 U	0.50 U	0.50 U	0.11 J

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:42 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID				FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/22/20	12/22/20	12/29/20	12/29/20	12/28/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Metals								
Chromium	UG/L	50	1500	0.85	0.81	0.79 J	0.73 J	1.4 J
Copper	UG/L	14.6 calc	2600	3.4 J	1.8 J	2.4	2.4	6.8
Lead	UG/L	7 calc	500	0.37 J	0.32 J	1.0 U	1.0 U	1.6
Nickel	UG/L	84 calc	5000	0.39 J	0.45 J	1.1	1.4	4.1
Selenium	UG/L	4.6 dissolved	-	1.0 U	1.0 U	0.50 J	1.0 U	1.0 U
Thallium	UG/L	0.5	-	0.20 U	0.041 J	0.038 J	0.20 U	0.039 J
Zinc	UG/L	134 calc	4400	62.5	62.9	7.7 J	10.0 U	119
Dissolved Metals								
Antimony	UG/L	-	-	0.93 J	0.43 J	0.37 J	1.0 U	0.38 J
Arsenic	UG/L	-	-	1.0 U	1.0 U	0.40 J	0.46 J	0.66 J
Chromium	UG/L	-	-	1.5 U	1.5 U	0.44 J	1.5 U	1.5 U
Copper	UG/L	-	-	1.0	0.93 J	2.2	1.8	0.59 J
Nickel	UG/L	-	-	0.29 J	0.30 J	1.0	1.3	1.2
Selenium	UG/L	-	-	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U
Thallium	UG/L	-	-	0.20 U	0.20 U	0.023 J	0.20 U	0.20 U
Zinc	UG/L	-	-	57.7	59.2	8.6 J	3.8 J	7.3
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)	MG/L	-	-	27.5	30.5	90.1	NA	175
Ammonia (as N)	MG/L	-	-	0.36	0.36	0.012 J	NA	0.020 U
Biochemical Oxygen Demand (BOD)	MG/L	-	-	2.0 U	2.0 U	2.0 UJ	NA	6.0 UJ
Chemical Oxygen Demand (COD)	MG/L	-	-	7.6 J	7.7 J	12.9	NA	16.5
Cyanide	MG/L	-	-	0.010 U	0.010 U	0.010 U	0.012	0.0062 J
Flashpoint	DEG F	-	<140	176	176	180	NA	180

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:42 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-060	MH-060	MH-064	MH-085	MH-103V
Sample ID				FD-122220	MH-60-2020	MH-64-2020	MH-85-2020	MH-103V-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/22/20	12/22/20	12/29/20	12/29/20	12/28/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Miscellaneous Parameters								
Hardness	MG/L	-	-	36.0	40.0	128	NA	124
Hexavalent Chromium	MG/L	-	-	0.010 UJ	0.010 UJ	0.010 UJ	NA	0.010 U
Nitrate-Nitrogen	MG/L	-	-	0.66	0.65	0.078	NA	0.16
Nitrite-Nitrogen	MG/L	-	-	0.031	0.030	0.050 U	NA	0.050 U
Nitrate-Nitrite	MG/L	-	-	0.69	0.68	NA	NA	NA
Phenolics, Total Recoverable	MG/L	-	-	0.0095 J	0.0069 J	0.010 U	NA	0.010 U
Total Dissolved Solids	MG/L	-	-	78.0	92.0	181	NA	212
Total Kjeldahl Nitrogen	MG/L	-	-	0.58	1.1	0.26	NA	0.19 J
Total Suspended Solids	MG/L	-	-	4.0 U	4.0 U	4.0 U	NA	24.8

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:42 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID				MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Benzo(a)anthracene	UG/L	0.002	-	57 J	5.0 U	5.0 U	5.0 U	25 U
Benzo(a)pyrene	UG/L	0.0012	-	51 J	5.0 U	5.0 U	5.0 U	25 U
Benzo(b)fluoranthene	UG/L	0.002	-	64 J	5.0 U	5.0 U	5.0 U	25 U
Benzo(k)fluoranthene	UG/L	0.002	-	33 J	5.0 U	5.0 U	5.0 U	25 U
Chrysene	UG/L	0.002	-	65 J	5.0 U	5.0 U	5.0 U	25 U
Fluoranthene	UG/L	50	-	110	5.0 U	5.0 U	5.0 U	8.2 J
Phenanthrene	UG/L	5	-	68 J	5.0 U	5.0 U	5.0 U	25 U
Pyrene	UG/L	4.6	-	93 J	5.0 U	5.0 U	5.0 U	25 U
Pesticide Organic Compounds								
4,4'-DDT	UG/L	-	-	0.050 U	0.048 U	0.049 U	0.026	0.050 U
Aldrin	UG/L	-	-	0.050 U	0.048 U	0.049 U	0.054 U	0.050 U
delta-BHC	UG/L	-	-	0.050 U	0.048 U	0.049 U	0.054 U	0.010 J
Dieldrin	UG/L	-	-	0.050 U	0.048 U	0.011 J	0.054 U	0.050 U
Endosulfan I	UG/L	-	-	0.050 U	0.048 U	0.049 U	0.031 J	0.050 U
Polychlorinated Biphenyls								
Aroclor 1242	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.17	0.060 U
Aroclor 1248	UG/L	6.00E-06	-	0.16	0.11	0.060 U	0.060 U	0.060 U
Aroclor 1254	UG/L	6.00E-06	-	0.060 U	0.060 U	0.060 U	0.033 J	0.060 U
Total PCBs	UG/L	6.00E-06	0.065	0.16	0.11	0.060 U	0.203	0.060 U
Metals								
Antimony	UG/L	3	-	1.0 U	0.51 J	0.56 J	1.0 U	1.0 U
Arsenic	UG/L	50	500	0.85 J	1.6	0.67 J	0.38 J	0.53 J
Cadmium	UG/L	3.3 calc	200	0.50 U	0.50 U	0.50 U	0.50 U	0.13 J

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:42 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID				MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Chromium	UG/L	50	1500	0.61	1.0	0.74	1.7	1.4
Copper	UG/L	14.6 calc	2600	0.50 J	3.4	1.7	5.6	3.3
Lead	UG/L	7 calc	500	15.8	0.81 J	0.42 J	1.7	7.6
Nickel	UG/L	84 calc	5000	0.50 J	1.1	8.6	2.5	2.5
Selenium	UG/L	4.6 dissolved	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	UG/L	0.5	-	0.20 U	0.030 J	0.20 U	0.035 J	0.20 U
Zinc	UG/L	134 calc	4400	36.9	13.8	130	13.6	48.9
Dissolved Metals								
Antimony	UG/L	-	-	1.0 U	0.41 J	0.48 J	1.0 U	1.0 U
Arsenic	UG/L	-	-	0.64 J	1.4	0.37 J	1.0 U	1.0 U
Chromium	UG/L	-	-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	UG/L	-	-	1.0 U	2.1	0.85 J	1.0 U	1.2
Nickel	UG/L	-	-	0.46 J	0.71 J	7.8	0.82 J	1.1
Selenium	UG/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	UG/L	-	-	0.20 U	0.022 J	0.20 U	0.20 U	0.20 U
Zinc	UG/L	-	-	6.8	4.8	97.6	8.9	4.2 J
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)	MG/L	-	-	NA	96.4	NA	147	NA
Ammonia (as N)	MG/L	-	-	NA	0.020 U	NA	0.089	NA
Biochemical Oxygen Demand (BOD)	MG/L	-	-	NA	2.0 U	NA	2.6	NA
Chemical Oxygen Demand (COD)	MG/L	-	-	NA	10.4	NA	22.9	NA
Cyanide	MG/L	-	-	0.010 U	0.0058 J	0.010 U	0.0058 J	0.010 U
Flashpoint	DEG F	-	<140	NA	180	NA	176	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:43 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-107	MH-108	MH-113	MH-132	MH-305
Sample ID				MH-107-2020	MH-108-2020	MH-113-2020	MH-132-2020	MH-305-2020
Matrix				Waste Water	Waste Water	Waste Water	Waste Water	Waste Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/21/20	12/23/20	12/22/20	12/22/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Miscellaneous Parameters								
Hardness	MG/L	-	-	NA	104	NA	124	NA
Hexavalent Chromium	MG/L	-	-	NA	0.010 U	NA	0.010 U	NA
Nitrate-Nitrogen	MG/L	-	-	NA	0.090	NA	0.050 U	NA
Nitrite-Nitrogen	MG/L	-	-	NA	0.050 U	NA	0.026	NA
Nitrate-Nitrite	MG/L	-	-	NA	0.090	NA	0.050 U	NA
Phenolics, Total Recoverable	MG/L	-	-	NA	0.014	NA	0.013	NA
Total Dissolved Solids	MG/L	-	-	NA	101	NA	130	NA
Total Kjeldahl Nitrogen	MG/L	-	-	NA	0.59	NA	0.49	NA
Total Suspended Solids	MG/L	-	-	NA	4.0 U	NA	4.0 U	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:43 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-53-2	RRV-01-2020
Sample ID				MH-53-2-2020	RRV-01-2020
Matrix				Waste Water	Waste Water
Depth Interval (ft)				-	-
Date Sampled				12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Semivolatile Organic Compounds					
Benzo(a)anthracene	UG/L	0.002	-	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	0.0012	-	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	0.002	-	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	0.002	-	5.0 U	5.0 U
Chrysene	UG/L	0.002	-	5.0 U	5.0 U
Fluoranthene	UG/L	50	-	5.0 U	5.0 U
Phenanthrene	UG/L	5	-	5.0 U	5.0 U
Pyrene	UG/L	4.6	-	5.0 U	5.0 U
Pesticide Organic Compounds					
4,4'-DDT	UG/L	-	-	0.051 U	0.055 U
Aldrin	UG/L	-	-	0.051 U	0.055 U
delta-BHC	UG/L	-	-	0.016 J	0.055 U
Dieldrin	UG/L	-	-	0.051 U	0.055 U
Endosulfan I	UG/L	-	-	0.051 U	0.055 U
Polychlorinated Biphenyls					
Aroclor 1242	UG/L	6.00E-06	-	1.0	0.060 U
Aroclor 1248	UG/L	6.00E-06	-	0.060 U	0.060 U
Aroclor 1254	UG/L	6.00E-06	-	0.21	0.060 U
Total PCBs	UG/L	6.00E-06	0.065	1.21	0.060 U
Metals					
Antimony	UG/L	3	-	1.0 U	0.88 J
Arsenic	UG/L	50	500	1.3	0.96 J
Cadmium	UG/L	3.3 calc	200	0.073 J	0.50 U

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-53-2	RRV-01-2020
Sample ID				MH-53-2-2020	RRV-01-2020
Matrix				Waste Water	Waste Water
Depth Interval (ft)				-	-
Date Sampled				12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Metals					
Chromium	UG/L	50	1500	1.8	0.74 J
Copper	UG/L	14.6 calc	2600	4.4	5.4
Lead	UG/L	7 calc	500	1.8	0.20 J
Nickel	UG/L	84 calc	5000	1.8	1.2
Selenium	UG/L	4.6 dissolved	-	1.0 U	1.0 U
Thallium	UG/L	0.5	-	0.038 J	0.20 U
Zinc	UG/L	134 calc	4400	18.4	50.3
Dissolved Metals					
Antimony	UG/L	-	-	1.0 U	0.87 J
Arsenic	UG/L	-	-	0.81 J	0.88 J
Chromium	UG/L	-	-	1.5 U	0.37 J
Copper	UG/L	-	-	1.0 U	4.7
Nickel	UG/L	-	-	0.59 J	1.2
Selenium	UG/L	-	-	1.0 U	1.0 U
Thallium	UG/L	-	-	0.20 U	0.20 U
Zinc	UG/L	-	-	5.5	47.9
Miscellaneous Parameters					
Alkalinity, Total (as CaCO3)	MG/L	-	-	146	NA
Ammonia (as N)	MG/L	-	-	0.056	NA
Biochemical Oxygen Demand (BOD)	MG/L	-	-	2.0 UJ	NA
Chemical Oxygen Demand (COD)	MG/L	-	-	12.7	NA
Cyanide	MG/L	-	-	0.0053 J	0.010 U
Flashpoint	DEG F	-	<140	180	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:43 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-5
STORM SEWER/ WASE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-53-2	RRV-01-2020
Sample ID				MH-53-2-2020	RRV-01-2020
Matrix				Waste Water	Waste Water
Depth Interval (ft)				-	-
Date Sampled				12/28/20	12/29/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Miscellaneous Parameters					
Hardness	MG/L	-	-	152	NA
Hexavalent Chromium	MG/L	-	-	0.024 J	NA
Nitrate-Nitrogen	MG/L	-	-	0.029 J	NA
Nitrite-Nitrogen	MG/L	-	-	0.050 U	NA
Nitrate-Nitrite	MG/L	-	-	NA	NA
Phenolics, Total Recoverable	MG/L	-	-	0.010 U	NA
Total Dissolved Solids	MG/L	-	-	251	NA
Total Kjeldahl Nitrogen	MG/L	-	-	0.18 J	NA
Total Suspended Solids	MG/L	-	-	4.0 U	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 WW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 3/25/2021 9:13:43 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'WW' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-6
LNAPL SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-119	MH-121
Sample ID				MH-119-2020	MH-121-2020
Matrix				Organic Liquid	Organic Liquid
Depth Interval (ft)				-	-
Date Sampled				12/30/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Volatile Organic Compounds					
1,2,4-Trichlorobenzene	MG/KG	-	-	0.14	0.098 U
Polychlorinated Biphenyls					
Aroclor 1248	MG/KG	50	-	67	23 U
Total PCBs	MG/KG	50	-	67	23 U
Metals					
Aluminum	MG/KG	-	-	71.7	111
Arsenic	MG/KG	-	100	0.88 J	1.2 J
Barium	MG/KG	-	2000	3.4	4.1
Calcium	MG/KG	-	-	1,290	2,460
Chromium	MG/KG	-	100	15.0	33.8
Cobalt	MG/KG	-	-	0.51	1.2
Copper	MG/KG	-	-	12.6	33.6
Iron	MG/KG	-	-	4,180	13,000
Lead	MG/KG	-	100	3.5	3.1
Magnesium	MG/KG	-	-	30.3	39.4
Manganese	MG/KG	-	-	28.1	98.6
Nickel	MG/KG	-	-	46.0	62.1
Potassium	MG/KG	-	-	30.3 U	22.1 J
Selenium	MG/KG	-	20	0.41 J	1.3 J
Sodium	MG/KG	-	-	141 U	20.1 J
Vanadium	MG/KG	-	-	2.0	3.6
Zinc	MG/KG	-	-	26.4	29.7

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 LO
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 9:56:12 AM
[LOGDATE] >= #11/2/2020# AND [MATRIX] = 'LO' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 3-6
LNAPL SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				MH-119	MH-121
Sample ID				MH-119-2020	MH-121-2020
Matrix				Organic Liquid	Organic Liquid
Depth Interval (ft)				-	-
Date Sampled				12/30/20	12/30/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
RCRA Characteristics					
Reactive Sulfide	MG/KG	-	-	10.0 U	120
Miscellaneous Parameters					
Flashpoint	DEG F	-	<140	176	176
Heat of Combustion (BTU)	BTU/LB	-	-	17,600	14,700
pH	SU	-	2-12.5	6.5	6.4
Petroleum Hydrocarbon Mixtures					
Motor Oil	MG/KG	-	-	62,000	60,000
Unknown Petroleum Hydrocarbon (C9-C23)	MG/KG	-	-	35,000	34,000

Criteria (1)- 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e).

Criteria (2)- Hazardous Waste Criteria, 40 CFR Part 261, Subpart C - Characteristics of Hazardous Waste, 20 times the TCLP regulatory limit.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3-7
SURFACE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID				SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Benzo(a)anthracene	UG/L	0.002	-	15 J	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	0.0012	-	18 J	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	0.002	-	27	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	UG/L	-	-	11 J	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	0.002	-	11 J	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	UG/L	0.002	-	21 J	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	50	-	35	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-	9.4 J	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	UG/L	5	-	23 J	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	UG/L	4.6	-	25	5.0 U	5.0 U	5.0 U	5.0 U
Pesticide Organic Compounds								
4,4'-DDE	UG/L	-	-	0.013 J	0.050 U	0.052 U	0.051 U	0.052 U
4,4'-DDT	UG/L	-	-	0.052 U	0.050 U	0.018 J	0.051 U	0.052 U
beta-BHC	UG/L	-	-	0.052 U	0.050 U	0.033 J	0.051 U	0.052 U
Polychlorinated Biphenyls								
Aroclor 1254	UG/L	6.00E-06	-	15 J	0.060 U	0.060 U	0.066 J	0.056 J
Total PCBs	UG/L	6.00E-06	0.065	15	0.060 U	0.060 U	0.066	0.056
Metals								
Antimony	UG/L	3	-	2.6	0.82 J	0.87 J	1.6	0.86 J
Arsenic	UG/L	50	500	1.6	0.64 J	0.81 J	0.75 J	0.94 J
Beryllium	UG/L	3	-	0.090 J	0.70 U	0.034 J	0.70 U	0.046 J
Cadmium	UG/L	3.3 calc	200	1.5	0.50 U	0.19 J	0.14 J	0.42 J
Chromium	UG/L	50	1500	11.9	1.6	3.5	3.2	7.2

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:13:59 AM
[LOGDATE] >= #11/2/2020# AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SW-*'

TABLE 3-7
SURFACE WATER SAMPLE SUMMARY
TONAWANDA FORGE SITE

Location ID				SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID				SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Copper	UG/L	14.6 calc	2600	61.4	3.5	6.8	6.0	11.7
Lead	UG/L	7 calc	500	68.3	0.61 J	5.4	1.9	7.3
Nickel	UG/L	84 calc	5000	15.3	1.5	2.9	2.2	5.7
Silver	UG/L	0.1 ionic	1300	0.20 J	0.50 U	0.50 U	0.50 U	0.50 U
Thallium	UG/L	0.5	-	0.044 J	0.20 U	0.023 J	0.20 U	0.20 U
Zinc	UG/L	134 calc	4400	218	14.0	88.3	53.4	110
Dissolved Metals								
Antimony	UG/L	-	-	1.3	0.41 J	1.0 U	1.0 U	1.0 U
Arsenic	UG/L	-	-	0.61 J	0.39 J	0.36 J	0.37 J	0.35 J
Cadmium	UG/L	-	-	0.076 J	0.50 U	0.50 U	0.50 U	0.50 U
Chromium	UG/L	-	-	0.68 J	1.5 U	0.42 J	1.5 U	1.5 U
Copper	UG/L	-	-	14.2	2.5	2.4	2.4	3.2
Lead	UG/L	-	-	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U
Nickel	UG/L	-	-	1.7	1.3	1.1	1.2	1.2
Thallium	UG/L	-	-	0.025 J	0.20 U	0.20 U	0.20 U	0.20 U
Zinc	UG/L	-	-	12.3	11.8	22.2	19.0	18.2

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class A.

Criteria (2)- Town of Tonawanda Aqueous Discharge Information Sheet

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

B - The rcompound has been detected in an associated method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: 2020 SW
J:\Projects\11176989\DB\EDMS.mdb
Printed: 2/19/2021 11:13:59 AM
[LOGDATE] >= #11/2/2020# AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SW-*'

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-01-MW-10I	AOC-01-MW-10S	AOC-01-MW-11I	AOC-01-MW-11S	AOC-01-MW-12I	AOC-01-MW-12S	AOC-01-MW-12S
Sample ID				AOC-01-MW-10I	AOC-01-MW-10S	AOC-01-MW-11I	AOC-01-MW-11S	AOC-01-MW-12I	AOC-01-MW-12S	FD-20220112-1
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/13/22	01/13/22	01/12/22	01/12/22	01/12/22	01/12/22	01/12/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							Field Duplicate
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.180 U	0.171 U	0.176 U	0.180 U	0.196 U	0.180 U	0.191 U
Aroclor 1248	UG/L	-	-	0.170 U	0.162 U	0.167 U	0.170 U	0.186 U	0.179 U	0.182 U
Aroclor 1260	UG/L	-	-	0.167 U	0.159 U	0.164 U	0.167 U	0.182 U	0.175 U	0.178 U
TOTAL PCBs	UG/L	0.09	0.5	0.192 U	0.183 U	0.188 U	0.192 U	0.209 U	0.201 U	0.204 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.189 U	0.198 U	0.192 U	0.192 U	0.209 U	0.204 U	0.204 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	0.00040 U	0.00039 U	NA	0.0053 U	NA	NA	NA
Dichlorobiphenyls	UG/L	-	-	0.00017 U	0.00016 U	NA	0.0036 U	NA	NA	NA
Trichlorobiphenyls	UG/L	-	-	0.00028 U	0.00028 U	NA	0.012 U	NA	NA	NA
Tetrachlorobiphenyls	UG/L	-	-	0.00033 U	0.00032 U	NA	0.0082 U	NA	NA	NA
Pentachlorobiphenyls	UG/L	-	-	0.00049 U	0.00048 U	NA	0.016 U	NA	NA	NA
Hexachlorobiphenyls	UG/L	-	-	0.00053 U	0.00052 U	NA	0.0074 U	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	0.0013 U	0.0013 U	NA	0.016 U	NA	NA	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-01-MW-13I	AOC-01-MW-13S	AOC-01-MW-14S	AOC-01-MW-15S	AOC-02-MW-01I	AOC-02-MW-03D	AOC-02-MW-03I
Sample ID				AOC-01-MW-13I	AOC-01-MW-13S	AOC-01-MW-14S	AOC-01-MW-15S	AOC-02-MW-01I	AOC-02-MW-03D	AOC-02-MW-03I
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/13/22	01/13/22	01/12/22	01/12/22	01/21/22	01/20/22	01/14/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.178 U	0.196 U	0.180 U	0.180 U	0.196 U	0.196 U	0.185 U
Aroclor 1248	UG/L	-	-	0.169 U	0.186 U	0.170 U	0.170 U	0.186 U	0.186 U	0.176 U
Aroclor 1260	UG/L	-	-	0.166 U	0.182 U	0.167 U	0.167 U	0.182 U	0.182 U	0.173 U
TOTAL PCBs	UG/L	0.09	0.5	0.190 U	0.209 U	0.192 U	0.192 U	0.209 U	0.209 U	0.198 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.196 U	0.209 U	0.192 U	0.209 U	0.193 U	0.192 U	0.198 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	0.00039 U	0.00044 U	NA	NA	NA	NA	NA
Dichlorobiphenyls	UG/L	-	-	0.00016 U	0.00018 U	NA	NA	NA	NA	NA
Trichlorobiphenyls	UG/L	-	-	0.00028 U	0.00031 U	NA	NA	NA	NA	NA
Tetrachlorobiphenyls	UG/L	-	-	0.00032 U	0.00036 U	NA	NA	NA	NA	NA
Pentachlorobiphenyls	UG/L	-	-	0.00047 U	0.00054 U	NA	NA	NA	NA	NA
Hexachlorobiphenyls	UG/L	-	-	0.00052 U	0.00059 U	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	0.0012 U	0.0014 U	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-02-MW-03S	AOC-03-PZ-09	AOC-03-PZ-10	AOC-05-MW-04I	AOC-05-MW-04S	AOC-05-PZ-06	AOC-06-MW-06I
Sample ID				AOC-02-MW-3S	AOC-03-PZ-09	AOC-03-PZ-10	AOC-05-MW-4I	AOC-05-MW-04S	AOC-5-PZ-06	AOC-06-MW-06I
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/11/22	01/10/22	01/11/22	01/11/22	01/10/22	01/11/22	01/14/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.181 U	2.30	1.80	0.190 U	0.179 U	0.207 U	0.166 U
Aroclor 1248	UG/L	-	-	0.172 U	0.165 U	0.185 U	0.181 U	0.170 U	0.196 U	0.158 U
Aroclor 1260	UG/L	-	-	0.169 U	0.162 U	0.182 U	0.177 U	0.166 U	0.193 U	0.155 U
TOTAL PCBs	UG/L	0.09	0.5	0.194 U	***2.30***	***1.80***	0.203 U	0.191 U	0.221 U	0.177 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.203 UJ	0.188 U	0.194 U	0.196 U	0.216 U	0.184 U	0.192 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	NA	0.0051 U	0.0057 U	NA	NA	NA	NA
Dichlorobiphenyls	UG/L	-	-	NA	0.012	0.11	NA	NA	NA	NA
Trichlorobiphenyls	UG/L	-	-	NA	0.21	0.68	NA	NA	NA	NA
Tetrachlorobiphenyls	UG/L	-	-	NA	0.92	0.87	NA	NA	NA	NA
Pentachlorobiphenyls	UG/L	-	-	NA	0.046	0.11	NA	NA	NA	NA
Hexachlorobiphenyls	UG/L	-	-	NA	0.0072 U	0.028	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	***1.2***	***1.8***	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-06-MW-D	AOC-07-MW-I	AOC-08-MW-07I	AOC-08-MW-07S	AOC-08-MW-18I	AOC-08-MW-18S	AOC-08-PZ-05
Sample ID				AOC-06-MW-D	AOC-07-MW-I	AOC-08-MW-07I	AOC-08-MW-07S	AOC-08-MW-18I	AOC-08-MW-18S	AOC-08-PZ-05
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/14/22	01/19/22	01/14/22	01/14/22	01/19/22	01/19/22	01/19/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.173 U	0.176 U	0.185 U	0.187 U	0.187 U	0.189 U	0.169 U
Aroclor 1248	UG/L	-	-	0.164 U	0.167 U	0.176 U	0.178 U	0.178 U	0.180 U	0.161 U
Aroclor 1260	UG/L	-	-	0.161 U	0.164 U	0.174 U	0.174 U	0.174 U	0.176 U	0.158 U
TOTAL PCBs	UG/L	0.09	0.5	0.184 U	0.188 U	0.198 U	0.200 U	0.200 U	0.202 U	0.181 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.192 U	0.209 U	0.209 U	0.198 U	0.198 U	0.196 U	0.198 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0056 U	NA
Dichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0038 U	NA
Trichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.012 U	NA
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0086 U	NA
Pentachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.017 U	NA
Hexachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0078 U	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	0.017 U	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-09-PZ-01	AOC-09-PZ-02	AOC-09-PZ-03	AOC-10-MW-08I	AOC-10-MW-08S	AOC-10-MW-16	AOC-10-PZ-04
Sample ID				AOC-09-PZ-01	AOC-09-PZ-02	AOC-09-PZ-03	AOC-10-MW-08I	AOC-10-MW-08S	AOC-10-MW-16	AOC-10-PZ-04
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/14/22	01/20/22	01/20/22	01/19/22	01/19/22	01/20/22	01/19/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.171 U	0.185 U	0.187 U	0.176 U	0.185 U	0.185 U	0.180 U
Aroclor 1248	UG/L	-	-	0.162 U	0.336	0.178 U	0.167 U	0.176 U	0.176 U	0.170 U
Aroclor 1260	UG/L	-	-	0.159 U	0.173 U	0.174 U	0.164 U	0.173 U	0.173 U	0.167 U
TOTAL PCBs	UG/L	0.09	0.5	0.183 U	***0.336***	0.200 U	0.188 U	0.198 U	0.198 U	0.192 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.198 U	0.209 U	0.204 U	0.198 U	0.190 U	0.209 U	0.184 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0055 U	NA
Dichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0037 U	NA
Trichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.012 U	NA
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0085 U	NA
Pentachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.016 U	NA
Hexachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	0.0076 U	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	0.016 U	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-11-MW-C	AOC-12-MW-09I	AOC-12-MW-09S	AOC-13-MW-02D	AOC-13-MW-02I	AOC-13-MW-02S	AOC-13-MW-19I
Sample ID				AOC-11-MW-C	AOC-12-MW-09I	AOC-12-MW-09S	AOC-13-MW-02D	AOC-13-MW-02I	AOC-13-MW-02S	AOC-13-MW-19I
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/19/22	01/21/22	01/21/22	01/20/22	01/20/22	01/20/22	01/20/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.178 U	0.178 U	0.178 U	0.196 U	0.176 U	23.8 D	0.185 U
Aroclor 1248	UG/L	-	-	0.169 U	0.169 U	0.169 U	0.186 U	1.09	3.52 U	0.176 U
Aroclor 1260	UG/L	-	-	0.166 U	0.166 U	0.166 U	0.182 U	0.164 U	3.45 U	0.173 U
TOTAL PCBs	UG/L	0.09	0.5	0.190 U	0.190 U	0.190 U	0.209 U	***1.09***	***23.8***	0.198 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.189 U	0.190 U	0.192 U	0.209 U	0.183 U	0.198 U	0.183 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.012 J	0.41	NA
Dichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.12 J	3.4	NA
Trichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.56 J	7.8	NA
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.69 J	8.4	NA
Pentachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.087 J	0.52	NA
Hexachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.0072 UJ	0.0076 U	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	***1.5 J***	***21***	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	0.0078 UJ	0.066	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	0.015 UJ	0.066	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-13-MW-19S	AOC-13-MW-20I	AOC-13-MW-20S	AOC-14-MW-21I	AOC-14-MW-21S	AOC-16-MW-05I	AOC-16-MW-E
Sample ID				AOC-13-MW-19S	AOC-13-MW-20I	AOC-13-MW-20S	AOC-14-MW-21I	AOC-14-MW-21S	AOC-01-MW-05I	AOC-16-MW-E
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/20/22	01/21/22	01/21/22	01/21/22	01/21/22	01/11/22	01/10/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**							
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.171 U	0.181 U	0.172 U	0.168 U	0.205 U	0.178 U	0.185 U
Aroclor 1248	UG/L	-	-	1.87	0.172 U	0.163 U	0.160 U	0.194 U	0.169 U	0.176 U
Aroclor 1260	UG/L	-	-	0.159 U	0.169 U	0.160 U	0.157 U	0.191 U	0.166 U	0.173 U
TOTAL PCBs	UG/L	0.09	0.5	***1.87***	0.194 U	0.183 U	0.180 U	0.219 U	0.190 U	0.198 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.209 U	0.194 U	0.194 U	0.219 U	0.183 U	0.190 U	0.198 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	0.0050 U	NA	NA	NA	NA	NA	0.0055 U
Dichlorobiphenyls	UG/L	-	-	0.22	NA	NA	NA	NA	NA	0.0037 U
Trichlorobiphenyls	UG/L	-	-	1.1	NA	NA	NA	NA	NA	0.012 U
Tetrachlorobiphenyls	UG/L	-	-	1.5	NA	NA	NA	NA	NA	0.0085 U
Pentachlorobiphenyls	UG/L	-	-	0.39	NA	NA	NA	NA	NA	0.016 U
Hexachlorobiphenyls	UG/L	-	-	0.028	NA	NA	NA	NA	NA	0.0076 U
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	***3.2***	NA	NA	NA	NA	NA	0.016 U
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	0.0089 U	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	0.017 U	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-16-MW-H	AOC-16-MW-H	AOC-16-PZ-07	AOC-16-PZ-08	AOC-16-PZ-A	AOC-16-PZ-B	AOC-16-PZ-C
Sample ID				AOC-16-MW-H	FD-20220110-1	AOC-01-PZ-07	AOC-16-PZ-08	AOC-16-PZ-A	AOC-16-PZ-B	AOC-16-PZ-C
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/10/22	01/10/22	01/11/22	01/11/22	01/10/22	01/11/22	01/10/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate					
Polychlorinated Biphenyls										
Aroclor 1242	UG/L	-	-	0.185 U	0.181 U	0.178 U	0.196 U	0.173 U	0.185 U	0.178 U
Aroclor 1248	UG/L	-	-	0.176 U	0.172 U	0.169 U	0.186 U	0.164 U	0.176 U	0.169 U
Aroclor 1260	UG/L	-	-	0.173 U	0.169 U	0.166 U	0.294	0.161 U	0.173 U	0.166 U
TOTAL PCBs	UG/L	0.09	0.5	0.198 U	0.194 U	0.190 U	***0.294***	0.184 U	0.198 U	0.190 U
Dissolved Polychlorinated Biphenyls										
TOTAL PCBs	UG/L	0.09	0.5	0.147 U	0.168 U	0.183 U	0.183 U	0.209 U	0.211 U	0.198 U
Polychlorinated Biphenyl Homologs										
Monochlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Dichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Trichlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Pentachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Hexachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyl Homologs										
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				AOC-16-PZ-D	MW-17I	MW-22I	MW-22S	MW-23I	MW-F
Sample ID				AOC-16-PZ-D	MW-17I	MW-22I	MW-22S	AOC-01-MW-23I	MW-F
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date Sampled				01/10/22	01/13/22	01/12/22	01/12/22	01/12/22	01/21/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**						
Polychlorinated Biphenyls									
Aroclor 1242	UG/L	-	-	0.171 U	0.185 U	0.179 U	0.202 U	0.181 U	0.185 U
Aroclor 1248	UG/L	-	-	0.162 U	0.176 U	0.170 U	0.192 U	0.172 U	0.176 U
Aroclor 1260	UG/L	-	-	0.159 U	0.173 U	0.166 U	0.189 U	0.169 U	0.173 U
TOTAL PCBs	UG/L	0.09	0.5	0.183 U	0.198 U	0.191 U	0.216 U	0.194 U	0.198 U
Dissolved Polychlorinated Biphenyls									
TOTAL PCBs	UG/L	0.09	0.5	0.209 U	0.202 U	0.200 U	0.224 U	0.186 U	0.209 U
Polychlorinated Biphenyl Homologs									
Monochlorobiphenyls	UG/L	-	-	NA	0.00040 U	NA	0.0060 U	NA	0.0055 U
Dichlorobiphenyls	UG/L	-	-	NA	0.00017 U	NA	0.0040 U	NA	0.0037 U
Trichlorobiphenyls	UG/L	-	-	NA	0.00028 U	NA	0.013 U	NA	0.012 U
Tetrachlorobiphenyls	UG/L	-	-	NA	0.00033 U	NA	0.0092 U	NA	0.0085 U
Pentachlorobiphenyls	UG/L	-	-	NA	0.00049 U	NA	0.018 U	NA	0.016 U
Hexachlorobiphenyls	UG/L	-	-	NA	0.00054 U	NA	0.0083 U	NA	0.0076 U
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	0.0013 U	NA	0.018 U	NA	0.016 U
Dissolved Polychlorinated Biphenyl Homologs									
Tetrachlorobiphenyls	UG/L	-	-	NA	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-8
SUMMARY OF GROUNDWATER PCB RESULTS
TONAWANDA FORGE SITE

Location ID				MW-J	MW-J
Sample ID				MW-J	FD-20220113-1
Matrix				Groundwater	Groundwater
Date Sampled				01/13/22	01/13/22
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate
Polychlorinated Biphenyls					
Aroclor 1242	UG/L	-	-	0.207 U	0.189 U
Aroclor 1248	UG/L	-	-	0.196 U	0.180 U
Aroclor 1260	UG/L	-	-	0.193 U	0.176 U
TOTAL PCBs	UG/L	0.09	0.5	0.221 U	0.202 U
Dissolved Polychlorinated Biphenyls					
TOTAL PCBs	UG/L	0.09	0.5	0.186 U	0.216 U
Polychlorinated Biphenyl Homologs					
Monochlorobiphenyls	UG/L	-	-	0.00046 U	0.00044 U
Dichlorobiphenyls	UG/L	-	-	0.00019 U	0.00018 U
Trichlorobiphenyls	UG/L	-	-	0.00033 U	0.00031 U
Tetrachlorobiphenyls	UG/L	-	-	0.00038 U	0.00036 U
Pentachlorobiphenyls	UG/L	-	-	0.00056 U	0.00053 U
Hexachlorobiphenyls	UG/L	-	-	0.0030	0.00058 U
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	0.0030	0.0014 U
Dissolved Polychlorinated Biphenyl Homologs					
Tetrachlorobiphenyls	UG/L	-	-	NA	NA
Total Polychlorinated Biphenyls	UG/L	0.09	0.5	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.
Criteria (2)- 40 CFR Part 761.79(b)(1)(iii), Polychlorinated Biphenyls (PCBs), Decontamination Standard, Unrestricted Use.
Flags assigned during chemistry validation are shown.
Concentration Exceeds Criteria (1) bold, italic, red font.
Concentration Exceeds Criteria (2)
U - - Not detected above the reported quanitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
NA - Not analyzed. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

TABLE 3-9
COMPARISON OF PCB HOMOLOG EFFECTIVE SOLUBILITY TO OBSERVED GROUNDWATER CONCENTRATIONS
TONAWANDA FORGE SITE

				Sample ID and Measured PCB Concentrations						Fractional PCB Content in Groundwater						
PCB Homologs	**Typical Fractional Content of PCB Homologs in Aroclor 1248**	**Average Solubility***	**Effective Solubility for Aroclor 1248 Dissolved in Water**	**AOC-03-PZ-09**	**AOC-03-PZ-10**	**AOC-13-MW-02I**	**AOC-13-MW-02S**	**AOC-13-MW-19S**	**MW-J**	**Dissolved Aroclor 1248**	**AOC-03-PZ-09**	**AOC-03-PZ-10**	**AOC-13-MW-02I**	**AOC-13-MW-02S**	**AOC-13-MW-19S**	**MW-J**
Monochlorobiphenyls	0.07	3.74	2.62E-03	ND	ND	1.20E-05	4.10E-04	ND	ND	0.05	ND	ND	0.01	0.02	ND	ND
Dichlorobiphenyls	1.55	1.02	1.58E-02	1.20E-05	1.10E-04	1.20E-04	3.40E-03	2.20E-04	ND	0.28	0.01	0.06	0.08	0.17	0.07	ND
Trichlorobiphenyls	21.27	0.149	**3.17E-02**	2.10E-04	6.80E-04	5.60E-04	7.80E-03	1.10E-03	ND	**0.56**	0.18	0.38	0.38	0.38	0.34	ND
Tetrachlorobiphenyls	32.77	0.265	4.16E-03	**9.20E-04**	**8.70E-04**	**6.90E-04**	**8.40E-03**	**1.50E-03**	ND	0.07	**0.77**	**0.48**	**0.47**	**0.41**	**0.46**	ND
Pentachlorobiphenyls	**42.92**	5.08E-03	2.18E-03	4.60E-05	1.10E-04	8.70E-05	5.20E-04	3.90E-04	ND	0.04	0.04	0.06	0.06	0.03	0.12	ND
Hexachlorobiphenyls	1.61	1.58E-03	2.54E-05	ND	2.80E-05	ND	7.60E-06	2.80E-05	3.00E-06	4.50E-04	ND	0.02	ND	0.00	0.01	**1.00**
Heptachlorobiphenyls	0.02	2.02E-04	4.04E-08	ND	ND	ND	ND	ND	ND	7.15197E-07	ND	ND	ND	ND	ND	ND
Octachlorobiphenyls	ND	1.03E-04	0	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND
Total PCBs			0.06	0.00119	0.00180	0.00147	0.0205	0.0032	3.00E-06							

Notes:
* Average of published solubility values for PCB congener group. Data taken from Appendix H of Wischkaemper et al. (2013).
Aqueous concentrations given in milligrams per liter.
Bold numbers identifies homologs with greatest abundance.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			B-01	B-01	B-02	B-02	B-03
Sample ID			B-1	BD OF B-1	B-2	B-2	B-3
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			16.0-18.0	16.0-18.0	8.0-12.0	12.0-16.0	12.0-16.0
Date Sampled			09/03/02	09/03/02	09/03/02	09/03/02	09/03/02
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			B-01	B-01	B-02	B-02	B-03
Sample ID			B-1	BD OF B-1	B-2	B-2	B-3
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			16.0-18.0	16.0-18.0	8.0-12.0	12.0-16.0	12.0-16.0
Date Sampled			09/03/02	09/03/02	09/03/02	09/03/02	09/03/02
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25	0.0704	0.213	0.0124	0.00859	
Aroclor 1260	MG/KG	25					
Total PCBs	MG/KG	25	0.0704	0.213	0.0124	0.00859	

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			B-04	B-05	B-06	B-07	RR-008A
Sample ID			B-4	B-5	B-6	B-7	RR-008A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			12.0-16.0	12.0-16.0	12.0-16.0	12.0-16.0	0.0-4.0
Date Sampled			09/03/02	09/03/02	09/03/02	09/03/02	03/08/99
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			B-04	B-05	B-06	B-07	RR-008A
Sample ID			B-4	B-5	B-6	B-7	RR-008A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			12.0-16.0	12.0-16.0	12.0-16.0	12.0-16.0	0.0-4.0
Date Sampled			09/03/02	09/03/02	09/03/02	09/03/02	03/08/99
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25					0.092
Aroclor 1260	MG/KG	25					0.086
Total PCBs	MG/KG	25					0.178

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-016B	RR-024A	RR-031A	RR-034A	RR-044A
Sample ID			RR-016B	RR-024A	RR-031A	RR-034A	RR-044A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/09/99	03/10/99	03/10/99	03/10/99	03/10/99
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-016B	RR-024A	RR-031A	RR-034A	RR-044A
Sample ID			RR-016B	RR-024A	RR-031A	RR-034A	RR-044A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/09/99	03/10/99	03/10/99	03/10/99	03/10/99
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25		180	3.2	9	0.57
Aroclor 1260	MG/KG	25					0.18
Total PCBs	MG/KG	25		180	3.2	9	0.75

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-057B	RR-066A	RR-071A	RR-071A	RR-072B
Sample ID			RR-057B	RR-066A	RR-071A	RR-999A	RR-072B
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0	4.0-8.0
Date Sampled			03/11/99	03/12/99	03/12/99	03/12/99	03/12/99
Parameter	**Units**	**Criteria***				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-057B	RR-066A	RR-071A	RR-071A	RR-072B
Sample ID			RR-057B	RR-066A	RR-071A	RR-999A	RR-072B
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0	4.0-8.0
Date Sampled			03/11/99	03/12/99	03/12/99	03/12/99	03/12/99
Parameter	**Units**	**Criteria***				Field Duplicate (1-1)	
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25	1.4	1.8	2.9	2.8	2.3
Aroclor 1260	MG/KG	25			0.46	0.48	
Total PCBs	MG/KG	25	1.4	1.8	3.36	3.28	2.3

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-085B	RR-097B	RR-101A	RR-115A	RR-124B
Sample ID			RR-085B	RR-097B	RR-101A	RR-115A	RR-124B
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	4.0-8.0	0.0-4.0	0.0-4.0	4.0-8.0
Date Sampled			03/15/99	03/15/99	03/16/99	03/16/99	03/17/99
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-085B	RR-097B	RR-101A	RR-115A	RR-124B
Sample ID			RR-085B	RR-097B	RR-101A	RR-115A	RR-124B
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	4.0-8.0	0.0-4.0	0.0-4.0	4.0-8.0
Date Sampled			03/15/99	03/15/99	03/16/99	03/16/99	03/17/99
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25	4	1.6	0.12	0.16	
Aroclor 1260	MG/KG	25				0.077	
Total PCBs	MG/KG	25	4	1.6	0.12	0.237	

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-131B	RR-142A	RR-150A	RR-163-2A	RR-163-4A
Sample ID			RR-131B	RR-142A	RR-150A	RR-163-2A	RR-163-4A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/17/99	03/17/99	03/18/99	03/19/99	03/19/99
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	2.2	1.5
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	3	0.84
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA		0.39
Benzene	MG/KG	89	NA	NA	NA	0.47	0.27
Ethylbenzene	MG/KG	780	NA	NA	NA		0.28
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	2.8	0.31
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA		
Naphthalene	MG/KG	1000	NA	NA	NA	1.7	0.81
n-Butylbenzene	MG/KG	1000	NA	NA	NA	10	1.2
n-Propylbenzene	MG/KG	1000	NA	NA	NA	4.9	0.27
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	2.6	
tert-Butylbenzene	MG/KG	1000	NA	NA	NA		
Toluene	MG/KG	1000	NA	NA	NA	1.9	0.33
Xylene (total)	MG/KG	1000	NA	NA	NA	3.2	1.7
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA		
Anthracene	MG/KG	1000	NA	NA	NA		4.2
Benzo(a)anthracene	MG/KG	11	NA	NA	NA		8.1
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA		6.5
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA		4.9
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA		7.8
Chrysene	MG/KG	110	NA	NA	NA		7.8

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-131B	RR-142A	RR-150A	RR-163-2A	RR-163-4A
Sample ID			RR-131B	RR-142A	RR-150A	RR-163-2A	RR-163-4A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/17/99	03/17/99	03/18/99	03/19/99	03/19/99
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	3.7	22
Fluorene	MG/KG	1000	NA	NA	NA		
Naphthalene	MG/KG	1000	NA	NA	NA		
Phenanthrene	MG/KG	1000	NA	NA	NA	4	15
Pyrene	MG/KG	1000	NA	NA	NA		14
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	7.7	90.3
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	7.7	90.3
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25			0.027	NA	NA
Aroclor 1260	MG/KG	25				NA	NA
Total PCBs	MG/KG	25			0.027	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-163A	RR-168A	RR-178A	RR-193A	RR-193A
Sample ID			RR-163A	RR-168A	RR-178A	RR-193A	RR-998A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/19/99	03/19/99	03/22/99	03/22/99	03/22/99
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	14	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	39	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	8.4	NA	NA	NA	NA
Benzene	MG/KG	89	1.1	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	14	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	4.3	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	7.7	NA	NA	NA	NA
Naphthalene	MG/KG	1000	14	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	29	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	12	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	4.5	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	29	NA	NA	NA	NA
Toluene	MG/KG	1000	15	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	33	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	0.89	NA	NA	NA	NA
Anthracene	MG/KG	1000	0.87	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11		NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1		NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11		NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110		NA	NA	NA	NA
Chrysene	MG/KG	110		NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-163A	RR-168A	RR-178A	RR-193A	RR-193A
Sample ID			RR-163A	RR-168A	RR-178A	RR-193A	RR-998A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/19/99	03/19/99	03/22/99	03/22/99	03/22/99
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	1.9	NA	NA	NA	NA
Fluorene	MG/KG	1000	0.92	NA	NA	NA	NA
Naphthalene	MG/KG	1000	9.3	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	2.7	NA	NA	NA	NA
Pyrene	MG/KG	1000	1.1	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	17.68	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	17.68	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25		1.5	0.41	0.23	0.3
Aroclor 1260	MG/KG	25	0.026	0.24	0.35		
Total PCBs	MG/KG	25	0.026	1.74	0.76	0.23	0.3

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-199A	RR-204B	RR-210A	RR-222A	RR-222A
Sample ID			RR-199A	RR-204B	RR-210A	RR-222A	RR-997A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-4.0	4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/23/99	03/24/99	03/29/99	03/30/99	03/30/99
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA	NA
Semivolatile Organic Compounds							
Acenaphthene	MG/KG	1000	NA	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-199A	RR-204B	RR-210A	RR-222A	RR-222A
Sample ID			RR-199A	RR-204B	RR-210A	RR-222A	RR-997A
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-4.0	4.0-8.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/23/99	03/24/99	03/29/99	03/30/99	03/30/99
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Semivolatile Organic Compounds							
Fluoranthene	MG/KG	1000	NA	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA	NA
Polychlorinated Biphenyls							
Aroclor 1248	MG/KG	25	0.07	0.12	46	24	19
Aroclor 1260	MG/KG	25					
Total PCBs	MG/KG	25	0.07	0.12	46	24	19

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-233A	RR-251A	RR-259A	RR-267A
Sample ID			RR-233A	RR-251A	RR-259A	RR-267A
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/31/99	04/01/99	04/02/99	04/02/99
Parameter	**Units**	**Criteria***				
Volatile Organic Compounds						
1,2,4-Trimethylbenzene	MG/KG	380	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	380	NA	NA	NA	NA
4-Isopropyltoluene (p-Cymene)	MG/KG	-	NA	NA	NA	NA
Benzene	MG/KG	89	NA	NA	NA	NA
Ethylbenzene	MG/KG	780	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	-	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	1000	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA
n-Butylbenzene	MG/KG	1000	NA	NA	NA	NA
n-Propylbenzene	MG/KG	1000	NA	NA	NA	NA
sec-Butylbenzene	MG/KG	1000	NA	NA	NA	NA
tert-Butylbenzene	MG/KG	1000	NA	NA	NA	NA
Toluene	MG/KG	1000	NA	NA	NA	NA
Xylene (total)	MG/KG	1000	NA	NA	NA	NA
Semivolatile Organic Compounds						
Acenaphthene	MG/KG	1000	NA	NA	NA	NA
Anthracene	MG/KG	1000	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	11	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	1.1	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	11	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	110	NA	NA	NA	NA
Chrysene	MG/KG	110	NA	NA	NA	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 3-10
OFF-SITE ANALYTICAL RESULTS
TONAWANDA FORGE SITE

Location ID			RR-233A	RR-251A	RR-259A	RR-267A
Sample ID			RR-233A	RR-251A	RR-259A	RR-267A
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled			03/31/99	04/01/99	04/02/99	04/02/99
Parameter	**Units**	**Criteria***				
Semivolatile Organic Compounds						
Fluoranthene	MG/KG	1000	NA	NA	NA	NA
Fluorene	MG/KG	1000	NA	NA	NA	NA
Naphthalene	MG/KG	1000	NA	NA	NA	NA
Phenanthrene	MG/KG	1000	NA	NA	NA	NA
Pyrene	MG/KG	1000	NA	NA	NA	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	500	NA	NA	NA	NA
Total Semivolatile Organic Compounds	MG/KG	500	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1248	MG/KG	25	0.037	0.4	0.73	0.12
Aroclor 1260	MG/KG	25			0.3	0.25
Total PCBs	MG/KG	25	0.037	0.4	1.03	0.37

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial, including CP-51 Table 1, Effective 12/2/10.

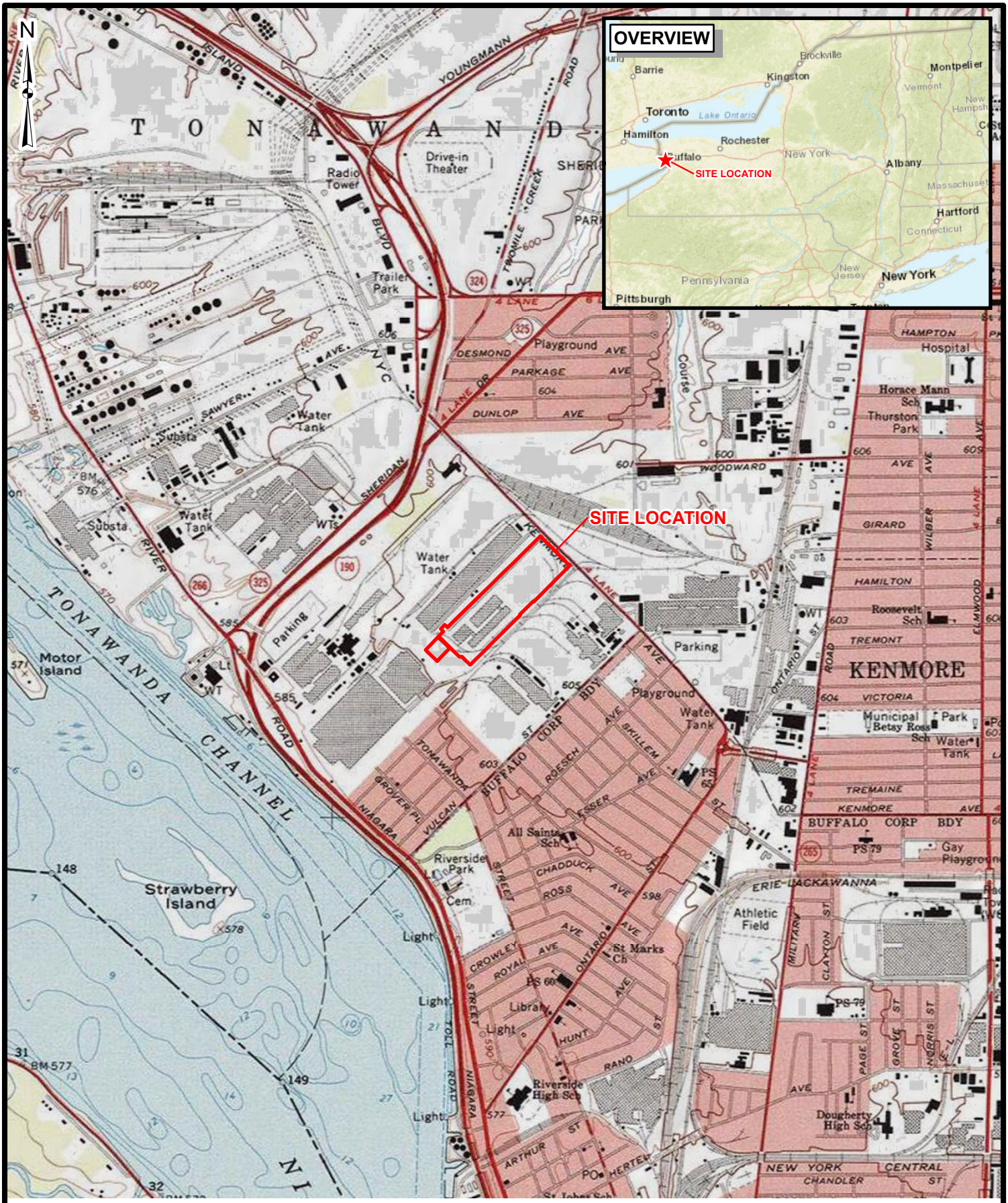
Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ND or Empty cell - Not detected. NA - Not analyzed.

Only Detected Results Reported.

FIGURES



Sources: © 2013 National Geographic TOPO!
ESRI World Street Map

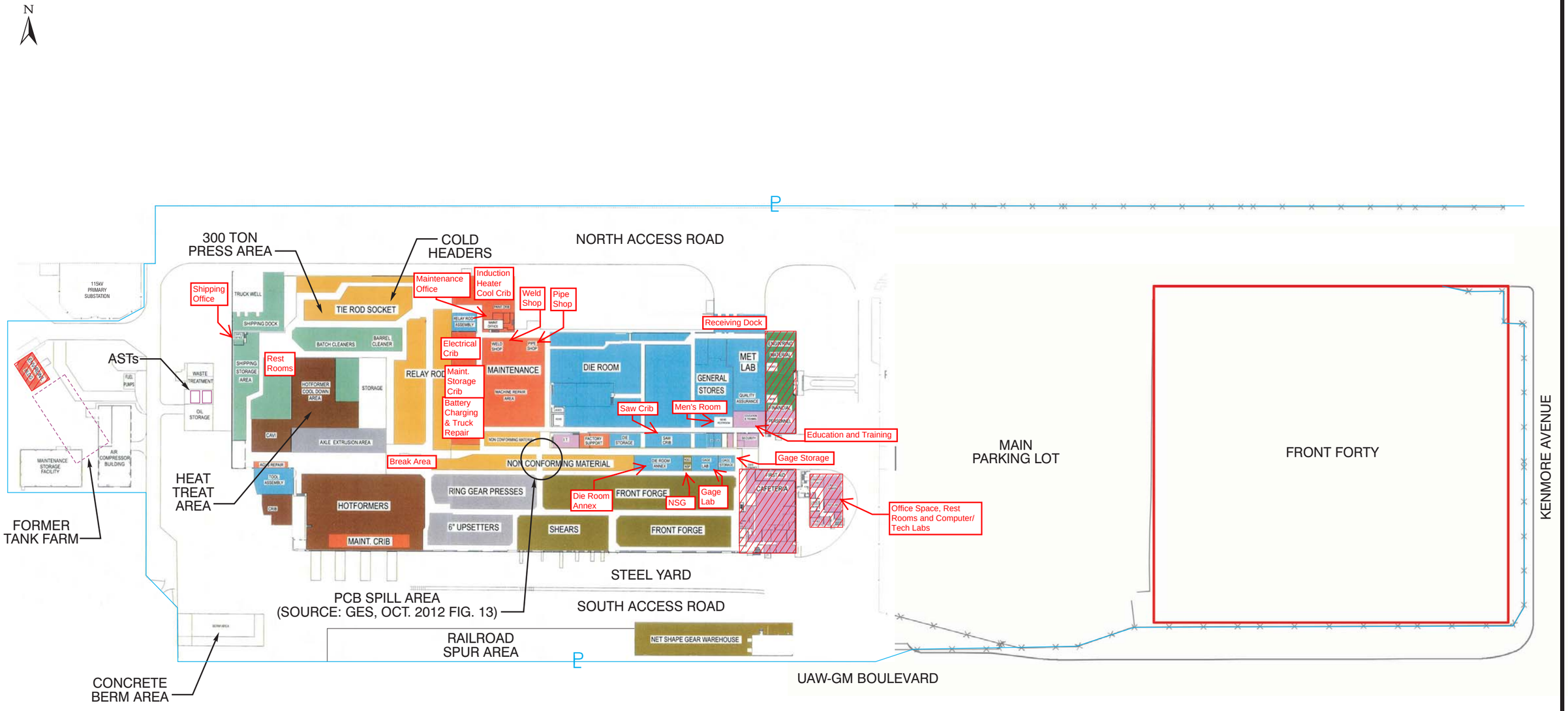
2,000 0 2,000 Feet

AECOM

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SITE LOCATION

FIGURE 1-1

J:\Projects\11176989\GIS\MAPS\FS\01-01 SITE LOCATION.mxd 4/17/2018



- Existing Structures

P - Approximate Property Line

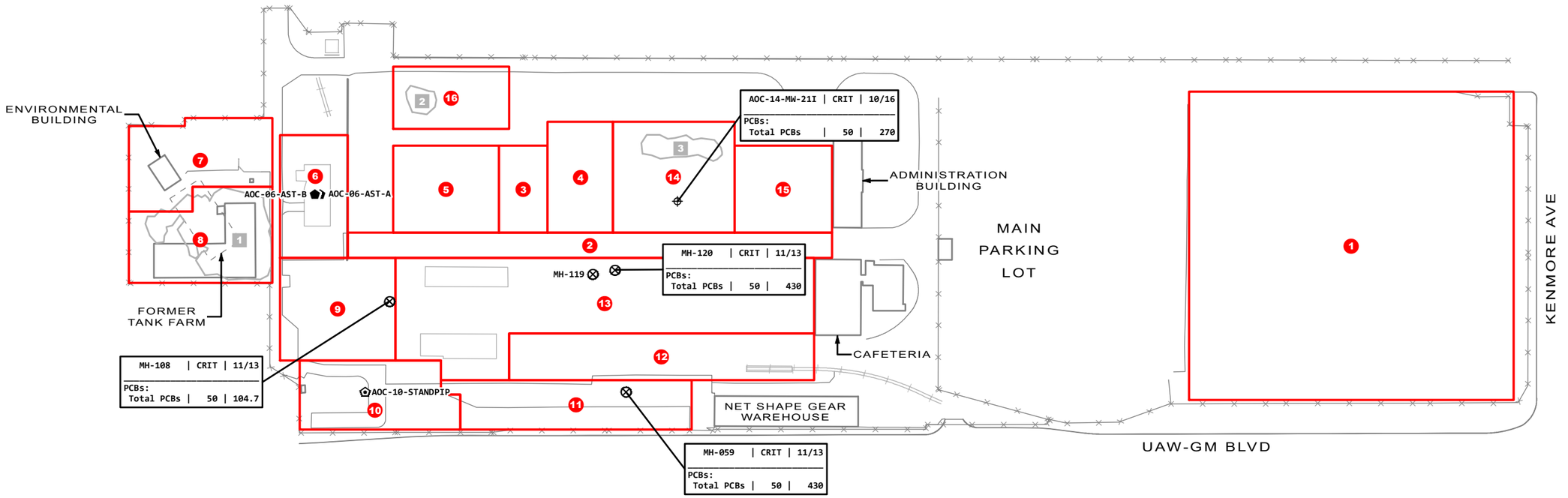
NOTES: Not to scale.
SOURCE: AAM 02/05/2001 Emergency Evacuation and Shelter Plan

AG20961-11176989-051514-GCM

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
HISTORICAL SITE PLAN

AECOM

FIGURE 1-2



Legend

- AST Sample
- Standpipe Sample
- Manhole
- Monitoring Well
- Area of Concern
- Debris/Waste Pile (Removed Feb. 2016)

Notes: Units are in µg/L; Locations shown without results indicate that no compounds exceeded criteria
Criteria: 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e)
Source: Tonawanda Forge Site Remedial Investigation Report, URS Corportation, January 2018.

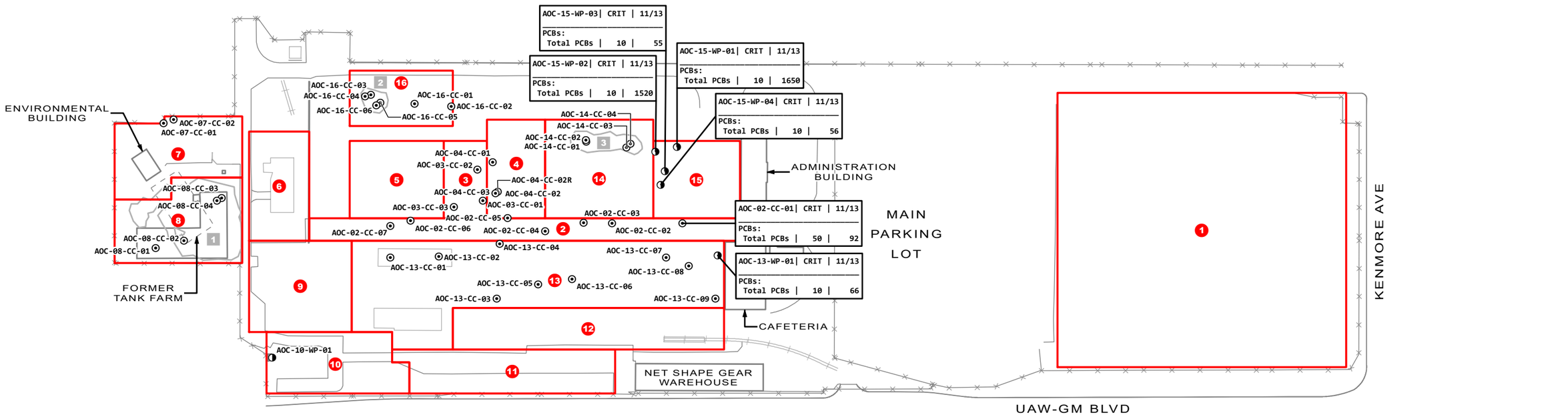
200 0 200 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
NON-AQUEOUS PHASE LIQUID
HISTORIC ANALYTICAL RESULTS

AECOM

FIGURE 1-3A

J:\Projects\11176989\GIS\MAPS\RI PHASE 2\04-02 NAPL ANALYTICAL.mxd 5/22/2017



Legend

- Chip Sample (Concrete, Brick, & Asphalt)
- Wipe Sample
- Area of Concern
- Debris/Waste Pile (Removed Feb. 2016)

Notes: Units are in mg/kg, except for Wipe Samples, which are in µg/wipe; Locations shown without results indicate that no compounds exceeded criteria

Criteria: 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e)

Source: Tonawanda Forge Site Remedial Investigation Report, URS Corportation, January 2018.

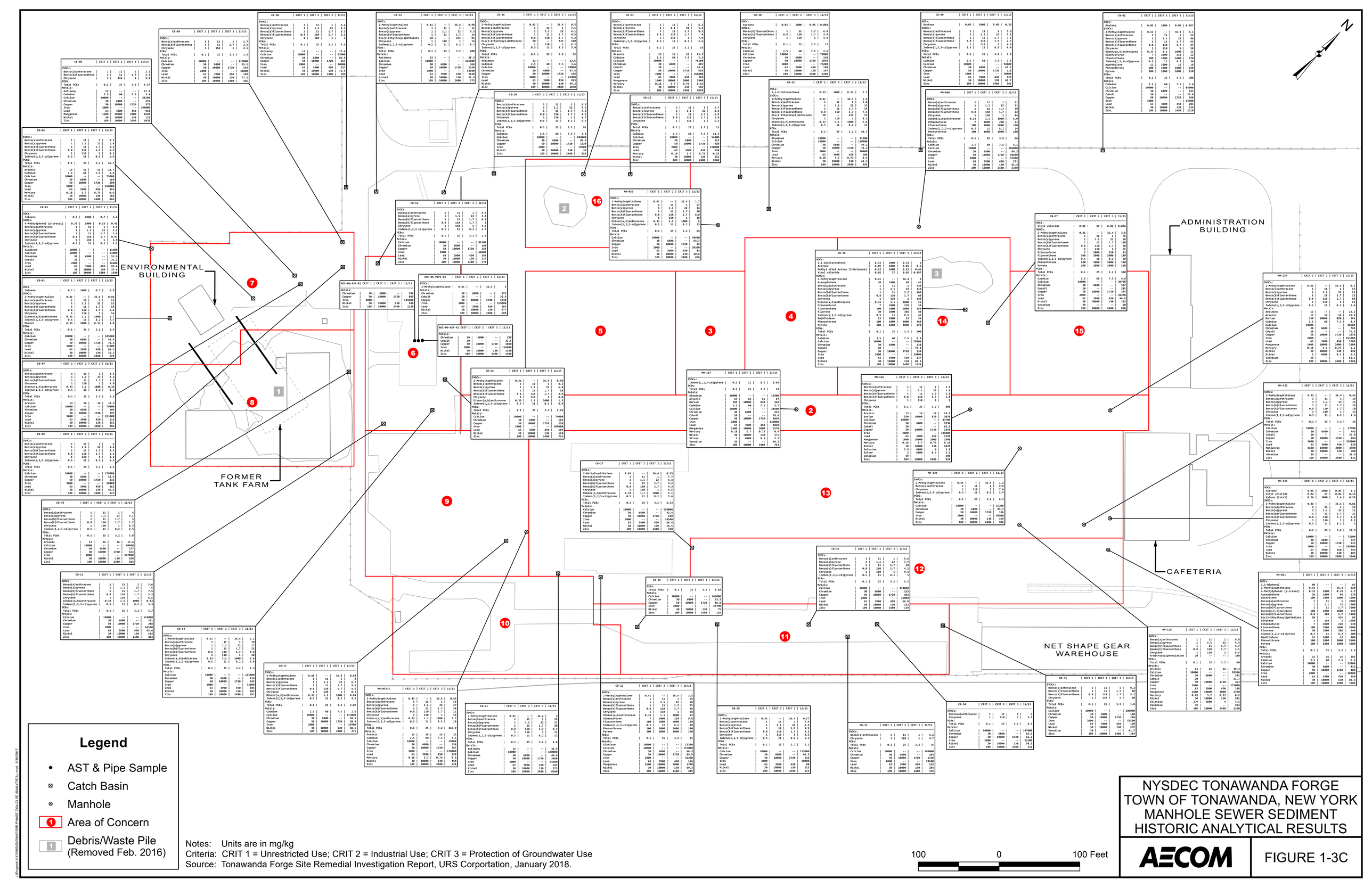
200 0 200 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
CONCRETE AND ASPHALT CHIP, BRICK, & WIPE SAMPLES HISTORIC PCB RESULTS

AECOM

FIGURE 1-3B

J:\Projects\11176989\GIS\MAPS\RI PHASE 2\04-04 MISC ANALYTICAL.mxd 6/5/2017



Legend

- AST & Pipe Sample
- Catch Basin
- Manhole
- 1 Area of Concern
- 1 Debris/Waste Pile (Removed Feb. 2016)

Notes: Units are in mg/kg
Criteria: CRIT 1 = Unrestricted Use; CRIT 2 = Industrial Use; CRIT 3 = Protection of Groundwater Use
Source: Tonawanda Forge Site Remedial Investigation Report, URS Corportation, January 2018.

100 0 100 Feet

NYSDEC TONAWANDA FORGE TOWN OF TONAWANDA, NEW YORK MANHOLE SEWER SEDIMENT HISTORIC ANALYTICAL RESULTS

AECOM

FIGURE 1-3C

CB-10

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	3.4
Benzo(a)pyrene	1	1.1	22	3.3
Benzo(b)fluoranthene	1	11	1.7	3.3
Benzo(k)fluoranthene	0.8	110	1.7	2.1
Chrysene	1	110	1	3
PCBs:				
Total PCBs	0.1	25	3.2	4.5
Metals:				
Antimony	12	--	--	12.6
Calcium	10000	--	--	65900
Chromium	30	6800	--	85.9
Copper	50	10000	1720	117
Iron	2000	--	--	65.1
Lead	63	3900	450	102
Nickel	30	10000	130	77.2
Zinc	109	10000	2480	466

CB-09

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	1.7
Benzo(b)fluoranthene	1	11	1.7	2.2
Chrysene	1	110	1	2.3
PCBs:				
Total PCBs	0.1	25	3.2	2.4

CB-06

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	2.5
Benzo(b)fluoranthene	1	11	1.7	3.3
Chrysene	1	110	1	3.2
PCBs:				
Total PCBs	0.1	25	3.2	1.57
Metals:				
Antimony	12	--	--	17.4
Cadmium	2.5	60	7.5	3.4
Calcium	10000	--	--	68200
Chromium	30	6800	--	255
Copper	50	10000	1720	379
Iron	2000	--	--	30000
Lead	63	3900	450	918
Manganese	1600	10000	2000	1640
Nickel	30	10000	130	131
Zinc	109	10000	2480	1030

CB-04

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	2.3
Benzo(a)pyrene	1	1.1	22	1.9
Benzo(b)fluoranthene	1	11	1.7	2.2
Benzo(k)fluoranthene	0.8	110	1.7	1.5
Chrysene	1	110	1	1.9
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.6
PCBs:				
Total PCBs	0.1	25	3.2	45.7
Metals:				
Arsenic	13	16	16	22.7
Cadmium	2.5	60	7.5	2.6
Calcium	10000	--	--	73000
Chromium	30	6800	--	169
Copper	50	10000	1720	1020
Iron	2000	--	--	34000
Lead	63	3900	450	343
Mercury	0.18	5.7	0.73	0.6
Nickel	30	10000	130	166
Zinc	109	10000	2480	866

CB-03

CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:			
Toluene	0.7	1000	0.7	1.6
SVOCs:			
4-Methylphenol (p-cresol)	0.33	1000	0.33	0.45
Benzo(a)anthracene	1	11	1	1.5
Benzo(a)pyrene	1	1.1	22	1.5
Benzo(b)fluoranthene	1	11	1.7	2.4
Benzo(k)fluoranthene	0.8	110	1.7	0.9
Chrysene	1	110	1	1.9
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.1
Metals:				
Calcium	10000	--	--	11600
Cobalt	10000	--	--	9300
Chromium	30	6800	--	52.9
Cobalt	20	--	--	31.3
Iron	2000	--	--	26600
Lead	63	3900	450	83.4
Nickel	30	10000	130	37.4
Zinc	109	10000	2480	339

CB-01

CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:			
Toluene	0.7	1000	0.7	6.9
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	0.94
Benzo(a)anthracene	1	11	1	15
Benzo(a)pyrene	1	1.1	22	12
Benzo(b)fluoranthene	1	11	1.7	19
Benzo(k)fluoranthene	0.8	110	1.7	6.4
Chrysene	1	110	1	16
Dibenz(a,h)anthracene	0.33	1.1	1000	1.1
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	7.7
Phenol	0.33	1000	0.33	1.8
PCBs:				
Total PCBs	0.1	25	3.2	2.3
Metals:				
Calcium	10000	--	--	105000
Chromium	30	6800	--	43.4
Copper	50	10000	1720	71.9
Iron	2000	--	--	29000
Lead	63	3900	450	88.5
Nickel	30	10000	130	76.2
Zinc	109	10000	2480	578

CB-07

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	1.5
Benzo(a)pyrene	1	1.1	22	1.2
Benzo(b)fluoranthene	1	11	1.7	1.8
Benzo(k)fluoranthene	0.8	110	1.7	0.9
Dibenz(a,h)anthracene	0.33	1.1	1000	0.34
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.2
PCBs:				
Total PCBs	0.1	25	3.2	6.5
Metals:				
Arsenic	13	16	16	13.2
Calcium	10000	--	--	18000
Chromium	30	6800	--	37.1
Copper	50	10000	1720	197
Iron	2000	--	--	11000
Lead	63	3900	450	115
Nickel	30	10000	130	151
Zinc	109	10000	2480	482

CB-08

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	2
Benzo(a)pyrene	1	1.1	22	1.4
Benzo(b)fluoranthene	1	11	1.7	2.5
Benzo(k)fluoranthene	0.8	110	1.7	1.1
Chrysene	1	110	1	2.2
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.3
PCBs:				
Total PCBs	0.1	25	3.2	1.4
Metals:				
Calcium	10000	--	--	170000
Chromium	30	6800	--	52.6
Copper	50	10000	1720	131
Iron	2000	--	--	28400
Lead	63	3900	450	162
Nickel	30	10000	130	49.6
Zinc	109	10000	2480	472

CB-39

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	4
Benzo(a)pyrene	1	1.1	22	3.1
Benzo(b)fluoranthene	1	11	1.7	5
Benzo(k)fluoranthene	0.8	110	1.7	2.3
Chrysene	1	110	1	4.3
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	2.5
PCBs:				
Total PCBs	0.1	25	3.2	5.8
Metals:				
Arsenic	13	16	16	15.6
Calcium	10000	--	--	59400
Chromium	30	6800	--	223
Copper	50	10000	1720	1070
Iron	2000	--	--	147000
Nickel	30	10000	130	168
Zinc	109	10000	2480	184

CB-11

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	5.6
Benzo(a)pyrene	1	1.1	22	5
Benzo(b)fluoranthene	1	11	1.7	7.5
Benzo(k)fluoranthene	0.8	110	1.7	3.3
Chrysene	1	110	1	6.5
Dibenz(a,h)anthracene	0.33	1.1	1000	0.93
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	3.3
PCBs:				
Total PCBs	0.1	25	3.2	5.7
Metals:				
Calcium	10000	--	--	124000
Chromium	30	6800	--	181
Copper	50	10000	1720	288
Iron	2000	--	--	64100
Lead	63	3900	450	414
Nickel	30	10000	130	166
Zinc	109	10000	2480	484

CB-13

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	1.1
Benzo(a)anthracene	1	11	1	10
Benzo(a)pyrene	1	1.1	22	17
Benzo(b)fluoranthene	1	11	1.7	19
Benzo(k)fluoranthene	0.8	110	1.7	8.8
Chrysene	1	110	1	20
Dibenz(a,h)anthracene	0.33	1.1	1000	2.6
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	9.9
PCBs:				
Total PCBs	0.1	25	3.2	2.3
Metals:				
Calcium	10000	--	--	82300
Chromium	30	6800	--	116
Copper	50	10000	1720	243
Iron	2000	--	--	71800
Lead	63	3900	450	384
Nickel	30	10000	130	103
Zinc	109	10000	2480	593

CB-17

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	0.58
Benzo(a)anthracene	1	11	1	19
Benzo(a)pyrene	1	1.1	22	17
Benzo(b)fluoranthene	1	11	1.7	22
Benzo(k)fluoranthene	0.8	110	1.7	9.6
Chrysene	1	110	1	20
Dibenz(a,h)anthracene	0.33	1.1	1000	1.2
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	10
PCBs:				
Total PCBs	0.1	25	3.2	267.9
Metals:				
Antimony	12	--	--	32.5
Cadmium	2.5	60	7.5	3.5
Calcium	10000	--	--	24600
Chromium	30	6800	--	158
Copper	50	10000	1720	367
Iron	2000	--	--	170000
Lead	63	3900	450	839
Mercury	0.18	5.7	0.73	0.2
Nickel	30	10000	130	158
Zinc	109	10000	2480	638

CB-15

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	0.98
Benzo(a)anthracene	1	11	1	11
Benzo(a)pyrene	1	1.1	22	9.3
Benzo(b)fluoranthene	1	11	1.7	14
bis(2-Ethylhexyl)phthalate	50	--	435	91
Chrysene	1	110	1	12
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	4.5
Metals:				
Antimony	12	--	--	28.3
Calcium	10000	--	--	113000
Chromium	30	6800	--	65.1
Copper	50	10000	1720	157
Iron	2000	--	--	44000
Lead	63	3900	450	168
Nickel	30	10000	130	77.2
Zinc	109	10000	2480	575

CB-20

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	6.3
Benzo(a)pyrene	1	1.1	22	5.3
Benzo(b)fluoranthene	1	11	1.7	7.2
Benzo(k)fluoranthene	0.8	110	1.7	4.1
Chrysene	1	110	1	6.7
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.5
PCBs:				
Total PCBs	0.1	25	3.2	81
Metals:				
Cadmium	2.5	60	7.5	3.2
Calcium	10000	--	--	264000
Chromium	30	6800	--	96.2
Copper	50	10000	1720	1130
Iron	2000	--	--	29100
Nickel	30	10000	130	33
Zinc	109	10000	2480	983

CB-16

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	0.5
Benzo(a)anthracene	1	11	1	7.1
Benzo(a)pyrene	1	1.1	22	6.1
Benzo(b)fluoranthene	1	11	1.7	8.4
Benzo(k)fluoranthene	0.8	110	1.7	4.2
bis(2-Ethylhexyl)phthalate	50	--	435	52
Chrysene	1	110	1	8.2
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.4
PCBs:				
Total PCBs	0.1	25	3.2	32
Metals:				
Antimony	12	--	--	12.6
Calcium	10000	--	--	73000
Chromium	30	6800	--	98.2
Copper	50	10000	1720	158
Iron	2000	--	--	33100
Lead	63	3900	450	329
Manganese	1600	10000	2000	1070
Mercury	0.18	5.7	0.73	0.51
Nickel	30	10000	130	102
Zinc	109	10000	2480	1070

CB-23

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	6.2
Benzo(a)pyrene	1	1.1	22	5.1
Benzo(b)fluoranthene	1	11	1.7	8.3
Benzo(k)fluoranthene	0.8	110	1.7	4.2
Chrysene	1	110	1	7.9
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.6
PCBs:				
Total PCBs	0.1	25	3.2	33
Metals:				
Arsenic	13	16	16	21.7
Cadmium	2.5	60	7.5	5.5
Calcium	10000	--	--	76100
Chromium	30	6800	--	141
Cobalt	20	--	--	24.6
Copper	50	10000	1720	1020
Iron	2000	--	--	36000
Lead	63	3900	450	329
Manganese	1600	10000	2000	1080
Mercury	0.18	5.7	0.73	0.51
Nickel	30	10000	130	102
Zinc	109	10000	2480	1070

CB-25

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	5.7
Benzo(a)pyrene	1	1.1	22	4.4
Benzo(b)fluoranthene	1	11	1.7	6.9
Benzo(k)fluoranthene	0.8	110	1.7	3.4
Chrysene	1	110	1	5.3
PCBs:				
Total PCBs	0.1	25	3.2	11
Metals:				
Cadmium	2.5	60	7.5	16.2
Calcium	10000	--	--	54400
Chromium	30	6800	--	213
Copper	50	10000	1720	410
Iron	2000	--	--	110000
Lead	63	3900	450	336
Mercury	0.18	5.7	0.73	0.35
Nickel	30	10000	130	322
Zinc	109	10000	2480	1080

CB-26

CRIT 1	CRIT 2	CRIT 3	11/13
PCBs:			
Total PCBs	0.1	25	3.2	0.59
Metals:			
Calcium	10000	--	--	165000
Chromium	30	6800	--	52.2
Copper	50	10000	1720	66.8
Iron	2000	--	--	26700
Nickel	30	10000	130	75
Zinc	109	10000	2480	316

CB-12

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	4.3
Benzo(a)pyrene	1	1.1	22	3.4
Benzo(b)fluoranthene	1	11	1.7	6.1
Benzo(k)fluoranthene	0.8	110	1.7	3
Chrysene	1	110	1	5.6
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	3.7
PCBs:				
Total PCBs	0.1	25	3.2	1.9
Metals:				
Calcium	10000	--	--	82300
Chromium	30	6800	--	116
Copper	50	10000	1720	250
Iron	2000	--	--	68800
Lead	63	3900	450	261
Nickel	30	10000	130	127
Zinc	109	10000	2480	574

MW-055

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	1.7
Benzo(a)anthracene	1	11	1	17
Benzo(a)pyrene	1	1.1	22	14
Benzo(b)fluoranthene	1	11	1.7	20
Benzo(k)fluoranthene	0.8	110	1.7	8.8
Chrysene	1	110	1	18
Dibenz(a,h)anthracene	0.33	1.1	1000	5
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	13
PCBs:				
Total PCBs	0.1	25	3.2	24
Metals:				
Calcium	10000	--	--	35600
Chromium	30	6800	--	66.7
Copper	50	10000	1720	99
Iron	2000	--	--	29200
Lead	63	3900	450	84
Nickel	30	10000	130	40.6
Zinc	109	10000	2480	456

CB-30

CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:			
Acetone	0.05	1000	0.05	0.084
SVOCs:			
Benzo(b)fluoranthene	1	11	1.7	6.9
Benzo(k)fluoranthene	0.8	110	1.7	2.6
Chrysene	1	110	1	4.9
PCBs:				
Total PCBs	0.1	25	3.2	11
Metals:				
Arsenic	13	16	16	13
Cadmium	2.5	60	7.5	2.5
Calcium	10000	--	--	79000
Chromium	30	6800	--	158
Copper	50	10000	1720	2840
Iron	2000	--	--	76200
Lead	63	3900	450	199
Nickel	30	10000	130	97.1
Zinc	109	10000	2480	1280

CB-32

CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:			
1,1-Dichloroethene	0.33	1000	0.33	1.3
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	1.6
Benzo(a)anthracene	1	11	1	7.7
Benzo(a)pyrene	1	1.1	22	12
Benzo(b)fluoranthene	1	11	1.7	19
Benzo(k)fluoranthene	0.8	110	1.7	7.5
bis(2-Ethylhexyl)phthalate	50	--	435	3.4
Chrysene	1	110	1	16
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5
PCBs:				
Total PCBs	0.1	25	3.2	49.7
Metals:				
Calcium	10000	--	--	11200
Chromium	30	6800	--	123
Copper	50	10000	1720	103
Iron	2000	--	--	31000
Lead	63	3900	450	66.8
Nickel	30	10000	130	133
Zinc	109	10000	2480	139

CB-31

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	9.6
Benzo(a)pyrene	1	1.1	22	7.7
Benzo(b)fluoranthene	1	11	1.7	10
Benzo(k)fluoranthene	0.8	110	1.7	4.3
Chrysene	1	110	1	9.4
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5
PCBs:				
Total PCBs	0.1	25	3.2	4.2
Metals:				
Calcium	10000	--	--	174000
Chromium	30	6800	--	123
Copper	50	10000	1720	103
Iron	2000	--	--	31000
Lead	63	3900	450	66.8
Nickel	30	10000	130	133
Zinc	109	10000	2480	139

CB-27

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	0.55
Benzo(a)anthracene	1	11	1	7.7
Benzo(a)pyrene	1	1.1	22	6.4
Benzo(b)fluoranthene	1	11	1.7	9.2
Benzo(k)fluoranthene	0.8	110	1.7	4.2
Chrysene	1	110	1	9.5
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.6
PCBs:				
Total PCBs	0.1	25	3.2	4.13
Metals:				
Calcium	10000	--	--	159000
Chromium	30	6800	--	42.4
Copper	50	10000	1720	160
Iron	2000	--	--	24500
Lead	63	3900	450	96.2
Nickel	30	10000	130	54.2
Zinc	109	10000	2480	220

CB-22

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	2.5
Benzo(a)anthracene	1	11	1	65
Benzo(a)pyrene	1	1.1	22	58
Benzo(b)fluoranthene	1	11	1.7	75
Benzo(k)fluoranthene	0.8	110	1.7	36
Chrysene	1	110	1	68
Dibenz(a,h)anthracene	0.33	1.1	1000	12
Fluoranthene	100	1000	1000	210
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	49
Phenanthrene	100	1000	1000	140
Pyrene	100	1000	1000	150
PCBs:				
Total PCBs	0.1	25	3.2	21
Metals:				
Aluminum	10000	--	--	13200
Calcium	10000	--	--	175000
Chromium	30	6800	--	66.5
Copper	50	10000	1720	89.9
Iron	2000	--	--	32200
Lead	63	3900	450	104
Manganese	1600	10000	2000	1760
Nickel	30	10000	130	69.3
Zinc	109	10000	2480	345

CB-28

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
2-Methylnaphthalene	0.41	--	36.4	0.57
Benzo(a)anthracene	1	11	1	7.4
Benzo(a)pyrene	1	1.1	22	6.2
Benzo(b)fluoranthene	1	11	1.7	9.9
Benzo(k)fluoranthene	0.8	110	1.7	4.3
Chrysene	1	110	1	9.1
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.3
PCBs:				
Total PCBs	0.1	25	3.2	2.8
Metals:				
Aluminum	10000	--	--	13200
Calcium	10000	--	--	175000
Chromium	30	6800	--	66.5
Copper	50	10000	1720	89.9
Iron	2000	--	--	32200
Lead	63	3900	450	104
Manganese	1600	10000	2000	1760
Nickel	30	10000	130	69.3
Zinc	109	10000	2480	345

CB-33

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	4.4
Chrysene	1	110	1	4.7
PCBs:				
Total PCBs	0.1	25	3.2	76
Metals:				
Calcium	10000	--	--	169000
Chromium	30	6800	--	103
Copper	50	10000	1720	1350
Iron	2000	--	--	74300
Lead	63	3900	450	284
Nickel	30	10000	130	184
Zinc	109	10000	2480	336

CB-34

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	3
Chrysene	1	110	1	3.5
PCBs:				
Total PCBs	0.1	25	3.2	4.3
Metals:				
Calcium	10000	--	--	197000
Chromium	30	6800	--	83.5
Copper	50	10000	1720	66.2
Iron	2000	--	--	21200
Lead	63	3900	450	102
Nickel	30	10000	130	98.5
Zinc	109	10000	2480	331

CB-35

CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:			
Benzo(a)anthracene	1	11	1	9.2
Benzo(b)fluoranthene	1	11	1.7	10
Chrysene	1	110	1	5.2
PCBs:				
Total PCBs	0.1	25	3.2	1.8
Metals:				
Calcium	10000	--	--	106000
Chromium	30	6800	--	180
Copper	50	10000	1720	288
Iron	2000	--	--	53500
Lead	63	3900	450	139
Nickel	30	10000	130	127
Vanadium	39	--	--	41.7
Zinc	109	10000	2480	484

CB-36

CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:			
1,1-Dichloroethene	0.33	1000	0.33	1
Acetone	0.05	1000	0.05	1.6
Methyl ethyl ketone (2-Butanone)	0.12	1000	0.12	0.46
Vinyl chloride	0.02	27	0.02	0.097
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	9
Acenaphthene	20	1000	98	41
Benzo(a)anthracene	1	11	1	130
Benzo(a)pyrene	1	1.1	22	110
Benzo(b)fluoranthene	1	11	1.7	160
Benzo(k)fluoranthene	0.8	110	1.7	71
Chrysene	1	110	1	140
Dibenz(a,h)anthracene	0.33	1.1	1000	23
Dibenzofuran	7	1000	210	36
Fluoranthene	100	1000	1000	350
Fluorene	30	1000	386	14
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	42
Naphthalene	12	1000	12	36
Phenanthrene	100	1000	1000	360
Pyrene	100	1000	1000	270
PCBs:				
Total PCBs	0.1	25	3.2	100
Metals:				
Cadmium	2.5	60	7.5	6.4
Calcium	10000	--	--	70500
Chromium	30	6800	--	130
Cobalt	20	--	--	76.4
Copper	50	10000	1720	134
Iron	2000	--	--	29000
Lead	63	3900	450	107
Nickel	30	10000	130	81.1
Zinc	109	10000	2480	1220

MW-117

CRIT 1	CRIT 2	CRIT 3	11/13

SWARF MATERIAL DETECTED BETWEEN MH-54, MH-78, AND MH-77 DURING JULY 2003 INSPECTION.THE ENTIRE LINE WAS DRY VACUMMED TO ELIMINATE SWARF MATERIAL. PCB'S WERE REMOVED BUT TAR/SLUDGE MATERIAL REMAINED. LINE WAS ABANDONED AND FILLED WITH GROUT. A NEW LINE WAS INSTALLED.

JULY 2003: HARDENED DEBRIS PRESENT BETWEEN MH-56 AND MH-54

FILLED WITH SEDIMENT AND VEGETATION

COMPLETELY FILLED WITH SEDIMENT AND VEGETATION

FILLED IN DESTROYED

COULD NOT LOCATE

DESTROYED/ COULD NOT LOCATE

UNDERWATER

POSSIBLE TRANSFORMER VAULT

SEALED/BOLTED

FILLED IN WITH SEDIMENT AND VEGETATION

MISSING AND COVERED WITH SEDIMENT AND VEGETATION

COULD NOT LOCATE

FILLED WITH SEDIMENT

PRIOR CLEANING AOC NOV. 1998

PRIOR CLEANING AOC NOV. 1998

FILLED IN

COULD NOT LOCATE POSSILY DESTROYED (IN RUBBLE AREA)

PRIOR CLEANING AOC NOV. 1998

COULD NOT LOCATE

HISTORIC LNAPL NONE DETECTED IN 2020 INVESTIGATION

SEALED IN PLACE

SEALED

COULD NOT LOCATE

SUBMERGED

NEARBY 8' SECTION OF COLLAPSED PIPE REPAIRED IN 2002

HIGHEST PCB/PAH LEVELS IN SEDIMENT SAMPLES

COULD NOT LOCATE

PRIOR CLEANING AOC NOV. 1998

MH-53-51 PCB DETECTION

SWARF STORAGE NEARBY

CRACKS IN SEWER LINE DETECTED IN JULY 2003 CLEANING & VIDEO

COULD NOT OPEN

CHOKED W/ VEGETATION, POPLAR TREES GROWING THROUGH, UNKOWN DEPTH, FULL W/ SEDIMENT

CRACKS IN SEWER LINE DETECTED IN JULY 2003 CLEANING AND VIDEO

JUNE 2002 MANHOLE CLEANED LATERALS ABANDONDED AND SEALANT APPLIED TO MITIGATE OIL SEEPAGE INTO SOIL

UNKNOWN BOX 24" SQUARE

POSSIBLY DESTROYED IN PUBLIC AREA

SEWER LINES CLEANED & VIDEO INSPECTED PREVIOUS PCBS DETECTED BBC PRE 98 & COMPROMISE

HM-58-60 HISTORICALLY HIGH PCB CONCENTRATION

CRACKS IN SEWER LINE DETECTED IN JULY 2003 CLEANING AND VIDEO AND MODERATE STAINING

Legend

- PCB Detection
- CB-1 Sheen on Water
- MH-53-2 Previously High PCB Detections Prior to AOC 1998 Cleaning

MH-59: 3-4" LNAPL
MH-119: 8" LNAPL
MH-120: 6" LNAPL
MH-121: 3' LNAPL

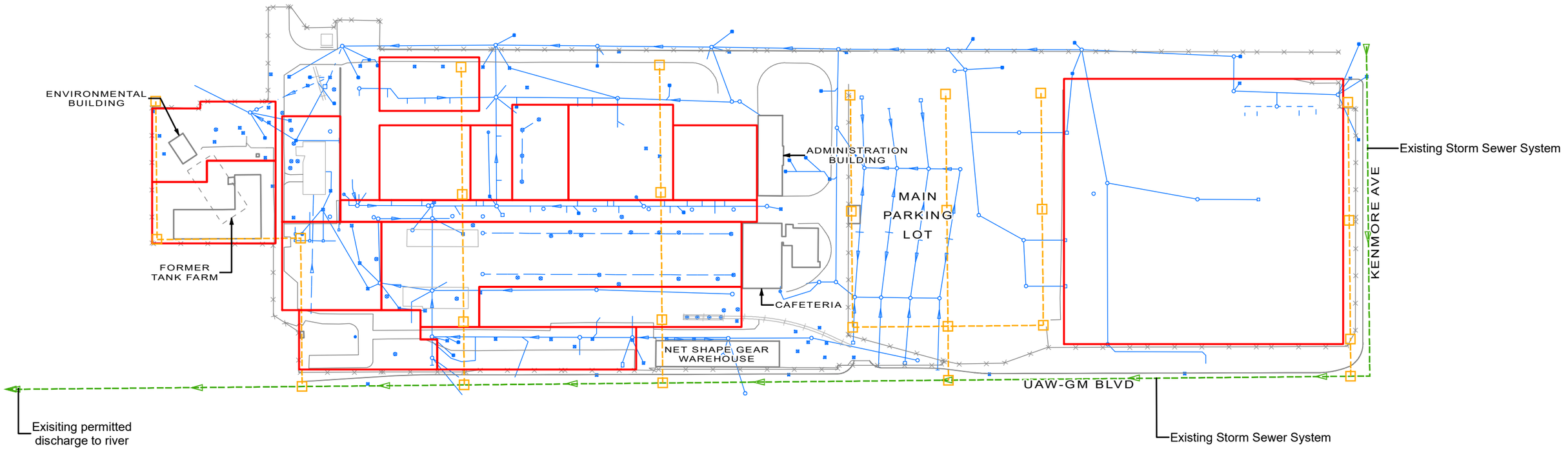
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
HISTORICAL SEWER QUALITATIVE DATA

AECOM

FIGURE 1-4

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Sewer_Network_Qualitative_Rev.mxd 3/26/2021



Legend

- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be cleaned and sealed
- Areas of Concern

Source: Tonawanda Forge Site Feasibility Study Report, URS Corportation, September 2019.

200 0 200 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SURFACE WATER CONTROL

AECOM

FIGURE 1-5

J:\Projects\11176989\GIS\MAPS\04 Surface Water Control.mxd 9/9/2020

N

SB-01-20 SB-02-20 SB-03A-20 SB-03-20 SB-04-20 SB-05-20 SB-06-20 SF-01-20 SF-02-20 SF-03-20 SF-04-20 SB-07-20 SB-08-20 SB-09-20 SB-10-20 SB-11-20 SF-05-20 SF-06-20 SF-07-20 SF-08-20 SF-09-20 SF-10-20 SB-12-20 SB-13-20 TP-05 SB-14-20 SB-15-20 SB-16-20 SB-17-20 SB-18-20 SB-19-20 SB-20-20 SB-21-20 SB-22-20 SB-23-20 SF-11-20 SF-22-20 SF-23-20 SF-24-20 SF-25-20 SF-32-20 TP-07 SF-42-21 SF-43-21 SB-40-20 SF-41-21 SB-41-20 SB-42-20 SF-44-21 SF-45-21 SB-94-21 SF-26-20 SB-95-21 SB-96-21 SF-27-20 SB-97-21 SB-98-21 SF-28-20 SB-58-20 SB-62-20 SB-63-20 SB-59-20 SB-61-20 SB-64-20 SB-66-20 SB-57-20 SB-60-20 SB-65-20 SB-67-20 SF-20-20 SF-21-20 SB-80-21 SF-33-20 SB-24-20 TP-02 SB-81-21 SB-25-20 SB-34-20 SB-35-20 SB-82-21 SB-84-21 SB-83-21 TP-03 TP-04 SB-36-20 SB-37-20 SB-103-21 SF-12-20 SF-18-20 SB-38-20 SB-39-20 SF-39-21 SB-40-20 SF-40-21 TP-06A TP-06D SB-43-20 SB-46-20 SB-47-20 SB-44-20 SF-37-21 SB-45-20 SF-38-21 SB-48-20 SB-49-20 SB-50-20 SB-51-20 SB-53-20 SB-55-20 SB-85-21 SB-54-20 SB-86-21 SB-52-20 SB-87-21 TP-08 SB-88-21 SB-89-21 SB-32-20 SB-33-20 SF-14-20 SF-15-20 SB-78-20 SB-79-20 SF-34-20 SF-35-20 TP-09 SB-56-20 SB-91-21 SB-92-21 SB-90-21 SB-93-21 SF-16-20 SB-69-20 SB-71-20 SB-72-20 SB-73-20 SB-77-20 SB-68-20 SB-70-20 SB-74-20 SB-76-20 SF-31-20 SB-75-20 SB-101-21 SB-102-21 SF-29-20 SB-100-21 SF-30-20 SB-99-21 SB-26-20 SB-27-20 SB-28-20 SB-29-20 SF-13-20 SB-30-20 SB-31-20

Legend

- Surface Soil Location
- Soil Boring Location
- Test Pit Location
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SOIL & TEST PIT SAMPLING LOCATIONS

AECOM

FIGURE 2-1

C:\Users\maxwell.reis\Documents\Tonawanda_ForgeMAPS\Soil_TestPit_Sampling_Locations_2022.mxd 7/11/2022

N

MH-107
SW-2020-2
MH-085
SW-2020-4
BCV-01-2020
MH-103V
MH-113
MH-064
SW-2020-3
MH-53-2
MAIN
PARKING
LOT
MH-305
MH-108
MH-119
MH-121
MH-132
SW-2020-1
SW-2020-5
DI-8-2020
RRV-01-2020
MH-058
MH-059
MH-060
F40EV-20
KENMORE AVE

Legend

- Surface Water Location
- LNAPL Location
- Sewer Water/Sediment Location
- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be Cleaned and Sealed
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SEWER WATER, SEDIMENT, SURFACE WATER, & LNAPL SAMPLING LOCATIONS

AECOM

FIGURE 2-2

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\SW_SE_SW_LO_Sampling_Locations_2020.mxd 3/25/2021

N

AOC-16-MW-05I
AOC-16-MW-E
AOC-16-PZ-B
AOC-16-PZ-A
MW-F
AOC-16-MW-H
AOC-16-PZ-07
AOC-16-PZ-08
AOC-16-PZ-C
AOC-16-PZ-D
AOC-06-MW-06I
AOC-03-PZ-10
AOC-05-MW-04S
AOC-05-PZ-06
AOC-05-MW-04I
AOC-03-PZ-09
AOC-14-MW-21I
AOC-14-MW-21S
AOC-07-MW-I
AOC-08-MW-07I
AOC-08-MW-07S
AOC-08-MW-18S
AOC-08-MW-18I
AOC-06-MW-D
AOC-02-MW-03D
AOC-02-MW-03S
AOC-02-MW-03I
AOC-02-MW-01I
AOC-13-MW-02I
AOC-13-MW-02S
AOC-13-MW-02D
AOC-08-PZ-05
AOC-09-PZ-01
AOC-13-MW-20S
AOC-13-MW-20I
AOC-09-PZ-02
AOC-13-MW-19I
AOC-13-MW-19S
AOC-09-PZ-03
AOC-12-MW-09S
AOC-12-MW-09I
AOC-10-PZ-04
AOC-11-MW-C
AOC-10-MW-08S
AOC-10-MW-08I
AOC-10-MW-16
MAIN PARKING LOT
MW-22S
MW-22I
MW-23I
AOC-01-MW-11S
AOC-01-MW-11I
AOC-01-MW-14S
AOC-01-MW-13S
AOC-01-MW-13I
AOC-01-MW-10I
AOC-01-MW-10S
AOC-01-MW-12S
AOC-01-MW-12I
AOC-01-MW-15S
MW-17I
MW-J
KENMORE AVE

Legend

- Monitoring Well
- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be Cleaned and Sealed
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
2022 MONITORING WELL
SAMPLE LOCATIONS

AECOM

FIGURE 2-3

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\GW_Sampling_Locations_2022.mxd 3/26/2021

AOC-16-MW-E, 598.61
AOC-16-PZ-A, 600.84
AOC-16-PZ-B, 596.45
AOC-16-MW-H, 597.99
AOC-16-PZ-08, 600.04
AOC-16-PZ-07, 600.06
AOC-16-PZ-D, 599.33
AOC-16-PZ-C, 599.35
MW-F, 600.64
AOC-03-PZ-10, 600.42
AOC-05-MW-04S, 599.29
AOC-05-PZ-06, NM
AOC-03-PZ-09, 599.83
AOC-14-MW-21S, 599.68
AOC-07-MW-I, 597.41
AOC-08-MW-07S, 598.28
AOC-06-MW-D, 598.51
AOC-08-MW-18S, 597.25
AOC-08-PZ-05, 597.92
AOC-02-MW-03S, 598.81
AOC-09-PZ-01, 598.30
AOC-13-MW-02S, 599.27
AOC-09-PZ-02, 597.93
AOC-13-MW-19S, 598.64
AOC-13-MW-20S, 599.32
AOC-09-PZ-03, 601.78
AOC-12-MW-09S, 598.59
AOC-10-PZ-04, 599.95
AOC-11-MW-C, 599.78
AOC-10-MW-08S, 599.55
AOC-10-MW-16, 599.31
MAIN PARKING LOT
MW-22S, 600.94
AOC-01-MW-11S, 602.39
AOC-01-MW-14S, 602.44
AOC-01-MW-13S, 603.24
AOC-01-MW-10S, 602.04
AOC-01-MW-12S, 602.21
AOC-01-MW-15S, 603.44
KENMORE AVE

Legend

- Monitoring Well
- Groundwater Flow Direction
- Shallow Groundwater Elevation Contour
- Area of Concern

NOTE:
NM - Not Measured

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SHALLOW GROUNDWATER ELEVATION
JANUARY 2022

AECOM

FIGURE 2-4

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\GW_Elevation_Contours_Shallow_2022.mxd 7/20/2022

N

AOC-16-MW-05I, 598.37

AOC-06-MW-06I, 596.44

AOC-05-MW-04I, 599.26

AOC-08-MW-07I, 594.97

AOC-08-MW-18I, 596.71

AOC-02-MW-03I, 598.62

AOC-14-MW-21I, 597.87

AOC-02-MW-01I, 598.48

AOC-13-MW-02I, 598.63

AOC-13-MW-20I, 599.33

AOC-13-MW-19I, 597.92

AOC-12-MW-09I, 598.18

AOC-10-MW-08I, 596.61

MAIN PARKING LOT

MW-22I, 598.50

MW-23I, 598.44

AOC-01-MW-11I, 598.95

AOC-01-MW-13I, 602.26

AOC-01-MW-10I, 599.87

AOC-01-MW-12I, 600.99

MW-17I, 595.74

KENMORE AVE

Legend

- Monitoring Well
- Groundwater Flow Direction
- Intermediate Groundwater Elevation Contour
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
INTERMEDIATE GROUNDWATER ELEVATION
JANUARY 2022

AECOM

FIGURE 2-5

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\GW_Elevation_Contours_Intermediate_2022.mxd 7/12/2022

N

AOC-07-CC-01 ND
AOC-07-CC-02 ND
AOC-08-CC-04 ND
AOC-08-CC-03 0.13
AOC-08-CC-01 ND
AOC-08-CC-02 0.15
AOC-16-CC-03 0.72
AOC-16-CC-05 3.8
AOC-16-CC-01 ND
AOC-16-CC-02 ND
AOC-16-CC-04 0.24
BC-01-20 5.5
AOC-16-CC-06 4.7
CC-10-20 ND
CC-09-20 0.51
AOC-04-CC-03 2.43
AOC-04-CC-01 2.94
AOC-04-CC-02R 21.3
AOC-03-CC-02 1.33
CC-25-21 0.88
CC-08-20 770
CC-23-21 0.55
CC-24-21 1.38
AOC-03-CC-03 29.3
AOC-02-CC-06 ND
BC-06-20 ND
AOC-02-CC-07 ND
BC-05-20 2.2
CC-03-20 ND
CC-02-20 ND
AOC-13-CC-02 1.24
AOC-13-CC-01 2.24
CC-04-20 0.68
AOC-14-CC-02 5.4
AOC-14-CC-01 5
AOC-14-CC-04 4.9
CC-20-20 1.4
CC-22-20 ND
WC-21-20 59
WC-19-20 21
CC-31-21 5.06
AOC-14-CC-03 1.01
CC-26-21 2.3
AOC-03-CC-01 41
CC-28-21 2.9
AOC-02-CC-05 3.04
AOC-02-CC-04 42.6
AOC-02-CC-03 11.9
CC-32-21 1.21
AOC-02-CC-01 92
CC-33-21 7.5
AOC-02-CC-02 18.6
CC-34-21 ND
CC-29-21 7.8
CC-30-21 1.42
BC-23-20 0.21
CC-27-21 0.82
CC-07-20 14
BC-16-20 1.1
AOC-13-CC-04 12.3
BC-17-20 4.4
BC-18-20 3.2
CC-36-21 1.13
AOC-13-CC-05 9.3
BC-11-20 0.25
AOC-13-CC-03 3.5
BC-12-20 31
BC-13-20 12
BC-14-20 2.3
CC-35-21 1
AOC-13-CC-06 21.7
CC-37-21 0.229
BC-15-20 200
CC-39-21 0.24
CC-38-21 11.2
CC-40-21 0.41
BC-25-20 ND
BC-24-20 ND
AOC-13-CC-08 1.15
AOC-13-CC-09 4.3
AOC-13-CC-07 5.7
CC-41-21 3.17

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

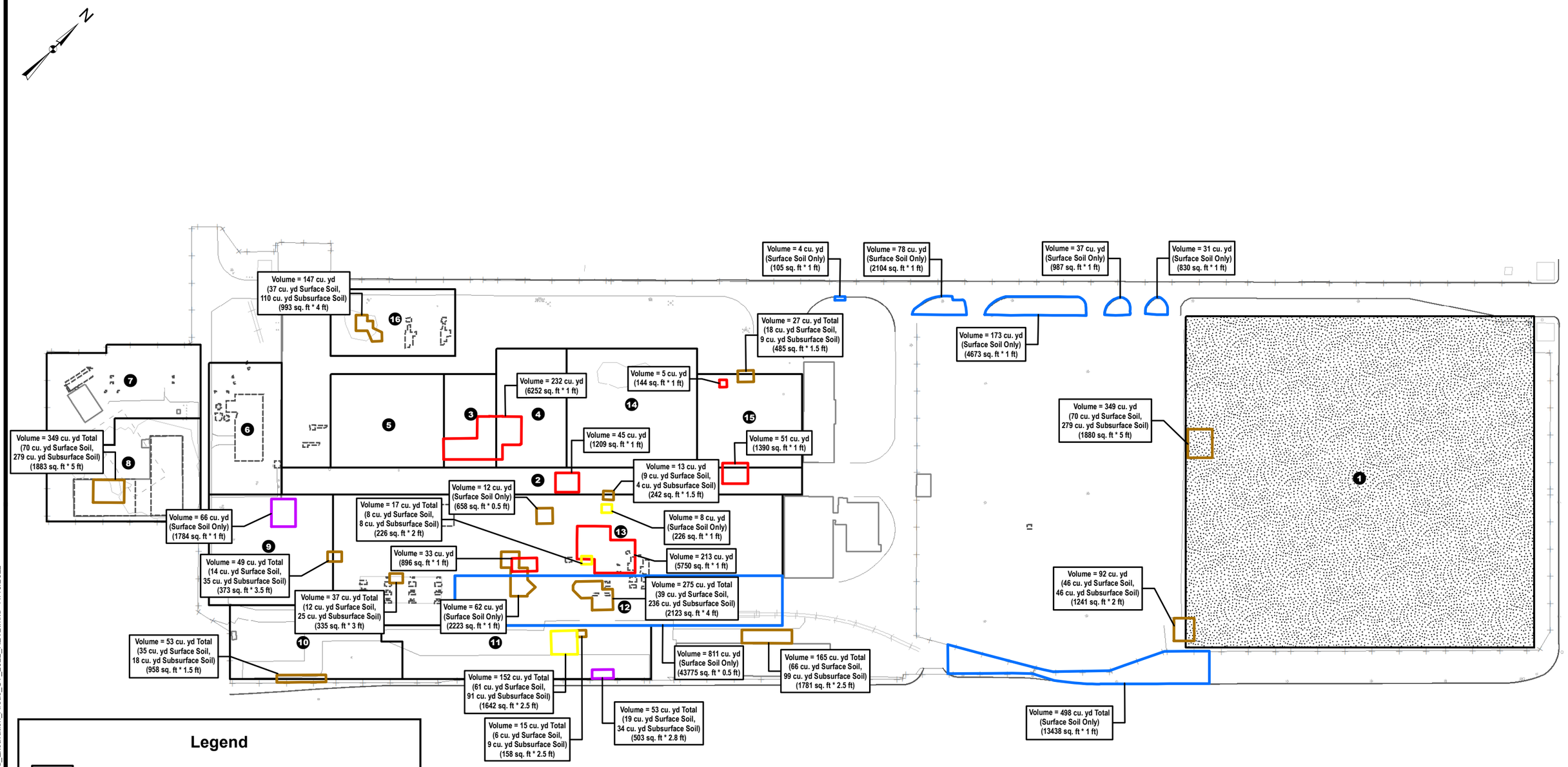
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
IMPERVIOUS SURFACE TOTAL PCBS

AECOM

FIGURE 3-1

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Impervious_Surface_REV_2022.mxd 5/3/2022



Legend

- Area of Concern

Excavation Areas

- Total PCBs > 25 mg/kg (Soil)
- Total PCBs > 50 mg/kg (Soil)
- Total PCBs > 25 mg/kg (Impervious Surface)
- Total SVOCs > 500 mg/kg
- Individual SVOC Compounds Exceed Industrial SCOs
- Proposed Soil Cover

Type	Volume (cu. Yd)
Surface Soil	2,290
Subsurface Soil	1,282
Impervious Surface	579
Total	**4,151**

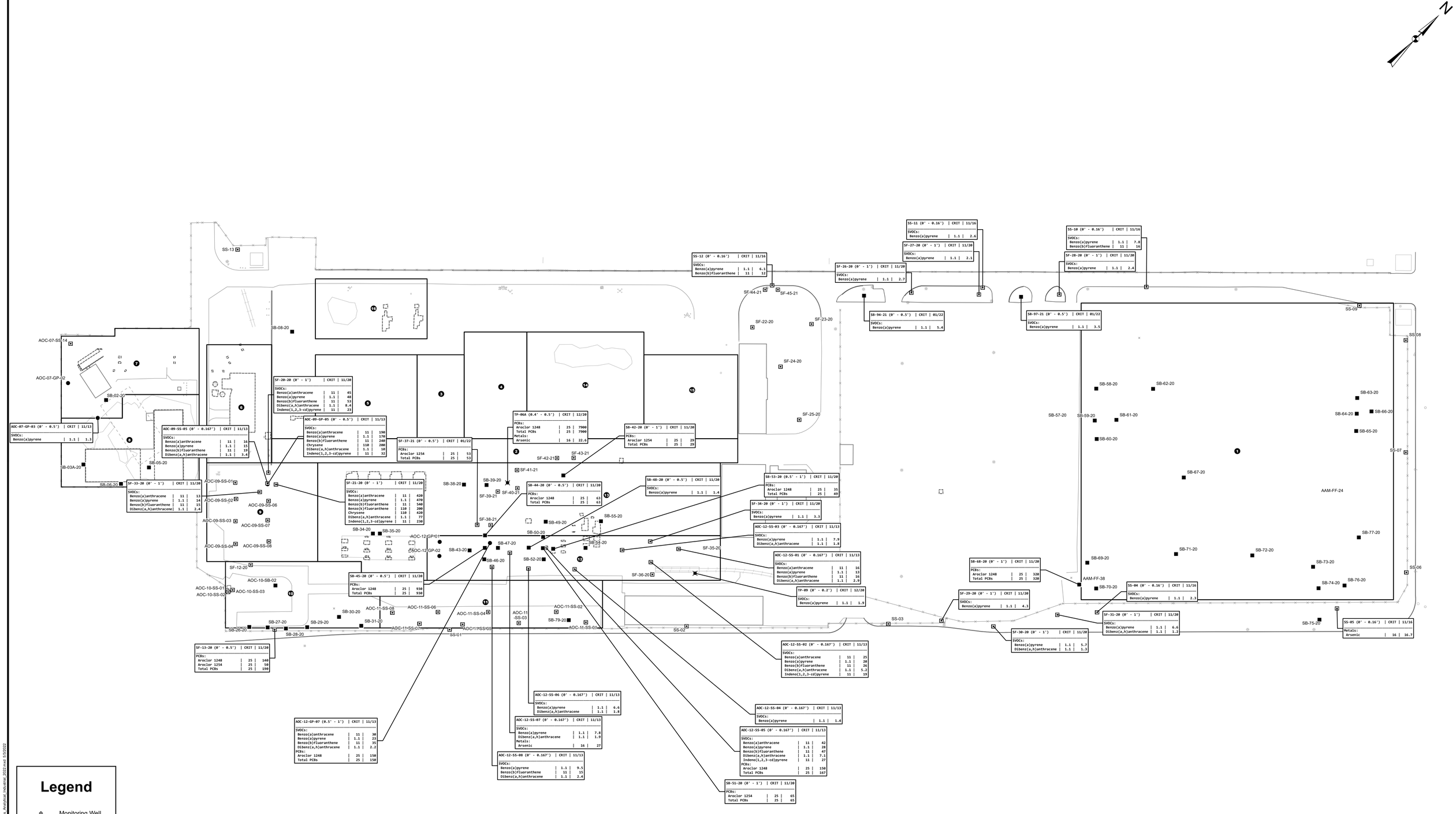
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
PROPOSED EXCAVATION AREAS

AECOM

FIGURE 3-2

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Proposed_Excavation_Areas_CY_2022_REV2.mxd 11/10/2022


N
SS-13
SB-08-20
AOC-07-SS-14
AOC-07-GP-02
SB-02-20
AOC-07-GP-03 (0' - 0.5') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.3
AOC-09-SS-05 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 16
Benzo(a)pyrene | 1.1 | 15
Benzo(b)fluoranthene | 11 | 19
Dibenz(a,h)anthracene | 1.1 | 3.4
SB-03A-20
SB-05-20
SB-06-20
SF-33-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)anthracene | 11 | 13
Benzo(a)pyrene | 1.1 | 14
Benzo(b)fluoranthene | 11 | 15
Dibenz(a,h)anthracene | 1.1 | 2.4
AOC-09-SS-01
AOC-09-SS-02
AOC-09-SS-03
AOC-09-SS-04
AOC-09-SS-06
AOC-09-SS-07
AOC-09-SS-08
SF-20-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)anthracene | 11 | 45
Benzo(a)pyrene | 1.1 | 48
Benzo(b)fluoranthene | 11 | 53
Dibenz(a,h)anthracene | 1.1 | 8.4
Indeno(1,2,3-cd)pyrene | 11 | 23
AOC-09-GP-05 (0' - 0.5') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 190
Benzo(a)pyrene | 1.1 | 170
Benzo(b)fluoranthene | 11 | 240
Chrysene | 110 | 200
Dibenz(a,h)anthracene | 1.1 | 10
Indeno(1,2,3-cd)pyrene | 11 | 32
SF-21-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)anthracene | 11 | 420
Benzo(a)pyrene | 1.1 | 470
Benzo(b)fluoranthene | 11 | 540
Benzo(k)fluoranthene | 110 | 200
Chrysene | 110 | 420
Dibenz(a,h)anthracene | 1.1 | 77
Indeno(1,2,3-cd)pyrene | 11 | 230
SB-34-20
SB-35-20
AOC-12-GP-01
AOC-12-GP-02
SB-43-20
SB-38-20
SB-39-20
SB-39-21
SF-41-21
SF-40-21
SB-38-21
SF-12-20
AOC-10-SB-02
AOC-10-SS-01
AOC-10-SS-02
AOC-10-SS-03
SB-45-20 (0' - 0.5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 930
Total PCBs | 25 | 930
SB-30-20
SB-31-20
AOC-11-SS-08
AOC-11-SS-06
AOC-11-SS-04
AOC-11-SS-05
AOC-11-SS-07
SB-26-20
SB-27-20
SB-28-20
SB-29-20
SS-01
SF-13-20 (0' - 0.5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 140
Aroclor 1254 | 25 | 50
Total PCBs | 25 | 190
SF-37-21 (0' - 0.5') | CRIT | 01/22
PCBs:
Aroclor 1254 | 25 | 53
Total PCBs | 25 | 53
TP-06A (0.4' - 0.5') | CRIT | 12/20
PCBs:
Aroclor 1248 | 25 | 7900
Total PCBs | 25 | 7900
Metals:
Arsenic | 16 | 22.6
SF-42-21
SF-43-21
SB-42-20 (0' - 1') | CRIT | 11/20
PCBs:
Aroclor 1254 | 25 | 29
Total PCBs | 25 | 29
SB-44-20 (0' - 0.5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 63
Total PCBs | 25 | 63
SB-49-20
SB-55-20
SB-54-20
SB-50-20
SB-52-20
SB-47-20
SB-46-20
SF-44-21
SF-45-21
SS-12 (0' - 0.16') | CRIT | 11/16
SVOCs:
Benzo(a)pyrene | 1.1 | 6.1
Benzo(b)fluoranthene | 11 | 12
SF-22-20
SF-23-20
SF-24-20
SF-25-20
SF-26-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 2.7
SB-94-21 (0' - 0.5') | CRIT | 01/22
SVOCs:
Benzo(a)pyrene | 1.1 | 5.4
SS-11 (0' - 0.16') | CRIT | 11/16
SVOCs:
Benzo(a)pyrene | 1.1 | 2.6
SF-27-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 2.1
SB-48-20 (0' - 0.5') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 1.4
SB-53-20 (0.5' - 1') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 35
Total PCBs | 25 | 49
SF-34-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 3.3
AOC-12-SS-03 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 7.9
Dibenz(a,h)anthracene | 1.1 | 1.8
AOC-12-SS-01 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 16
Benzo(a)pyrene | 1.1 | 13
Benzo(b)fluoranthene | 11 | 16
Dibenz(a,h)anthracene | 1.1 | 2.9
TP-09 (0' - 0.2') | CRIT | 12/20
SVOCs:
Benzo(a)pyrene | 1.1 | 1.9
AOC-12-SS-02 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 25
Benzo(a)pyrene | 1.1 | 20
Benzo(b)fluoranthene | 11 | 26
Dibenz(a,h)anthracene | 1.1 | 5.2
Indeno(1,2,3-cd)pyrene | 11 | 19
AOC-12-SS-06 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 6.6
Dibenz(a,h)anthracene | 1.1 | 1.8
AOC-12-SS-07 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 7.8
Dibenz(a,h)anthracene | 1.1 | 1.9
Metals:
Arsenic | 16 | 27
AOC-12-SS-08 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 9.5
Benzo(b)fluoranthene | 11 | 15
Dibenz(a,h)anthracene | 1.1 | 2.4
AOC-12-SS-04 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.4
AOC-12-SS-05 (0' - 0.167') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 42
Benzo(a)pyrene | 1.1 | 28
Benzo(b)fluoranthene | 11 | 47
Dibenz(a,h)anthracene | 1.1 | 7.1
Indeno(1,2,3-cd)pyrene | 11 | 27
PCBs:
Aroclor 1248 | 25 | 150
Total PCBs | 25 | 167
SB-51-20 (0' - 1') | CRIT | 11/20
PCBs:
Aroclor 1254 | 25 | 65
Total PCBs | 25 | 65
AOC-12-GP-07 (0.5' - 1') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 30
Benzo(a)pyrene | 1.1 | 23
Benzo(b)fluoranthene | 11 | 35
Dibenz(a,h)anthracene | 1.1 | 2.2
PCBs:
Aroclor 1248 | 25 | 150
Total PCBs | 25 | 150
SS-10 (0' - 0.16') | CRIT | 11/16
SVOCs:
Benzo(a)pyrene | 1.1 | 7.8
Benzo(b)fluoranthene | 11 | 16
SF-28-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 2.4
SB-97-21 (0' - 0.5') | CRIT | 01/22
SVOCs:
Benzo(a)pyrene | 1.1 | 3.5
SS-09
SS-08
SB-58-20
SB-62-20
SB-63-20
SB-64-20
SB-66-20
SB-57-20
SB-59-20
SB-61-20
SB-65-20
SB-60-20
SS-07
SB-67-20
AAM-FF-24
SB-77-20
SB-71-20
SB-72-20
SB-73-20
SB-69-20
AAM-FF-38
SB-70-20
SB-74-20
SB-76-20
SS-06
SB-75-20
SB-68-20 (0' - 1') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 320
Total PCBs | 25 | 320
SS-04 (0' - 0.16') | CRIT | 11/16
SVOCs:
Benzo(a)pyrene | 1.1 | 2.3
SF-29-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 4.3
SF-31-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 6.4
Dibenz(a,h)anthracene | 1.1 | 1.2
SF-30-20 (0' - 1') | CRIT | 11/20
SVOCs:
Benzo(a)pyrene | 1.1 | 5.7
Dibenz(a,h)anthracene | 1.1 | 1.3
SS-05 (0' - 0.16') | CRIT | 11/16
Metals:
Arsenic | 16 | 16.7
SS-03
SS-02
Legend
Monitoring Well
Geoprobe
Soil Boring
Surface Soil
Test Trench
Area of Concern
Notes:
- Units are in mg/kg
- Results only shown where they exceed Part 375 Industrial Use SCOs
160
0
160 Feet
NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SURFACE SOIL EXCEEDANCES
AECOM
FIGURE 3-3
C:\Users\mawood.nre\Documents\Tonawanda_Forge\MAPS\SurfaceSoils_AnalyticalI_Industrial_2022.mxd 5/3/2022

RR-210A (4' - 8') | CRIT | 03/99
PCBs:
Aroclor 1248 | 25 | 46
Total PCBs | 25 | 46

SS-13
B-01
B-02
B-03
B-04
B-05
B-06
B-07
SF-03-20 (3.2' - 1.7') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 26
Total PCBs | 25 | 36
AOC-16-MW-05I
MW-E
SB-54 (1' - 3') | CRIT | 10/11
PCBs:
Aroclor 1242 | 25 | 290
Total PCBs | 25 | 290
AOC-16-GP-07
SB-51
AOC-16-GP-06
AOC-16-GP-01
AOC-16-GP-04
SF-04-20
SB-11-20
SB-45
SB-09-20
SB-10-20
AOC-16-GP-05
SB-07-20
SB-08-20
AOC-16-GP-02
AOC-16-GP-03
AOC-08-N-TT-11 (4' - 5') | CRIT | 10/16
SVOCs:
Benzo(a)pyrene | 1.1 | 1.5
AOC-07-GP-05 (1' - 1.8') | CRIT | 10/16
SVOCs:
Benzo(a)pyrene | 1.1 | 3
AOC-07-GP-01
AOC-07-GP-04
AOC-07-GP-02
AOC-08-SB-16 (2.8' - 4') | CRIT | 09/16
Metals:
Arsenic | 16 | 20
AOC-06-MW-06I
SB-56
AOC-05-MW-04I
AOC-05-GP-03
AOC-05-SB-01
AOC-06-GP-02
AOC-06-GP-03
AOC-08-MW-07I
AOC-08-MW-07S
AOC-08-S-TT-18
AOC-08-N-TT-47
AOC-08-N-TT-80
AOC-07-GP-03
AOC-08-MW-18I
SF-01-20
MW-D
AOC-06-GP-01
SB-57
AOC-05-GP-01
AOC-08-GP-01 (3' - 3.5') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.5
RR-066A
AOC-08-S-TT-60 (4' - 5') | CRIT | 10/16
SVOCs:
Benzo(a)pyrene | 1.1 | 4.5
AOC-08-S-TT-86 (4' - 5') | CRIT | 10/16
SVOCs:
Benzo(a)pyrene | 1.1 | 3.1
SB-03A-20
SB-04-20
SB-03-20
AOC-08-SB-14
AOC-08-SB-15
SB-05-20
AOC-08-GP-03 (3' - 3.5') | CRIT | 11/13
SVOCs:
Benzo(a)anthracene | 11 | 16
Benzo(a)pyrene | 1.1 | 7.3
Benzo(b)fluoranthene | 11 | 13
SB-06-20
AOC-08-GP-02 (4' - 5') | CRIT | 11/13
PCBs:
Aroclor 1248 | 25 | 54
Total PCBs | 25 | 54
AOC-06-GP-04
AOC-09-GP-05
AOC-09-GP-01
AOC-09-GP-06
AOC-09-GP-09
AOC-09-GP-07
AOC-09-GP-02 (2' - 2.5') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.3
AOC-09-GP-03
AOC-09-GP-04
AOC-09-GP-08
AOC-10-SB-03
AOC-10-SB-08
AOC-10-SB-05
AOC-10-SB-02
AOC-10-SB-09
AOC-10-SB-04 (3' - 4') | CRIT | 12/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.3
AOC-10-SB-11
AOC-10-GP-02
AOC-10-SB-12
AOC-10-SB-10
SB-26-20
SB-27-20
RR-034A
RR-031A
RR-222A
RR-016B
AOC-05-SB-02 (1' - 2') | CRIT | 12/13
Metals:
Arsenic | 16 | 71.4
AOC-05-SB-02 (6' - 7') | CRIT | 12/13
Metals:
Arsenic | 16 | 57.8
AOC-13-GP-01
SB-80-21
SB-24-20
SB-25-20
SB-82-21
SB-83-21
SB-29-20 (1' - 1.5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 53
Total PCBs | 25 | 53
AOC-10-MW-08I (3' - 4') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.5
SB-28-20 (1' - 1.5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 32
Total PCBs | 25 | 32
RR-024A (4' - 8') | CRIT | 03/99
PCBs:
Aroclor 1248 | 25 | 180
Total PCBs | 25 | 180
AOC-10-SB-01 (1' - 1.5') | CRIT | 11/13
PCBs:
Aroclor 1248 | 25 | 48
Total PCBs | 25 | 48
RR-008A
AOC-10-SB-14
AOC-10-SB-15 (4' - 5') | CRIT | 12/13
SVOCs:
Benzo(a)pyrene | 1.1 | 4.9
AOC-11-GP-03
AOC-10-SB-13
SB-30-20
SB-31-20
AOC-10-GP-01
AOC-11-GP-02
SB-78-20
SB-79-20
AOC-11MGP01
TP-03 (1.3' - 1.5') | CRIT | 12/20
PCBs:
Aroclor 1248 | 25 | 650
Total PCBs | 25 | 650
TP-03 (3.3' - 3.5') | CRIT | 12/20
SVOCs:
Benzo(a)pyrene | 1.1 | 8
Dibenz(a,h)anthracene | 1.1 | 1.8
SB-89-21 (1' - 1.5') | 01/22
PCBs:
Aroclor 1248 | 37
Total PCBs | 37
SB-3 (1' - 4') | CRIT | 10/11
PCBs:
Aroclor 1242 | 25 | 40
Total PCBs | 25 | 40
AOC-05-SB-04 (1' - 2') | CRIT | 12/13
Metals:
Arsenic | 16 | 92.3
AOC-05-SB-04 (10' - 10.7') | CRIT | 12/13
Metals:
Arsenic | 16 | 74.3
AOC-05-SB-03 (7' - 8') | CRIT | 12/13
Metals:
Arsenic | 16 | 93.2
SB-36
AOC-03-GP-03
AOC-03-GP-06
AOC-03-GP-07
AOC-03-GP-02
AOC-03-GP-05
AOC-03-GP-01
AOC-03-GP-04
SB-47
SB-12-20
SB-39
AOC-05-GP-04
AOC-05-GP-02
AOC-02-GP-01
AOC-05-GP-05 (3' - 4') | CRIT | 11/13
Metals:
Arsenic | 16 | 83.7
AOC-05-GP-02 (7' - 8') | CRIT | 11/13
Metals:
Arsenic | 16 | 78.8
SB-50
AOC-02-MW-03I
SF-32-20
SB-33
AOC-13-MW-02D
SB-40-20
SB-38-20
SB-39-20
AOC-13-MW-02I
AOC-13-SB-02
AOC-13-SB-04
SB-41
SB-29
SB-42-20
AOC-13-GP-03
SB-23
AOC-13-SB-06
AOC-13-SB-08
SB-21
SB-10
SB-55-20
AOC-13-GP-04
AOC-13-SB-07
SB-30
AOC-13-SB-03
SB-50-20
AOC-13-SB-05
AOC-13-GP-02
SB-35-20
SB-34-20
SB-84-21
SB-36-20
SB-37-20
SB-18-20
SB-103-21
SB-12-GP-02
AOC-12-MW-09I
SB-46-20
AOC-12-GP-05
AOC-12-GP-04
SB-43-20
TP-04
SB-44-20
AOC-13-SB-01
AOC-13-SB-03
AOC-12/GP/12
SB-47-20
SB-48-20
SB-45-20
AOC-12-GP-08
AOC-12-GP-09
SB-52-20
SB-87-21
SB-88-21
SB-32-20
SB-33-20
AOC-11-GP-04
SF-14-20
AOC-12-GP-06
AOC-13-MW-19I (2' - 3') | CRIT | 09/16
PCBs:
Aroclor 1248 | 25 | 54
Total PCBs | 25 | 54
TP-02 (3.3' - 3.5') | CRIT | 12/20
PCBs:
Aroclor 1248 | 25 | 100
Total PCBs | 25 | 100
TP-08 (1.35' - 1.5') | CRIT | 12/20
PCBs:
Aroclor 1248 | 25 | 57
Total PCBs | 25 | 57
TP-08 (2.3' - 2.5') | CRIT | 12/20
PCBs:
Aroclor 1248 | 25 | 80
Total PCBs | 25 | 80
TP-06D (4.7' - 4.8') | CRIT | 12/20
SVOCs:
Benzo(a)anthracene | 11 | 13
Benzo(a)pyrene | 1.1 | 11
Benzo(b)fluoranthene | 11 | 14
Dibenz(a,h)anthracene | 1.1 | 1.7
NORTH SB-02
MW-F
NORTH SB-03
NORTH SB-01
SB-16-20
SB-17-20
SB-18-20
AOC-14-GP-02
AOC-14-GP-03
SF-05-20
SF-07-20
SF-08-20
SF-09-20
SF-06-20
SB-17
SF-10-20
SB-06
SB-19-20
SB-20-20
SB-21-20
SB-22-20
AOC-15-GP-04
SF-11-20
AOC-03-GP-08
AOC-14-GP-04
AOC-14-GP-06
AOC-14-GP-05
SB-12
SB-23-20
SB-02
SB-15-20
AOC-14-MW-21I
SB-14-20
SB-13
SB-08
SB-03
AOC-15-GP-01
SB-19
AOC-14-GP-07
AOC-15-GP-06
SB-27
SB-13-20
AOC-14-GP-08
TP-05
TP-07
AOC-02-MW-01I
MW-A
SB-20
SB-09
AOC-13-GP-03
SB-41-20 (0' - 1.5') | CRIT | 11/20
PCBs:
Aroclor 1254 | 25 | 79
Total PCBs | 25 | 79
SB-04
AOC-13-MW-20I (6' - 6.4') | CRIT | 09/16
SVOCs:
Benzo(a)pyrene | 1.1 | 4.1
AOC-13-GP-04
SB-49-20 (1.5' - 2') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 39
Total PCBs | 25 | 39
SB-53-20 (3' - 4') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 33
Total PCBs | 25 | 33
SF-35-20
MW-B
SB-92-21 (1.5' - 2') | 01/22
PCBs:
Aroclor 1248 | 190
Total PCBs | 190
AOC-12-GP-10
SB-91-21
SB-90-21
SF-16-20 (1' - 1.5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 620
Total PCBs | 25 | 620
SF-15-20
SB-86-21 (2' - 2.5') | 01/22
PCBs:
Aroclor 1248 | 63
Total PCBs | 63
SB-93-21 (1.6' - 2') | 01/22
PCBs:
Aroclor 1248 | 210
Total PCBs | 210
SB-93-21 (2' - 2.5') | 01/22
PCBs:
Aroclor 1248 | 230
Total PCBs | 230
SB-51-20 (3' - 4') | CRIT | 11/20
PCBs:
Aroclor 1254 | 25 | 43
Total PCBs | 25 | 43
RR-267A
AOC-12-GP-11 (0' - 1.6') | CRIT | 10/16
SVOCs:
Benzo(a)pyrene | 1.1 | 6.3
RR-259A
SB-94-21
SB-95-21
SB-96-21
SS-11
SB-97-21
SB-98-21
AOC-15-GP-03 (1' - 1.5') | CRIT | 12/13
PCBs:
Aroclor 1248 | 25 | 260
Total PCBs | 25 | 260
SS-10
AOC-01-MW-11I (6' - 8') | CRIT | 11/13
Metals:
Arsenic | 16 | 43.6
MW-22I
SB-59-20 (4' - 5') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 420
Total PCBs | 25 | 420
SB-60-20 (5' - 6') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 31
Total PCBs | 25 | 31
AAM-FF-14 (2' - 4') | CRIT | 06/00
PCBs:
Total PCBs | 25 | 60.24
SB-57-20
SB-61-20
AOC-01-TP-X03
AOC-01-TP-X09 (2' - 3') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.9
AOC-01-MW-13I
AOC-01-TP-X08
SB-63 (2' - 4') | CRIT | 03/12
Metals:
Arsenic | 16 | 51
AOC-01-TP-X07 (4' - 5') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.2
AAM-FF-45
AAM-FF-20
AOC-01-TP-02
AAM-FF-50 (2' - 4') | CRIT | 06/00
PCBs:
Total PCBs | 25 | 30.7
SB-69-20 (1' - 2') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 38
Total PCBs | 25 | 38
AAM-FF-38 (0' - 2') | CRIT | 06/00
PCBs:
Total PCBs | 25 | 176.2
SB-70-20 (5' - 6') | CRIT | 11/20
PCBs:
Aroclor 1248 | 25 | 28
Total PCBs | 25 | 28
SB-102-21
SS-03
SB-100-21
SB-99-21 (1' - 2') | 01/22
SVOCs:
Benzo(a)pyrene | 1.7
SB-99-21 (2' - 3') | 01/22
SVOCs:
Benzo(a)pyrene | 3.3
RR-251A
SB-101-21 (1' - 2') | 01/22
SVOCs:
Benzo(a)pyrene | 1.3
SB-101-21 (2' - 2.5') | 01/22
SVOCs:
Benzo(a)pyrene | 1.4
Metals:
Arsenic | 17
SB-61 (6' - 8') | CRIT | 03/12
Metals:
Arsenic | 16 | 21.6
SS-04 (0.5' - 1.5') | CRIT | 11/16
SVOCs:
Benzo(a)pyrene | 1.1 | 1.7
RR-233A
MW-17I
SS-05
SB-75-20
AOC-01-MW-12I (3' - 4') | CRIT | 11/13
PCBs:
Aroclor 1248 | 25 | 37
Total PCBs | 25 | 37
MW-23I (0' - 2') | CRIT | 10/16
SVOCs:
Benzo(a)pyrene | 1.1 | 6.2
SB-75 (3' - 4') | CRIT | 03/12
Metals:
Arsenic | 16 | 56.4
SS-09 (0.5' - 2') | CRIT | 11/16
SVOCs:
Benzo(a)pyrene | 1.3 | 1.7
AAM-FF-07
AOC-01-TP-09 (1' - 1.3') | CRIT | 11/13
Metals:
Arsenic | 16 | 32.4
SB-76
AOC-01-TP-11 (3' - 4') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 2.3
PCBs:
Total PCBs | 25 | 33.4
Metals:
Arsenic | 16 | 16.2
Mercury | 5.7 | 6.6
SB-63-20
AAM-FF-18 (2' - 4') | CRIT | 06/00
PCBs:
Total PCBs | 25 | 72.32
SB-64-20
SB-66-20
SB-65-20
SS-07 (0.5' - 2') | CRIT | 11/16
Metals:
Arsenic | 16 | 19
AOC-01-MW-10I
SB-78
AAM-FF-24 (0' - 2') | CRIT | 06/00
PCBs:
Total PCBs | 25 | 26.12
SB-77-20
SB-80 (2' - 4') | CRIT | 03/12
PCBs:
Aroclor 1248 | 25 | 69
Total PCBs | 25 | 69
Metals:
Arsenic | 16 | 49.9
SB-76-20
SB-74-20
AAM-FF-35
AAM-FF-36
SB-65
AAM-FF-03
SB-66
AAM-FF-10
AOC-01-TP-05
AAM-FF-42
SB-58-20
SB-62-20
AOC-01-TP-X02
AOC-01-TP-08 (3' - 3.5') | CRIT | 11/13
Metals:
Arsenic | 16 | 26.7
SB-74
AOC-01-TP-10
AOC-01-TP-08
AAM-FF-17
AOC-01-TP-X01
AOC-01-TP-14
AAM-FF-22
AOC-01-TP-15
SB-67-20
SB-69
SB-72
AOC-01-TP-20 (4' - 5') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 1.5
SB-71-20
AOC-01-TP-X04
SB-72-20
SB-73-20
AOC-01-TP-23
AAM-FF-47
AAM-FF-40
AOC-01-TP-X06 (4' - 5') | CRIT | 11/13
SVOCs:
Benzo(a)pyrene | 1.1 | 3.3
AOC-01-TP-X05
SB-68-20
SB-70
AAM-FF-51

Legend
- Monitoring Well
- Geoprobe
- Soil Boring
- Surface Soil
- Test Trench
- Area of Concern

Notes:
- Units are in mg/kg
- Results only shown where they exceed Part 375 Industrial Use SCOs

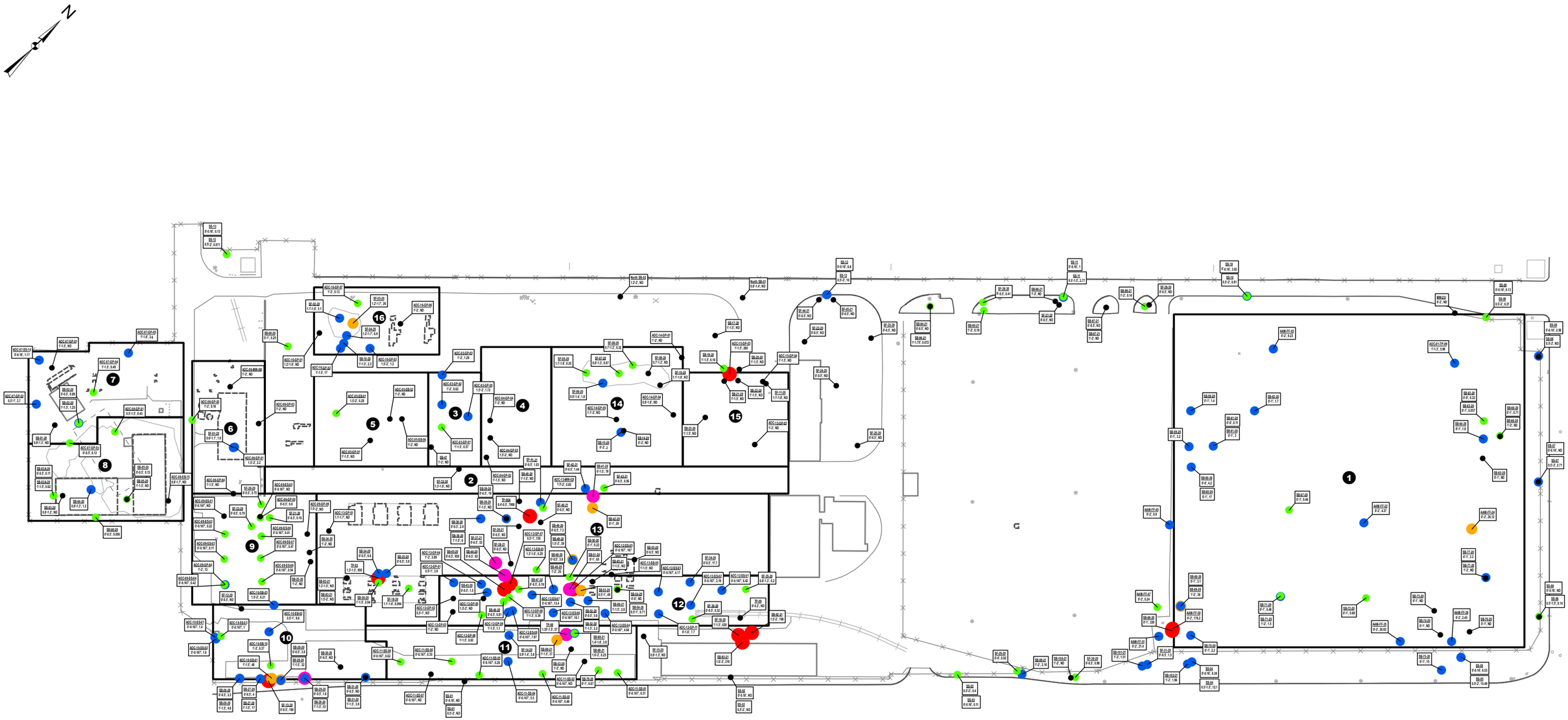
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SUBSURFACE SOIL EXCEEDANCES

AECOM

FIGURE 3-4

C:\Users\moved.nes\Documents\Tonawanda_Forge\MAPS\SubSurfaceSoils_Analytical_Industrial_2022.mxd 8/3/2022



NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 0'-2' BGS

AECOM

FIGURE 3-5

C:\Users\maxwell.reis\Documents\Tonawanda_ForgeMAPS\TOTAL PCBS_Soils_0-2ft_2022.mxd 5/3/2022

RR-210A
0'-4', 46

AOC-16-MW-05I
2'-3', ND

SB-51
1'-3.75', 14

SB-54
1'-3', 290

SB-09-20
0.6'-4', ND

SB-10-20
2'-2.5', 0.32

SB-07-20
0'-4', ND

AOC-16-GP-05
2'-3', ND

SB-53
1'-4', 40

AOC-05-MW-04I
2'-3', ND

AOC-03-GP-06
2'-2.5', 15

AOC-14-GP-03
2'-2.9', ND

North SB-03
1.8'-2.8', ND

AOC-14-GP-02
3'-4', ND

SB-16-20
2'-4', ND

SB-17-20
2'-2.5', ND

SB-18-20
0'-3.7', 4.6

SB-19-20
2'-2.5', ND

SB-20-20
1.5'-2.5', ND

SB-21-20
2'-2.5', ND

SB-23-20
2'-2.5', ND

SB-22-20
2'-2.5', ND

AOC-06-MW-06I
2'-3', ND

AOC-08-GP-01
3'-3.5', 0.49

SB-08-20
2'-3', ND

SB-02-20
3'-4', 8.5

AOC-08-SB-16
2.8'-4', ND

AOC-06-GP-01
3'-3.5', ND

AOC-09-GP-05
2.5'-3', ND

SB-01-20
1.8'-2.3', ND

RR-066A
0'-4', 1.8

AOC-08-GP-03
3'-3.5', 2.99

SB-56
2'-4', ND

AOC-05-GP-02
3'-4', ND

SB-81-21
1.7'-2.1', ND

SB-80-21
3'-3.7', ND

SB-81-21
2.1'-2.7', ND

SB-82-21
3.4'-4', 0.112

SB-39
1'-3.5', 6.8

AOC-03-GP-04
1.8'-2.3', 0.18

AOC-03-GP-07
3'-3.5', 0.45

TP-05
2.4'-3', 5.1

AOC-04-GP-01
2'-3', ND

AOC-14-GP-06
3'-4', ND

AOC-14-GP-08
3'-4', ND

AOC-14-MW-21I
1.5'-3', ND

AOC-15-GP-06
2'-2.5', ND

AOC-02-MW-01I
1.3'-2.3', 0.076

SB-20
1'-4', 0.65

AOC-14-GP-07
2.2'-3.2', ND

TP-07
2.8'-3.3', 0.19

AOC-15-GP-01
3'-3.5', ND

SB-41-20
3'-4', ND

AOC-02-MW-03I
3'-4', 3.64

SB-38-20
3'-4', ND

AOC-02-GP-01
2'-3', 0.15

AOC-13-SB-04
2.3'-2.9', 0.72

AOC-13-SB-02
1.7'-2.2', ND

AOC-13-SB-06
2'-3', ND

SB-42-20
2.5'-3.5', 0.29

SB-85-21
2'-3', ND

SB-85-21
3'-4', ND

SB-83-21
3.5'-4', 0.091

SB-34-20
3'-4', 17

AOC-13-MW-19I
2'-3', 54

SB-43-20
2'-3', ND

SB-45-20
2'-3', 0.98

SB-48-20
2'-3', 19

SB-51-20
3'-4', 43

SB-53-20
3'-4', 33

SB-86-21
2'-2.5', 63

SB-52-20
3'-4', 1.6

SB-86-21
2.5'-4', 0.27

SB-90-21
2.7'-3.1', 0.98

SB-90-21
3.1'-3.6', 5.7

SB-90-21
3.6'-4', 0.99

SB-91-21
3.5'-4', 0.74

AOC-12-GP-10
1.8'-2.4', ND

SB-92-21
2.5'-3', 1.2

SB-92-21
3.5'-4', 4.8

SB-93-21
2'-2.5', 230

SB-93-21
3.3'-3.6', 8.9

SB-93-21
3.6'-4', 3.8

SB-32-20
2.5'-3.5', ND

AOC-11-GP-01
2.1'-2.8', 1.98

SB-78-20
1.5'-2.5', ND

RR-267A
0'-4', 0.37

RR-259A
0'-4', 1.03

SB-95-21
2'-2.5', 0.035

SB-96-21
2'-3', 0.16

SB-97-21
2'-3', ND

MW-22I
0.5'-2.5', ND

SB-98-21
2'-2.5', 0.097

SB-99-21
2'-3', 13

SB-100-21
2'-3', ND

SB-101-21
2'-2.5', 3.99

RR-251A
0'-4', 0.4

SB-102-21
2'-3', 0.82

AAM-FF-10
2'-4', ND

SB-58-20
2'-3', 5.7

AAM-FF-14
2'-4', 60.24

SB-59-20
3'-4', 12

SB-57-20
0'-4', ND

AOC-01-MW-13I
3'-4', 1.8

AOC-01-TP-X08
3'-3.5', 1.4

SB-69-20
2'-3', 25

SB-69-20
3'-4', 8.1

SB-68-20
2'-3', 3.7

SB-68-20
3'-4', ND

AAM-FF-40
2'-4', 2.34

AAM-FF-50
2'-4', 30.7

SB-70-20
3'-4', 12

AOC-01-TP-05
3'-4', ND

SB-62-20
2'-3', 7.7

SB-61-20
2'-3', 1.4

AOC-01-TP-X02
2.5'-3', 3.1

AOC-01-TP-X03
3'-3.5', 0.055

AOC-01-TP-X09
2'-3', 3.86

SB-63
2'-4', 0.59

SB-67-20
3'-4', ND

AOC-01-TP-14
3'-4', 14

AOC-01-TP-02
3'-4', 1.55

SB-71-20
2'-3', 4.8

SB-72-20
2'-3', 22

AOC-01-MW-12I
3'-4', 37

SB-66
2'-4', 0.41

AOC-01-MW-11I
2'-4', ND

SB-75
2'-4', 2.5

AAM-FF-07
2'-4', 4.47

SB-76
2'-4', 3.69

AOC-01-TP-10
3'-4', 4.7

SB-74
2'-4', 20

AOC-01-TP-09
3'-3.5', 8.63

AAM-FF-18
2'-4', 72.32

SB-64-20
2'-3', 0.31

AOC-01-TP-11
3'-4', 33.4

SB-65-20
2'-3', ND

SB-78
2'-4', 0.97

AOC-01-MW-10I
2'-3', 1.73

AOC-01-TP-15
3'-4', 4.4

SB-73-20
2'-3', 3.6

SB-73-20
3'-4', 18

SB-77-20
2'-3', 0.3

SB-76-20
2'-3', 4.3

SB-80
2'-4', 69

SB-74-20
2'-3', 11

SB-75-20
3'-4', 0.06

RR-233A
0'-4', 0.037

SB-03A-20
2'-3', 0.71

SB-05-20
2'-3', 8

AOC-08-SB-15
2'-4', 0.19

AOC-09-GP-01
2'-3', 0.82

AOC-09-GP-07
2.6'-3.6', ND

AOC-08-SB-14
3'-3.6', 0.27

SB-04-20
1.8'-2.3', 1.87

AOC-09-GP-02
2'-2.5', 3.63

SB-24-20
3'-4', ND

SB-03-20
2'-3', 3

SB-03-20
3'-4', 1.28

SB-04-20
2.8'-3.8', 0.5

AOC-09-GP-03
1.5'-2.5', 3.76

AOC-09-GP-03
2.5'-3.5', 10.94

SB-25-20
3'-4', ND

AOC-09-GP-04
3'-4', 3.42

TP-02
3.3'-3.5', 100

AOC-08-GP-02
2.5'-3', 2.3

SB-06-20
2'-3', 0.9

AOC-09-GP-08
2'-2.5', 6.09

AOC-10-SB-05
2'-3', 2.5

AOC-10-SB-09
2'-3', 0.23

AOC-10-SB-04
3'-4', 3.1

AOC-10-SB-06
2'-4', 0.82

AOC-10-SB-09
2'-3', ND

AOC-10-SB-02
2.5'-3', ND

AOC-10-SB-07
2'-3', ND

AOC-10-SB-12
2'-3', ND

RR-034A
0'-4', 9

RR-031A
0'-4', 3.2

RR-222A
0'-4', 24

RR-024A
0'-4', 180

SB-26-20
3'-4', 0.071

AOC-10-SB-01
2'-2.5', ND

AOC-10-GP-02
2.5'-3.1', ND

AOC-10-MW-08I
3'-4', 0.21

RR-008A
0'-4', 0.178

SB-29-20
3'-4', 0.11

SB-30-20
2'-4', ND

AOC-10-GP-01
2.4'-3.4', ND

TP-03
3.3'-3.5', 1.52

SB-37-20
0.6'-3', 1.4

SB-84-21
3.5'-4', 3.3

SB-103-21
3.5'-4', 0.083

AOC-12-MW-09I
2'-3', ND

AOC-11-GP-03
2'-3.6', 3.9

AOC-11-GP-02
2.4'-3', 0.77

AOC-10-SB-13
2'-4', 0.28

SB-46-20
2'-3', 0.53

SB-47-20
2'-3', ND

TP-08
2.3'-2.5', 80

SB-89-21
3'-4', 0.4

SB-33-20
3'-4', ND

SB-22
1'-4', 40

SB-39
1'-3.5', 6.8

SB-11
1'-3', 0.11

SB-12
1'-3', 0.11

SB-13
1'-3', 0.11

SB-14
1'-3', 0.11

SB-15
1'-3', 0.11

SB-16
1'-3', 0.11

SB-17
1'-3', 0.11

SB-18
1'-3', 0.11

SB-19
1'-3', 0.11

SB-20
1'-3', 0.11

SB-21
1'-3', 0.11

SB-23
1'-3', 0.11

SB-24
1'-3', 0.11

SB-25
1'-3', 0.11

SB-26
1'-3', 0.11

SB-27
1'-3', 0.11

SB-28
1'-3', 0.11

SB-29
1'-3', 0.11

SB-30
1'-3', 0.11

SB-31
1'-3', 0.11

SB-32
1'-3', 0.11

SB-33
1'-3', 0.11

SB-34
1'-3', 0.11

SB-35
1'-3', 0.11

SB-36
1'-3', 0.11

SB-37
1'-3', 0.11

SB-38
1'-3', 0.11

SB-39
1'-3', 0.11

SB-40
1'-3', 0.11

SB-41
1'-3', 0.11

SB-42
1'-3', 0.11

SB-43
1'-3', 0.11

SB-44
1'-3', 0.11

SB-45
1'-3', 0.11

SB-46
1'-3', 0.11

SB-47
1'-3', 0.11

SB-48
1'-3', 0.11

SB-49
1'-3', 0.11

SB-50
1'-3', 0.11

SB-51
1'-3', 0.11

SB-52
1'-3', 0.11

SB-53
1'-3', 0.11

SB-54
1'-3', 0.11

SB-55
1'-3', 0.11

SB-56
1'-3', 0.11

SB-57
1'-3', 0.11

SB-58
1'-3', 0.11

SB-59
1'-3', 0.11

SB-60
1'-3', 0.11

SB-61
1'-3', 0.11

SB-62
1'-3', 0.11

SB-63
1'-3', 0.11

SB-64
1'-3', 0.11

SB-65
1'-3', 0.11

SB-66
1'-3', 0.11

SB-67
1'-3', 0.11

SB-68
1'-3', 0.11

SB-69
1'-3', 0.11

SB-70
1'-3', 0.11

SB-71
1'-3', 0.11

SB-72
1'-3', 0.11

SB-73
1'-3', 0.11

SB-74
1'-3', 0.11

SB-75
1'-3', 0.11

SB-76
1'-3', 0.11

SB-77
1'-3', 0.11

SB-78
1'-3', 0.11

SB-79
1'-3', 0.11

SB-80
1'-3', 0.11

SB-81
1'-3', 0.11

SB-82
1'-3', 0.11

SB-83
1'-3', 0.11

SB-84
1'-3', 0.11

SB-85
1'-3', 0.11

SB-86
1'-3', 0.11

SB-87
1'-3', 0.11

SB-88
1'-3', 0.11

SB-89
1'-3', 0.11

SB-90
1'-3', 0.11

SB-91
1'-3', 0.11

SB-92
1'-3', 0.11

SB-93
1'-3', 0.11

SB-94
1'-3', 0.11

SB-95
1'-3', 0.11

SB-96
1'-3', 0.11

SB-97
1'-3', 0.11

SB-98
1'-3', 0.11

SB-99
1'-3', 0.11

SB-100
1'-3', 0.11

SB-101
1'-3', 0.11

SB-102
1'-3', 0.11

SB-103
1'-3', 0.11

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 2'-4' BGS

AECOM

FIGURE 3-6

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_2-4ft_2022.mxd 7/11/2022

N

AOC-16-MW-05I 5'-6', ND
SB-10-20 4'-5', ND
SB-11-20 1'-5', 0.24
AOC-07-GP-01 5'-6', ND
AOC-07-GP-04 5.5'-6', ND
SB-01-20 3.8'-4.8', ND
SB-02-20 5'-6', 12
AOC-08-N-TT-11 4'-5', 1.42
AOC-08-S-TT-18 4'-4.5', 17
AOC-08-N-TT-47 4'-5', ND
AOC-08-N-TT-80 4'-5', 0.22
AOC-08-S-TT-60 4'-5', 1.02
AOC-08-S-TT-86 4'-5', 2.11
AOC-09-GP-01 5'-5.5', 0.4
SB-03A-20 4'-5', ND
AOC-08-GP-02 4'-5', 54
SB-04-20 4.8'-5.8', 1.4
SB-06-20 4'-5', ND
SB-05-20 4'-5', ND
AOC-09-GP-06 4'-5', 2.58
SB-81-21 5.5'-6', ND
AOC-09-GP-08 4'-4.5', ND
AOC-09-GP-07 4'-4.5', ND
SB-36-20 5'-6', 5.7
SB-34-20 4'-5', 0.93
AOC-10-MW-08I 5'-6', ND
AOC-10-SB-08 5'-6', 0.075
SB-28-20 4'-5', 2
SB-27-20 3.5'-4.5', 0.095
AOC-10-SB-15 4'-5', 11
SB-31-20 4'-5', ND
AOC-10-SB-14 4'-6', 1
AOC-05-GP-03 4'-4.5', ND
AOC-05-MW-04I 5'-6', ND
AOC-05-GP-04 4'-5', ND
AOC-03-GP-04 5'-5.6', ND
AOC-02-MW-03I 5'-6', ND
AOC-02-GP-01 4'-5', ND
SB-39-20 5'-5.5', ND
AOC-13-SB-01 4'-4.5', 0.5
AOC-13-SB-01 5'-6', ND
TP-04 4'-4.3', ND
AOC-12-MW-09I 4'-5', ND
SB-37-20 3'-5', 1.4
SB-30-20 5'-6', ND
MW-C 3'-5', ND
SB-43-20 4'-5', 0.11
SB-46-20 4'-5', ND
SB-41 3.5'-6', ND
AOC-03-GP-07 5'-6', ND
AOC-04-GP-04 4'-5', ND
AOC-04-GP-02 4'-5', ND
SB-33 4'-6', ND
SB-40-20 0'-6', ND
SB-40-20 5'-6', 4.7
SB-44-20 4'-5', 0.38
SB-45-20 4'-5', 6
SB-32-20 4.5'-5.5', 0.25
SB-78-20 4'-5', ND
SB-15-20 4'-5', 0.073
SB-14-20 4'-5', ND
AOC-13-GP-03 4'-5', ND
TP-06D 4.7'-4.8', 8
AOC-12-GP-12 4'-5', ND
SB-50-20 3.5'-4.5', ND
SB-51-20 4'-5', 2.5
SB-47-20 4'-4.8', ND
SB-86-21 4'-5.3', 0.31
SB-87-21 4'-4.3', 0.13
SB-89-21 4'-5', 1.1
SB-87-21 4.3'-5', ND
SB-79-20 3.5'-4.5', ND
SB-16-20 4'-5', ND
SB-19-20 4'-5', ND
SB-17-20 4'-5', ND
SB-20-20 4'-4.5', ND
AOC-15-GP-04 4'-5', ND
SB-21-20 4'-5', ND
SB-22-20 4'-4.5', ND
SB-23-20 4'-5', ND
SB-13 4'-6', ND
SB-09 4'-6', ND
AOC-15-GP-01 4'-5', ND
SB-04 4'-6', ND
SB-55-20 5'-6', ND
AOC-13-SB-07 5'-5.5', ND
SB-53-20 5'-6', 20
SB-90-21 4'-4.3', ND
SB-91-21 4'-4.5', 0.2
SB-56-20 1'-5', ND
SB-56-20 5'-6', ND

AAM-FF-42 4'-6', ND
SB-58-20 4'-5', 0.38
SB-62-20 4'-5', 0.85
SB-57-20 4'-5', ND
SB-59-20 4'-5', 420
AOC-01-TP-X01 4'-4.5', 18.3
SB-61-20 5'-6', 0.15
SB-60-20 5'-6', 31
AAM-FF-17 4'-6', 6.77
SB-63-20 4'-5', 0.33
SB-64-20 4'-5', ND
SB-65-20 4'-5', ND
SB-67-20 4'-5', 1.1
AAM-FF-20 4'-6', 0.05
AOC-01-TP-X07 4'-5', 5.8
SB-72 4'-6', 0.79
AOC-01-TP-20 4'-5', 7.31
SB-69 4'-6', 3.7
SB-70-20 5'-6', 28
AOC-01-TP-X04 4.8'-5', ND
SB-72-20 4'-5', 0.052
AOC-01-TP-X06 4'-5', 2.35
AOC-01-TP-X05 4'-5', 7.9
SB-70 4'-6', 1.34

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

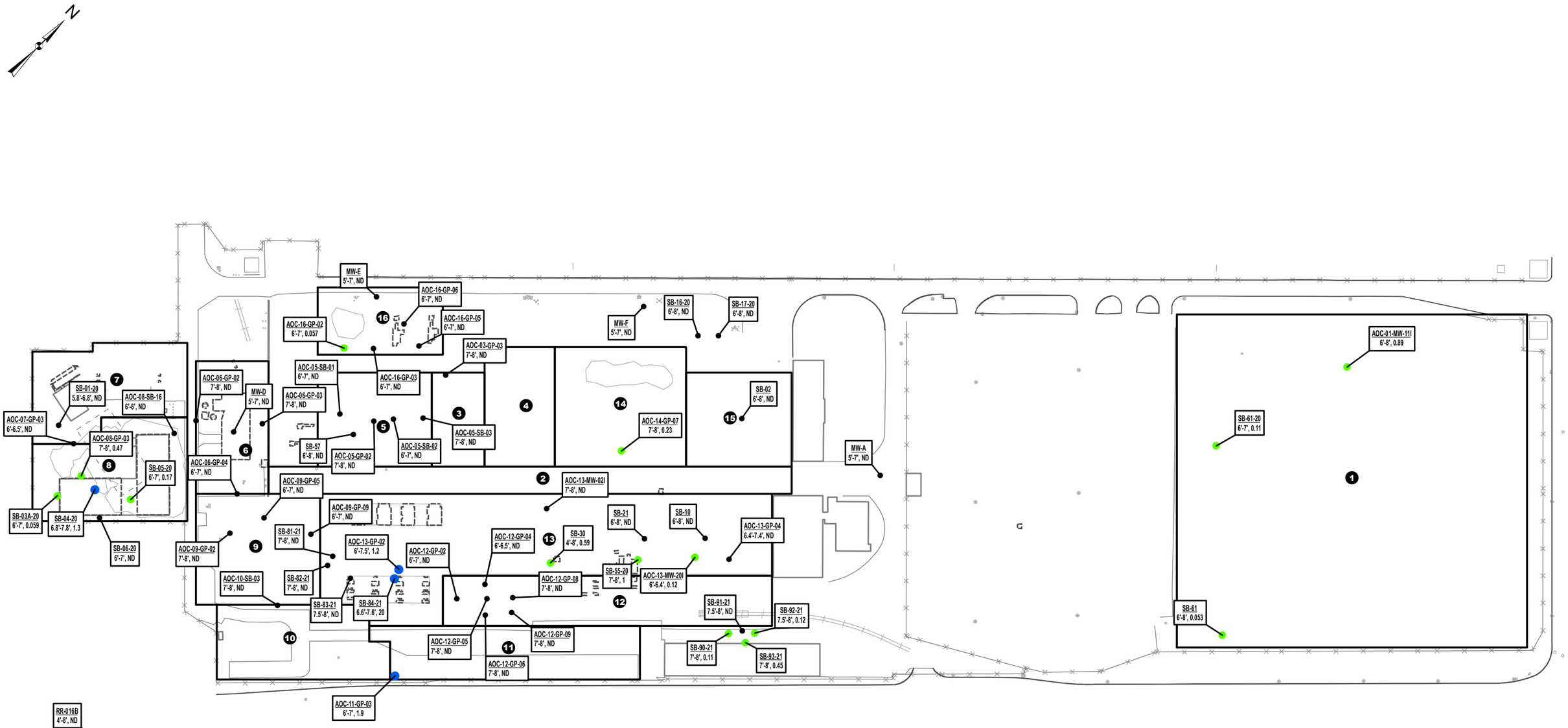
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 4'-6' BGS

AECOM

FIGURE 3-7

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_4-6ft_2022.mxd 5/4/2022



Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

NOTE: RR Locations were collected by Conestoga-Rovers & Associates as part of the Historical and Active Railroad Drainage Line Subsurface Investigation, November 2000. Offsite locations are based on historical railroad locations that are no longer extant.

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 6'-8' BGS

AECOM

FIGURE 3-8

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL_PCBS_Soils_6-8ft_2022.mxd 5/4/2022

N

AOC-16-GP-04
8'-9', 1.4

SB-36
8'-10', ND

AOC-07-GP-02
8'-8.5', 0.26

AOC-08-MW-07S
8'-10', 1.5

AOC-03-GP-02
9'-10', ND

AOC-03-GP-05
8'-9', ND

SB-26
8'-10', 0.18

SB-12
8'-10', 0.076

SB-06
8'-10', 0.21

SB-08
8'-10', ND

SB-03
8'-10', 0.28

AOC-03-GP-01
9'-10', ND

SB-13-20
8'-10', ND

AOC-14-GP-05
7.8'-8.2', 0.16

AOC-14-MW-21I
8.2'-8.4', 0.29

SB-12-20
8.5'-9.5', ND

AOC-14-MW-21I
9'-10', 0.56

AOC-13-SB-09
8'-9', ND

SB-29
8'-10', ND

SB-35-20
8'-9', 13

SB-84-21
9'-9.5', 0.6

SB-44-20
8'-9', 0.61

AOC-13-SB-05
8.5'-9.5', ND

AOC-13-SB-07
8'-9', ND

AOC-10-SB-04
8'-10', ND

AOC-11-GP-04
8'-9', ND

AOC-10-SB-14
8'-10', 0.18

SB-65
8'-10', ND

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

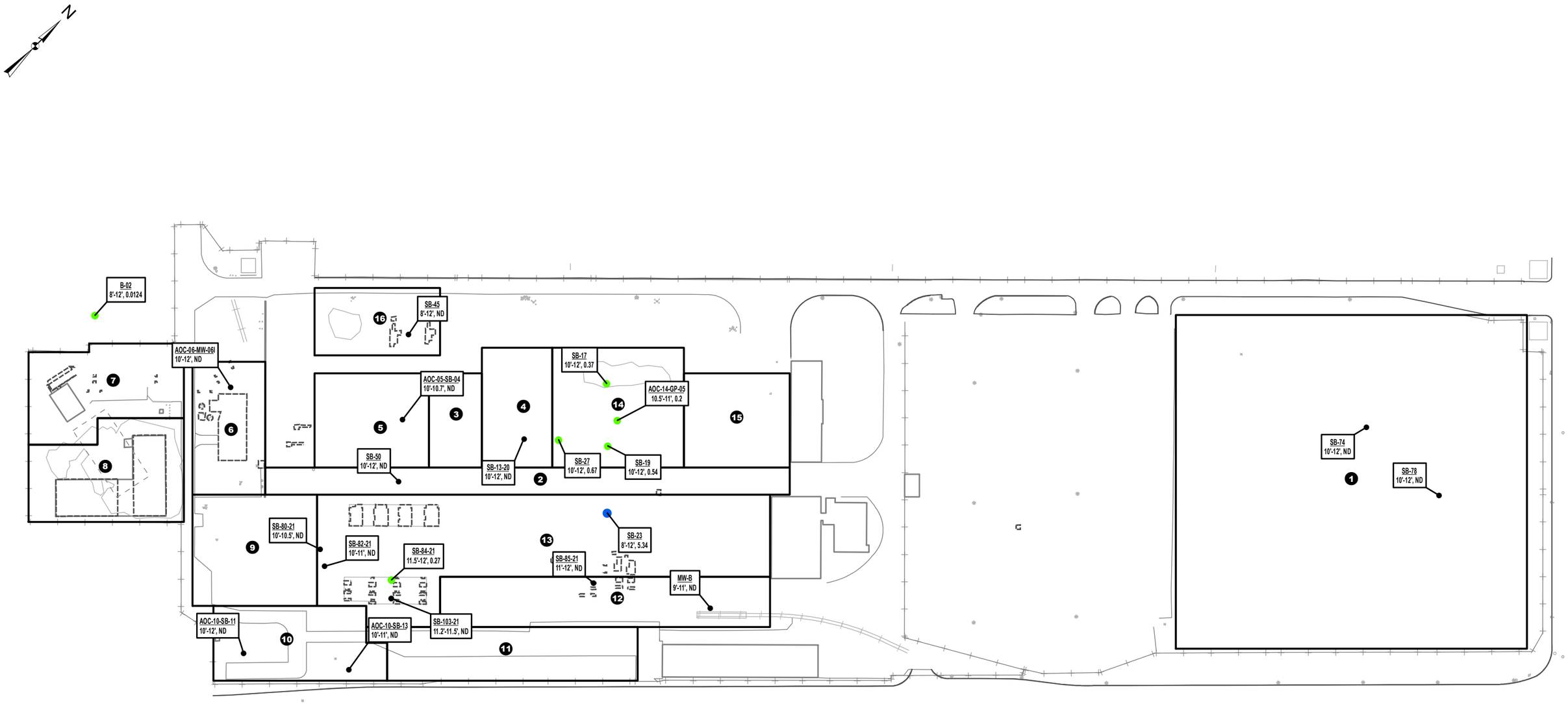
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 8'-10' BGS

AECOM

FIGURE 3-9

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_8-10ft_2022.mxd 5/4/2022



Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

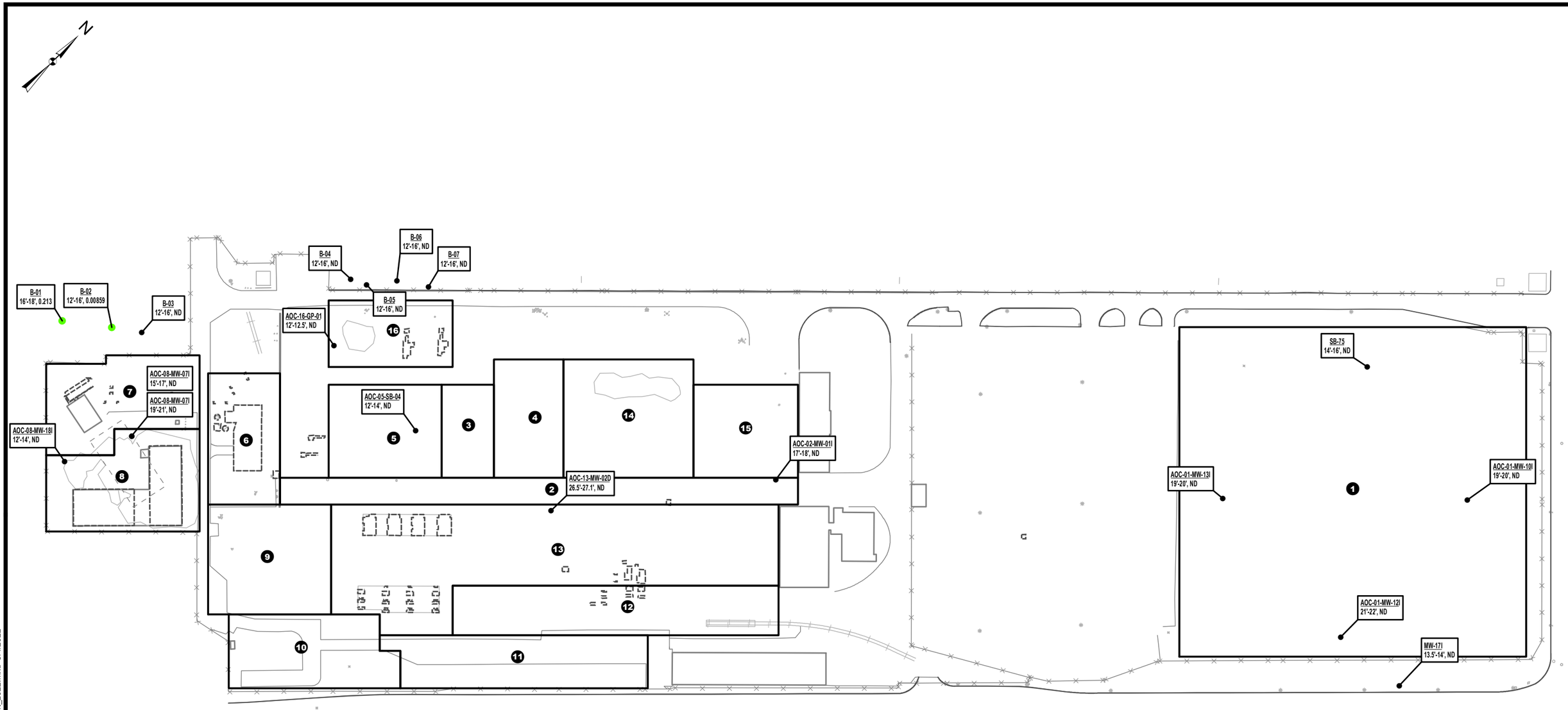
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 10'-12' BGS

AECOM

FIGURE 2-10

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_10-12ft_2022.mxd 5/4/2022



Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- Area of Concern

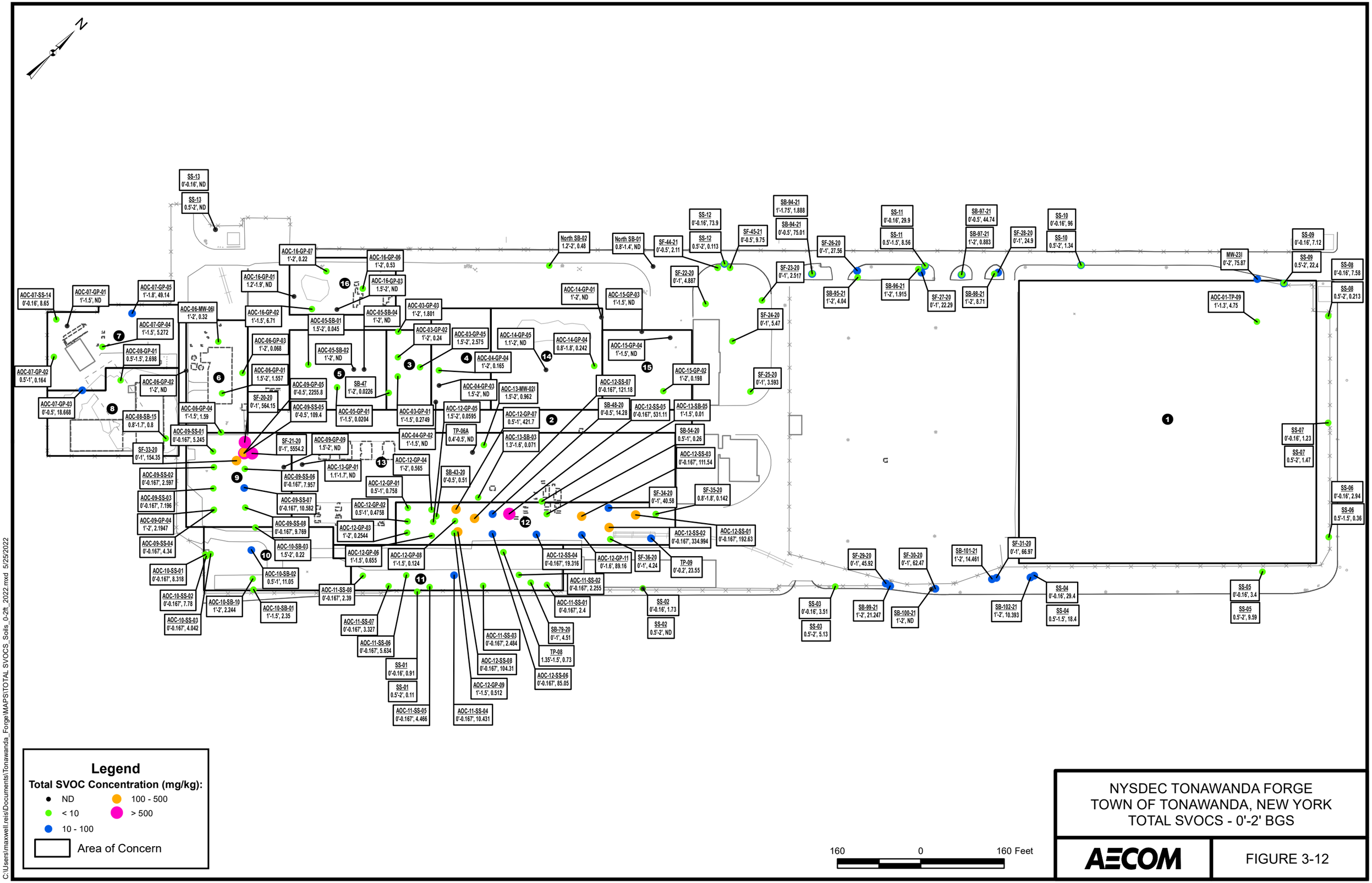
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 12'-28' BGS

AECOM

FIGURE 3-11

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_12-28ft_2022.mxd 5/4/2022


SS-13
0'-0.16', ND
SS-13
0.5'-2', ND
AOC-07-SS-14
0'-0.16', 8.65
AOC-07-GP-01
1'-1.5', ND
AOC-07-GP-05
1'-1.8', 49.14
AOC-07-GP-04
1'-1.5', 5.272
AOC-07-GP-02
0.5'-1', 0.164
AOC-07-GP-03
0'-0.5', 18.668
AOC-08-GP-01
0.5'-1.5', 2.698
AOC-06-GP-02
1'-2', ND
AOC-08-SB-15
0.8'-1.7', 0.8
SF-33-20
0'-1', 154.35
AOC-09-SS-02
0'-0.167', 2.597
AOC-09-SS-03
0'-0.167', 7.196
AOC-09-GP-04
1'-2', 2.1947
AOC-09-SS-04
0'-0.167', 4.34
AOC-10-SS-01
0'-0.167', 8.318
AOC-10-SS-02
0'-0.167', 7.78
AOC-10-SS-03
0'-0.167', 4.042
AOC-06-MW-06I
1'-2', 0.32
AOC-06-GP-03
1'-2', 0.068
AOC-06-GP-01
1.5'-2', 1.557
AOC-06-GP-04
1'-1.5', 1.59
AOC-09-SS-01
0'-0.167', 5.245
SF-20-20
0'-1', 564.15
AOC-09-SS-05
0'-0.5', 109.4
SF-21-20
0'-1', 5554.2
AOC-09-GP-09
1.5'-2', ND
AOC-09-SS-06
0'-0.167', 7.957
AOC-09-SS-07
0'-0.167', 10.582
AOC-09-SS-08
0'-0.167', 9.769
AOC-10-SB-03
1.5'-2', 0.22
AOC-10-SB-02
0.5'-1', 11.05
AOC-10-SB-10
1'-2', 2.244
AOC-10-SB-01
1'-1.5', 2.35
AOC-16-GP-07
1'-2', 0.22
AOC-16-GP-01
1.2'-1.9', ND
AOC-16-GP-02
1'-1.5', 6.71
AOC-05-SB-01
1.5'-2', 0.045
AOC-05-SB-02
1'-2', ND
SB-47
1'-2', 0.0226
AOC-05-GP-01
1'-1.5', 0.0204
AOC-16-GP-06
1'-2', 0.53
AOC-16-GP-03
1.5'-2', ND
AOC-05-SB-04
1'-2', ND
AOC-03-GP-03
1'-2', 1.801
AOC-03-GP-02
1'-2', 0.24
AOC-03-GP-05
1.5'-2', 2.575
AOC-04-GP-04
1'-2', 0.165
AOC-04-GP-03
1.5'-2', ND
AOC-03-GP-01
1'-1.5', 0.2749
AOC-04-GP-02
1'-1.5', ND
AOC-12-GP-04
1'-2', 0.565
AOC-13-GP-01
1.1'-1.7', ND
AOC-12-GP-01
0.5'-1', 0.758
AOC-12-GP-02
0.5'-1', 0.4758
AOC-12-GP-03
1'-2', 0.2544
AOC-12-GP-06
1'-1.5', 0.655
AOC-12-GP-08
1'-1.5', 0.124
AOC-11-SS-08
0'-0.167', 2.39
AOC-11-SS-07
0'-0.167', 3.327
AOC-11-SS-06
0'-0.167', 5.634
SS-01
0'-0.16', 0.91
SS-01
0.5'-2', 0.11
AOC-11-SS-05
0'-0.167', 4.466
AOC-12-GP-05
1.5'-2', 0.0595
TP-06A
0.4'-0.5', ND
SB-43-20
0'-0.5', 0.51
AOC-12-GP-07
0.5'-1', 421.7
AOC-13-SB-03
1.3'-1.6', 0.071
AOC-12-GP-09
1'-1.5', 0.512
AOC-11-SS-04
0'-0.167', 10.431
AOC-11-SS-03
0'-0.167', 2.484
AOC-12-SS-08
0'-0.167', 104.31
AOC-13-MW-02I
1.5'-2', 0.962
SB-79-20
0'-1', 4.51
TP-08
1.35'-1.5', 0.73
AOC-12-SS-06
0'-0.167', 85.05
AOC-14-GP-01
1'-2', ND
AOC-14-GP-05
1.1'-2', ND
AOC-14-GP-04
0.8'-1.8', 0.242
AOC-11-SS-01
0'-0.167', 2.4
AOC-11-SS-02
0'-0.167', 2.255
AOC-12-SS-04
0'-0.167', 19.316
AOC-12-GP-11
0'-1.6', 89.16
AOC-12-SS-07
0'-0.167', 121.18
SB-48-20
0'-0.5', 14.28
AOC-12-SS-05
0'-0.167', 531.11
North SB-02
1.2'-2', 0.48
North SB-01
0.8'-1.4', ND
SF-44-21
0'-0.5', 2.11
SS-12
0'-0.16', 73.9
SS-12
0.5'-2', 0.113
SF-45-21
0'-0.5', 9.75
SF-22-20
0'-1', 4.887
SF-36-20
0'-1', 4.24
TP-09
0'-0.2', 23.55
AOC-12-SS-02
0'-0.167', 334.994
AOC-12-SS-01
0'-0.167', 192.63
SF-34-20
0'-1', 40.58
SF-35-20
0.8'-1.8', 0.142
SS-02
0'-0.16', 1.73
SS-02
0.5'-2', ND
AOC-15-GP-03
1'-1.5', ND
AOC-15-GP-04
1'-1.5', ND
AOC-15-GP-02
1'-2', 0.198
AOC-13-SB-05
1'-1.5', 0.01
SB-54-20
0.5'-1', 0.26
AOC-12-SS-03
0'-0.167', 111.54
SF-35-20
0.8'-1.8', 0.142
SF-23-20
0'-1', 2.517
SF-24-20
0'-1', 5.47
SF-25-20
0'-1', 3.593
SB-94-21
1'-1.75', 1.888
SB-94-21
0'-0.5', 75.01
SF-26-20
0'-1', 27.56
SB-95-21
1'-2', 4.04
SS-11
0'-0.16', 29.9
SS-11
0.5'-1.5', 8.56
SB-96-21
1'-2', 1.915
SF-27-20
0'-1', 22.29
SB-97-21
0'-0.5', 44.74
SB-97-21
1'-2', 0.883
SB-98-21
1'-2', 8.71
SF-28-20
0'-1', 24.9
SS-10
0'-0.16', 96
SS-10
0.5'-2', 1.34
MW-23I
0'-2', 75.87
AOC-01-TP-09
1'-1.3', 4.75
SS-09
0'-0.16', 7.12
SS-09
0.5'-2', 22.4
SS-08
0'-0.16', 7.58
SS-08
0.5'-2', 0.213
SS-07
0'-0.16', 1.23
SS-07
0.5'-2', 1.47
SS-06
0'-0.16', 2.94
SS-06
0.5'-1.5', 0.36
SF-29-20
0'-1', 45.92
SS-03
0'-0.16', 3.51
SS-03
0.5'-2', 5.13
SF-30-20
0'-1', 62.47
SB-99-21
1'-2', 21.247
SB-100-21
1'-2', ND
SB-101-21
1'-2', 14.461
SF-31-20
0'-1', 66.97
SB-102-21
1'-2', 10.393
SS-04
0'-0.16', 29.4
SS-04
0.5'-1.5', 18.4
SS-05
0'-0.16', 3.4
SS-05
0.5'-2', 9.59
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Legend
Total SVOC Concentration (mg/kg):
ND
< 10
10 - 100
100 - 500
> 500
Area of Concern
160
0
160 Feet
NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 0'-2' BGS
AECOM
FIGURE 3-12
C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_0-2ft_2022.mxd 5/25/2022

N

AOC-16-MW-05I 2'-3', ND
SB-51 1'-3.75', 12.36
SB-54 1'-3', 0.987
SB-53 1'-4', 3.75
AOC-16-GP-05 2'-3', 5.355
AOC-14-GP-03 2'-2.9', ND
North SB-03 1.8'-2.8', ND
AOC-14-GP-02 3'-4', 0.225
AOC-03-GP-07 3'-3.5', ND
AOC-06-MW-06I 2'-3', ND
SB-56 2'-4', 0.0687
AOC-03-GP-06 2'-2.5', 9.29
TP-05 2.4'-3', 0.024
AOC-14-GP-06 3'-4', 0.024
AOC-14-MW-21I 1.5'-3', 2.879
AOC-08-GP-01 3'-3.5', 16.622
AOC-08-SB-16 2.8'-4', 2.74
AOC-05-GP-02 3'-4', ND
AOC-05-MW-04I 2'-3', ND
AOC-15-GP-06 2'-2.5', 2.82
AOC-06-GP-01 3'-3.5', 0.089
AOC-03-GP-04 1.8'-2.3', 0.2993
AOC-14-GP-08 3'-4', 2.146
AOC-14-GP-07 2.2'-3.2', ND
AOC-15-GP-01 3'-3.5', 0.011
AOC-08-GP-03 3'-3.5', 336.5
AOC-08-SB-15 2'-4', ND
SB-39 1'-3.5', 0.05
AOC-04-GP-01 2'-3', 0.079
AOC-02-MW-01I 1.3'-2.3', 0.05
AOC-09-GP-01 2'-3', 5.149
AOC-09-GP-05 2.5'-3', 4.576
AOC-02-MW-03I 3'-4', 1.012
SB-20 1'-4', 0.0975
AOC-09-GP-06 2'-3', 3.035
AOC-02-GP-01 2'-3', 0.159
TP-07 2.8'-3.3', 2.489
AOC-08-SB-14 3'-3.6', 10.29
AOC-08-GP-02 2.5'-3', 3.613
AOC-09-GP-03 1.5'-2.5', 0.453
AOC-09-GP-07 2.6'-3.6', 4.049
TP-03 3.3'-3.5', 82.508
AOC-13-SB-02 1.7'-2.2', 2.15
AOC-13-SB-04 2.3'-2.9', ND
AOC-13-SB-06 2'-3', ND
AOC-09-GP-03 2.5'-3.5', 6.948
AOC-13-MW-19I 2'-3', 20.7
TP-02 3.3'-3.5', ND
AOC-09-GP-04 3'-4', 4.16
AOC-09-GP-08 2'-2.5', 7.378
AOC-12-MW-09I 2'-3', ND
AOC-10-SB-04 3'-4', 30.85
AOC-10-SB-07 2'-3', ND
AOC-12-GP-10 1.8'-2.4', ND
AOC-10-SB-08 2'-3', 12.6
AOC-10-SB-05 2'-3', 0.5636
AOC-10-SB-06 2'-4', 0.1493
AOC-10-SB-09 2'-3', 6.591
SB-78-20 1.5'-2.5', ND
AOC-10-MW-08I 3'-4', 23.81
AOC-10-SB-12 2'-3', 1.554
AOC-10-SB-01 2'-2.5', ND
AOC-10-SB-02 2.5'-3', 0.355
AOC-10-SB-13 2'-4', 9.699
AOC-11-GP-03 2'-3.6', 0.21
AOC-11-GP-02 2.4'-3', ND
AOC-11-GP-01 2.1'-2.8', 823.4
AOC-10-GP-02 2.5'-3.1', 0.065
AOC-10-GP-01 2.4'-3.4', ND

SB-95-21 2'-2.5', 1.674
SB-96-21 2'-3', 3.34
SB-97-21 2'-3', 0.658
SB-98-21 2'-2.5', 6.06
MW-22I 0.5'-2.5', ND
SB-66 2'-4', 0.13
AOC-01-MW-11I 2'-4', ND
SB-75 2'-4', 1.33
SB-76 2'-4', 1.624
AOC-01-TP-05 3'-4', 2.258
AOC-01-TP-X09 2'-3', 23.471
AOC-01-TP-X03 3'-3.5', 11.413
AOC-01-TP-X02 2.5'-3', 2.43
SB-74 2'-4', 1.719
AOC-01-TP-10 3'-4', 0.503
AOC-01-TP-08 3'-3.5', 5.134
AOC-01-MW-13I 3'-4', 12.37
AOC-01-TP-11 3'-4', 32.14
SB-78 2'-4', 0.87
AOC-01-TP-14 3'-4', 1.189
AOC-01-TP-X08 3'-3.5', 3.55
SB-63 2'-4', 0.75
AOC-01-MW-10I 2'-3', 1.5166
AOC-01-TP-15 3'-4', 0.951
AOC-01-TP-02 3'-4', 11.493
AOC-01-MW-12I 3'-4', 16.138
AOC-01-TP-23 2.4'-3.4', 16.2842
SB-80 2'-4', 3.55
SB-102-21 2'-3', 5.623
SB-99-21 2'-3', 54.875
SB-100-21 2'-3', ND
SB-101-21 2'-2.5', 22.576

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 2'-4' BGS

AECOM

FIGURE 3-13

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_2-4ft_2022.mxd 5/25/2022

N

AOC-16-MW-05I
5'-6', 0.22

AOC-07-GP-01
5'-6', ND

AOC-07-GP-04
5.5'-6', ND

AOC-08-N-TT-11
4'-5', 19.1

AOC-08-N-TT-47
4'-5', 0.45

AOC-08-S-TT-18
4'-4.5', 1.036

AOC-08-N-TT-80
4'-5', 9.291

AOC-08-S-TT-60
4'-5', 83.61

AOC-08-S-TT-86
4'-5', 46.1

AOC-08-GP-02
4'-5', 0.9

AOC-09-GP-01
5'-5.5', 1.26

AOC-09-GP-06
4'-5', 6.92

AOC-09-GP-07
4'-4.5', 0.0086

AOC-09-GP-08
4'-4.5', ND

AOC-05-GP-03
4'-4.5', ND

AOC-05-MW-04I
5'-6', 1.1173

AOC-05-GP-04
4'-5', 0.011

AOC-03-GP-07
5'-6', ND

AOC-04-GP-04
4'-5', ND

AOC-03-GP-04
5'-5.6', 1.449

AOC-04-GP-02
4'-5', ND

AOC-15-GP-04
4'-5', ND

SB-13
4'-6', 0.5056

AOC-15-GP-01
4'-5', ND

AOC-02-GP-01
4'-5', ND

AOC-02-MW-03I
5'-6', 1.3

AOC-13-GP-03
4'-5', ND

SB-33
4'-6', 0.1419

SB-09
4'-6', 0.016

AOC-13-SB-01
4'-4.5', ND

AOC-13-SB-01
5'-6', ND

SB-41
3.5'-6', 0.0217

TP-06D
4.7'-4.8', 161.3

AOC-13-SB-07
5'-5.5', 0.0061

SB-04
4'-6', 0.268

SB-56-20
1'-5', ND

TP-04
4'-4.3', ND

AOC-12-GP-12
4'-5', ND

AOC-12-MW-09I
4'-5', 0.56

MW-C
3'-5', 0.0134

AOC-10-SB-08
5'-6', 17.17

AOC-10-MW-08I
5'-6', 4.0121

AOC-10-SB-15
4'-5', 67.538

AOC-10-SB-14
4'-6', 8.977

SB-78-20
4'-5', 1.214

SB-79-20
3.5'-4.5', ND

AOC-01-TP-X01
4'-4.5', 1.291

AOC-01-TP-X07
4'-5', 14.255

SB-69
4'-6', 0.859

AOC-01-TP-X06
4'-5', 97.25

SB-72
4'-6', 1.3

AOC-01-TP-20
4'-5', 24.49

AOC-01-TP-X04
4.8'-5', 0.8269

AOC-01-TP-X05
4'-5', 6.268

SB-70
4'-6', 2.166

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 4'-6' BGS

AECOM

FIGURE 3-14

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_4-6ft_2020.mxd 2/15/2021

N

MW-E
5'-7', 0.382

AOC-16-GP-03
6'-7', 0.035

AOC-16-GP-06
6'-7', ND

AOC-16-GP-02
6'-7', ND

AOC-16-GP-05
6'-7', ND

MW-F
5'-7', 0.3815

AOC-03-GP-03
7'-8', ND

AOC-01-MW-11I
6'-8', 0.405

AOC-06-GP-02
7'-8', 0.0682

MW-D
5'-7', 0.0338

AOC-08-SB-16
6'-8', ND

AOC-06-GP-03
7'-8', ND

AOC-05-GP-02
7'-8', 0.568

SB-02
6'-8', 0.1889

AOC-07-GP-03
6'-6.5', 0.3858

AOC-05-SB-01
6'-7', 0.0203

AOC-05-SB-03
7'-8', ND

AOC-14-GP-07
7'-8', 0.035

MW-A
5'-7', 0.5825

AOC-06-GP-04
6'-7', ND

SB-57
6'-8', ND

AOC-05-SB-02
6'-7', ND

AOC-13-MW-02I
7'-8', 0.665

AOC-08-GP-03
7'-8', 0.7977

AOC-09-GP-05
6'-7', 4.123

AOC-09-GP-02
7'-8', 0.031

AOC-09-GP-09
6'-7', ND

SB-21
6'-8', 0.2346

SB-10
6'-8', 0.0235

AOC-13-GP-04
6.4'-7.4', ND

SB-30
4'-8', ND

AOC-13-GP-02
6'-7.5', ND

AOC-12-GP-04
6'-6.5', ND

AOC-12-GP-08
7'-8', 0.074

AOC-13-MW-20I
6'-6.4', 62.87

AOC-12-GP-05
7'-8', ND

AOC-10-SB-03
7'-8', 0.0088

AOC-12-GP-09
7'-8', 0.027

AOC-12-GP-02
6'-7', ND

SB-61
6'-8', 2.372

MW-C
3'-7', 0.0134

AOC-12-GP-06
7'-8', ND

AOC-11-GP-03
6'-7', 0.94

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 6'-8' BGS

AECOM

FIGURE 3-15

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_6-8ft_2020.mxd 2/15/2021

N

AOC-16-GP-04
8'-9', ND

SB-36
8'-10', 0.015

AOC-03-GP-02
9'-10', ND

AOC-03-GP-05
8'-9', 0.508

AOC-03-GP-01
9'-10', ND

SB-26
8'-10', 0.0917

AOC-14-GP-05
7.8'-8.2', 0.993

SB-12
8'-10', 2.626

AOC-14-MW-21I
8.2'-8.4', 8.05

AOC-14-MW-21I
9'-10', 1.464

SB-06
8'-10', 0.5223

SB-08
8'-10', 0.3813

SB-03
8'-10', 4.057

AOC-13-SB-08
8'-9', ND

SB-65
8'-10', 0.0709

AOC-07-GP-02
8'-8.5', ND

AOC-08-MW-07S
8'-10', 6.82

SB-29
8'-10', 0.0413

AOC-13-SB-05
8.5'-9.5', ND

AOC-13-SB-07
8'-9', ND

AOC-10-SB-04
8'-10', 0.9848

AOC-11-GP-04
8'-9', ND

AOC-10-SB-14
8'-10', 1.1289

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 8'-10' BGS

AECOM

FIGURE 3-16

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_8-10ft_2020.mxd 2/15/2021

N

SB-45
8'-12', 1.46

AOC-06-MW-06I
10'-12', ND

SB-17
10'-12', 4.227

AOC-05-SB-04
10'-10.7', 0.27

AOC-14-GP-05
10.5'-11', 1.739

SB-27
10'-12', 1.188

SB-19
10'-12', 1.29

SB-50
10'-12', 0.0312

SB-23
8'-12', 4.511

MW-B
9'-11', 0.0266

AOC-10-SB-11
10'-12', 0.804

AOC-10-SB-13
10'-11', 0.191

SB-74
10'-12', ND

SB-78
10'-12', ND

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 10'-12' BGS

AECOM

FIGURE 3-17

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_10-12ft_2020.mxd 2/15/2021

N

AOC-16-GP-01
12'-12.5', 2.362

AOC-08-MW-07I
15'-17', 0.531

AOC-08-MW-07I
19'-21', 4.32

AOC-08-MW-18I
12'-14', ND

AOC-05-SB-04
12'-14', 0.195

AOC-13-MW-02D
26.5'-27.1', ND

AOC-02-MW-01I
17'-18', ND

SB-75
14'-16', ND

AOC-01-MW-13I
19'-20', ND

AOC-01-MW-10I
19'-20', ND

AOC-01-MW-12I
21'-22', ND

MW-17I
13.5'-14', 0.19

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Area of Concern

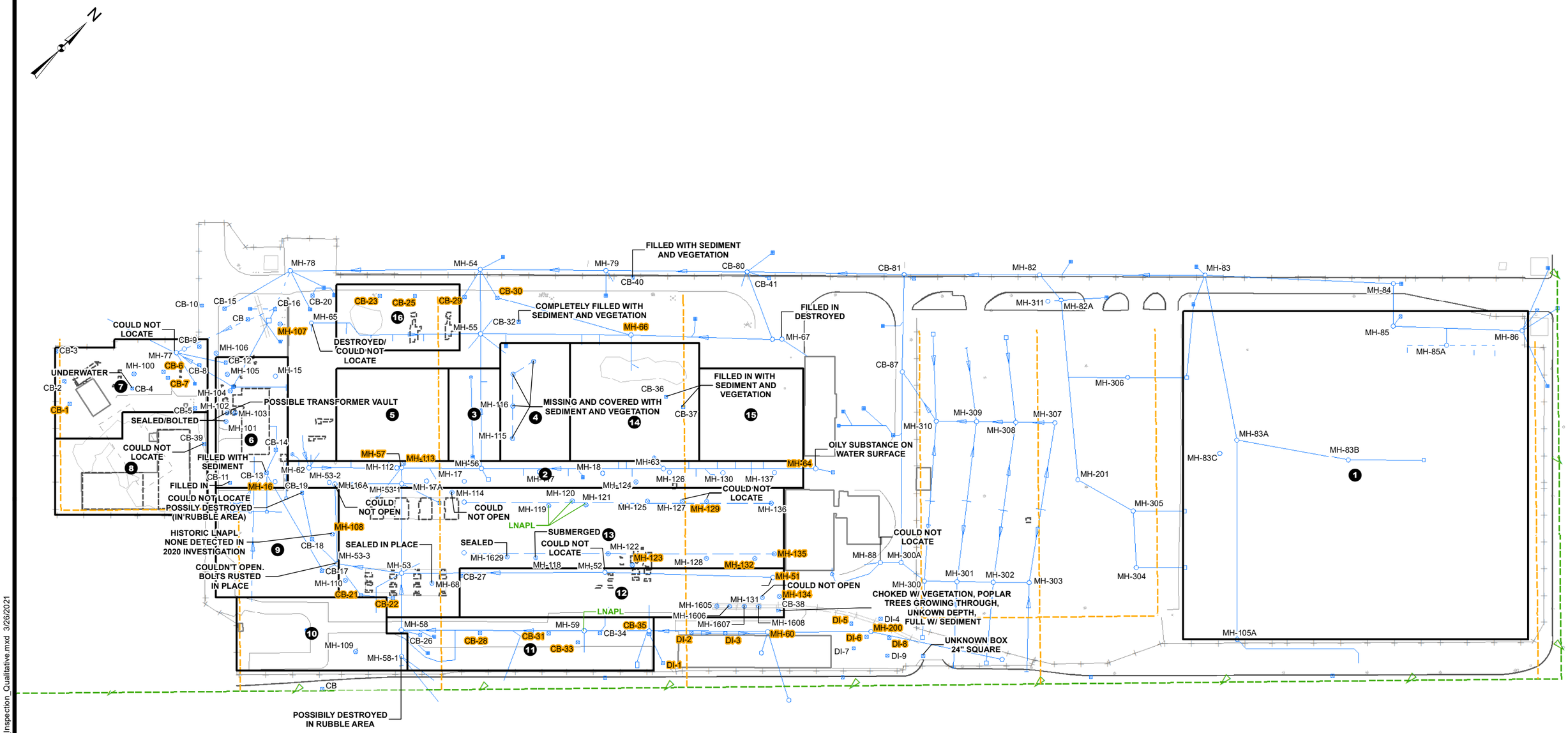
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 12'-28' BGS

AECOM

FIGURE 3-18

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_12-28ft_2020.mxd 2/15/2021



Legend

- CB-1 Sheen on Water
- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be Cleaned and Sealed
- Area of Concern

MH-59: 3-4" LNAPL
MH-119: 8" LNAPL
MH-120: 6" LNAPL
MH-121: 3" LNAPL

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
2020 SEWER QUALITATIVE DATA

AECOM

FIGURE 3-19

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\AECOM_2020_Inspection_Qualitative.mxd 3/26/2021

N

CB-16 32
CB-15 200
CB-10 4.5
CB-09 2.4
CB-08 1.4
CB-03 ND
CB-06 1.57
CB-12 1.9
CB-04 45.7
CB-07 6.5
CB-01 2.3
MH-103V 51
CB-39 5.8
CB-13 2.3
CB-11 5.7
MH-108 1.16
MH-053-3 267.9
CB-17 3.07
CB-21 2.8
MH-058 2.4
CB-26 0.59
CB-20 81
MH-107 1000
BCV-01-2020 ND
AOC-06-AST-B ND
AOC-06-PIPE-01 ND
AOC-06-AST-A ND
CB-14 1.46
MH-53-2 5.3
CB-22 21
CB-23 33
CB-25 11
MH-055 24
MH-113 6.1
CB-27 4.13
CB-28 5.1
CB-31 4.2
CB-30 11
CB-32 49.7
MH-059 11
CB-33 76
CB-34 4.3
CB-35 1.8
CB-40 7.7
MH-066 66
CB-36 100
CB-37 380
MH-126 880
MH-129 6.3
MH-137 ND
MH-064 14
MH-132 36
MH-132 6.3
MH-128 60
RRV-01-2020 0.26
MH-135 10.3
MH-051 5.3
MH-060 2.6
CB-41 208
DI-8-2020 2.7
MH-085 ND
F40EV-20 ND
MH-305 0.43

MH-78 MH-54 MH-79 CB-80 CB-81 MH-82 MH-83 MH-84 MH-86 MH-85A
MH-311 MH-82A
CB-29 MH-67 CB-87
MH-306 MH-309 MH-307 MH-308 MH-310
MAIN PARKING LOT
MH-201 MH-83A MH-83B MH-83C
MH-106 MH-105 MH-15 CB MH-100 CB-2 MH-104 MH-102 CB-5 MH-101
MH-62 MH-112 MH-57 MH-56 MH-17 MH-16 CB-19 MH-16A MH-53-1 MH-17A MH-114 MH-117 19 MH-119 MH-120 MH-121 MH-18 MH-124 MH-125 MH-63 MH-127 MH-130 MH-136
MH-116 MH-115
CB-18 MH-1629 MH-122 MH-118 MH-123 MH-52 MH-131 MH-134 MH-1605 MH-1606 MH-1608 CB-38
MH-110 MH-53 MH-68 MH-109 MH-58-1
MH-88 MH-300A MH-300 MH-301 MH-302 MH-303 MH-304
MH-200 MH-105A
CB

KENMORE AVE

C:\Users\maxwell.reis\Documents\Tonawanda_ForgeMAPS\Sediment_TotalPCB_2020.mxd 7/16/2021

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100

Existing Storm Sewer System

Proposed Onsite Sewer System

Sewer to be Cleaned and Sealed

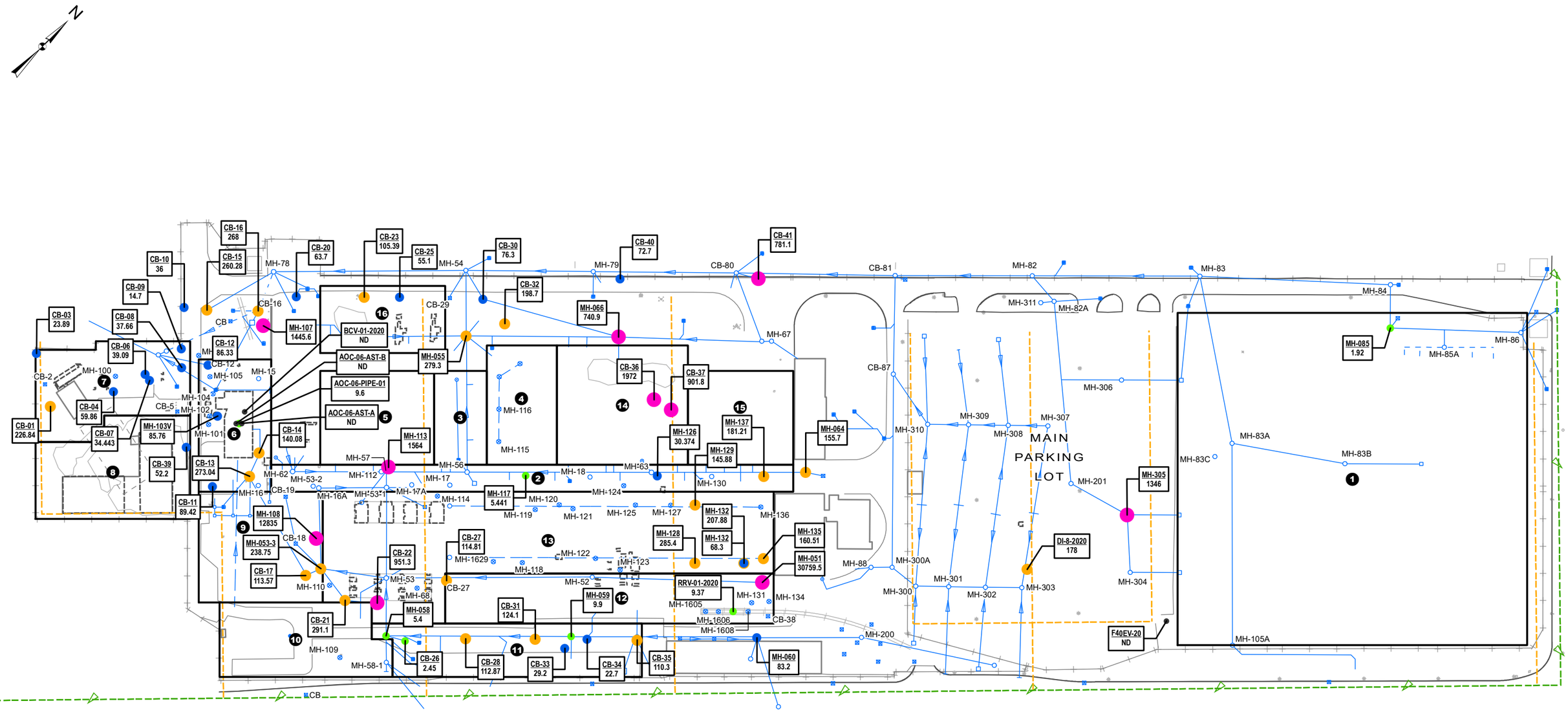
Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - SEWER SEDIMENT

AECOM

FIGURE 3-20



Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Existing Storm Sewer System

Proposed Onsite Sewer System

Sewer to be Cleaned and Sealed

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - SEWER SEDIMENT

AECOM

FIGURE 3-21

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Sediment_TotalSVOC_2020.mxd 7/19/2022

N

MH-107 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.16

MH-103V | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 2.69

MH-53-2 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 1.21

MH-108 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.11

MH-058 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.26

MH-059 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.54

SW-2020-4 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.066

MH-132 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.203

SW-2020-1 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 15

DI-8-2020 | CRIT | 12/20
PCBs:
Total PCBs | 0.065 | 0.097

MH-78 MH-54 MH-79 CB-80 CB-81 MH-82 MH-83 MH-84 MH-85 MH-85A MH-86
CB-10 CB-15 CB-16 CB-20 CB-23 CB-25 CB-29 CB-30 CB-40 CB-41
CB CB-9 CB-3 CB-2 MH-100 CB-6 CB-7 CB-8 CB-4 CB-1 MH-106 CB-12 MH-105 MH-15 MH-104 MH-102 MH-101 CB-5 CB-39
BCV-01-2020 CB-14 CB-13 CB-11 MH-62 MH-53-2 MH-112 MH-16 CB-19 MH-16A MH-53-1 MH-17A MH-17 MH-114
CB-18 MH-53-3 MH-53 CB-17 MH-110 CB-21 CB-22 MH-68 MH-109 MH-58-1 CB-26 CB-28 CB-27
MH-1629 MH-122 MH-118 MH-123 MH-128 MH-132 MH-135 MH-52 MH-51 MH-131 MH-134 RRV-01-2020 MH-1605 MH-1606 MH-1608 CB-38 CB-31 CB-33 CB-34 CB-35 MH-60 MH-200
MH-57 MH-113 MH-56 MH-117 MH-18 MH-63 MH-64 MH-116 MH-115 CB-36 CB-37 SW-2020-2 MH-66 MH-67 CB-32 MH-55
MH-119 MH-121 MH-120 MH-124 MH-125 MH-127 MH-129 MH-126 MH-130 MH-137 MH-136
SW-2020-3 CB-87 MH-310 PARK LOT WATER MH-309 MH-308 MH-307 MH-311 MH-82A MH-306
MAIN PARKING LOT
MH-201 MH-305 MH-304 MH-83A MH-83B MH-83C
MH-88 MH-300A SW-2020-5 MH-300 MH-301 MH-302 MH-303 F40EV-20 MH-105A

KENMORE AVE

Legend

- Surface Water Sample
- Sewer Water Sample
- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be Cleaned and Sealed
- Area of Concern

NOTES:
- Units are in ug/l
- Results only shown where they exceed Town of Tonawanda Aqueous Discharge Information Sheet

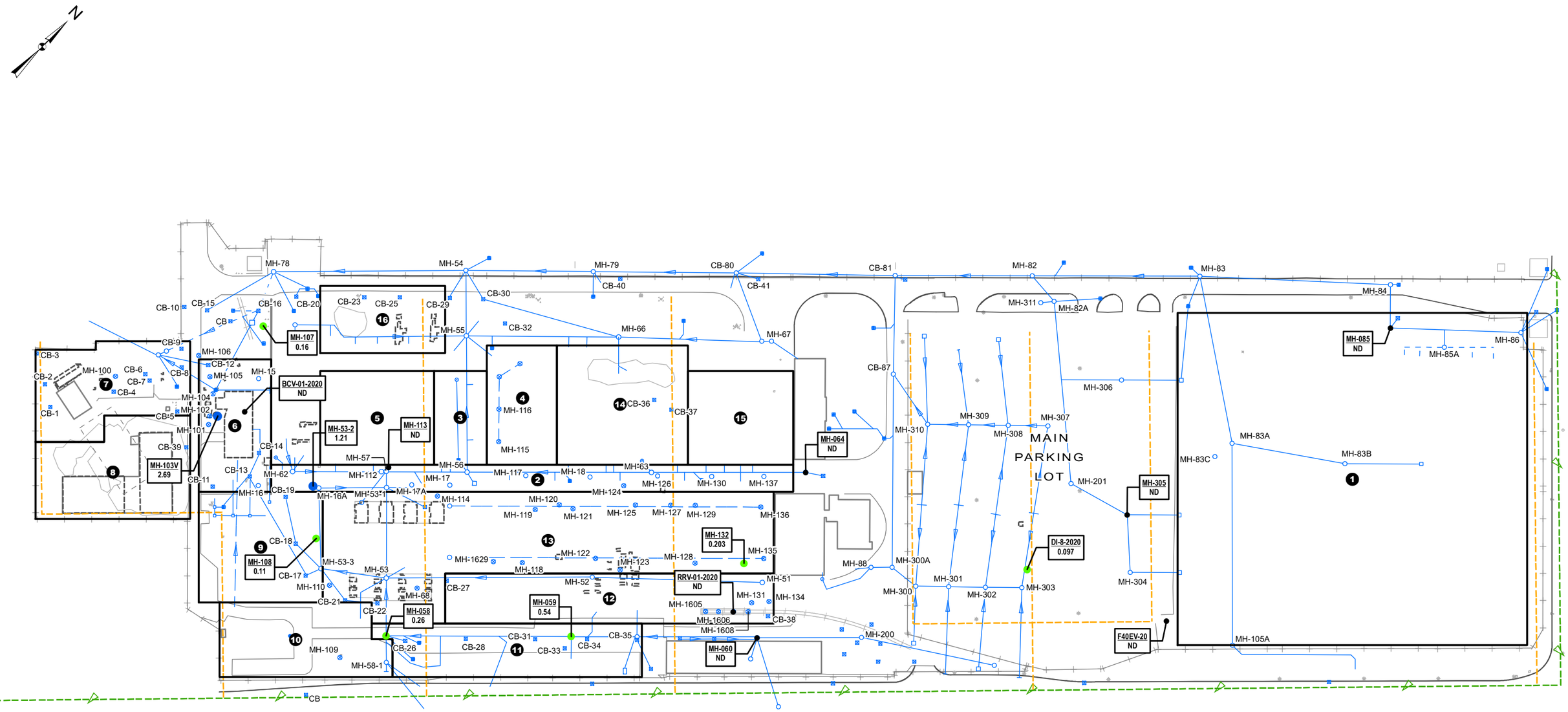
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SEWER/SURFACE WATER EXCEEDANCES

AECOM

FIGURE 3-22

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Surface_and_Sewer_Water_Exceedances.mxd 3/26/2021



Legend

Total PCB Concentration (ug/L):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100

Existing Storm Sewer System

Proposed Onsite Sewer System

Sewer to be Cleaned and Sealed

Area of Concern

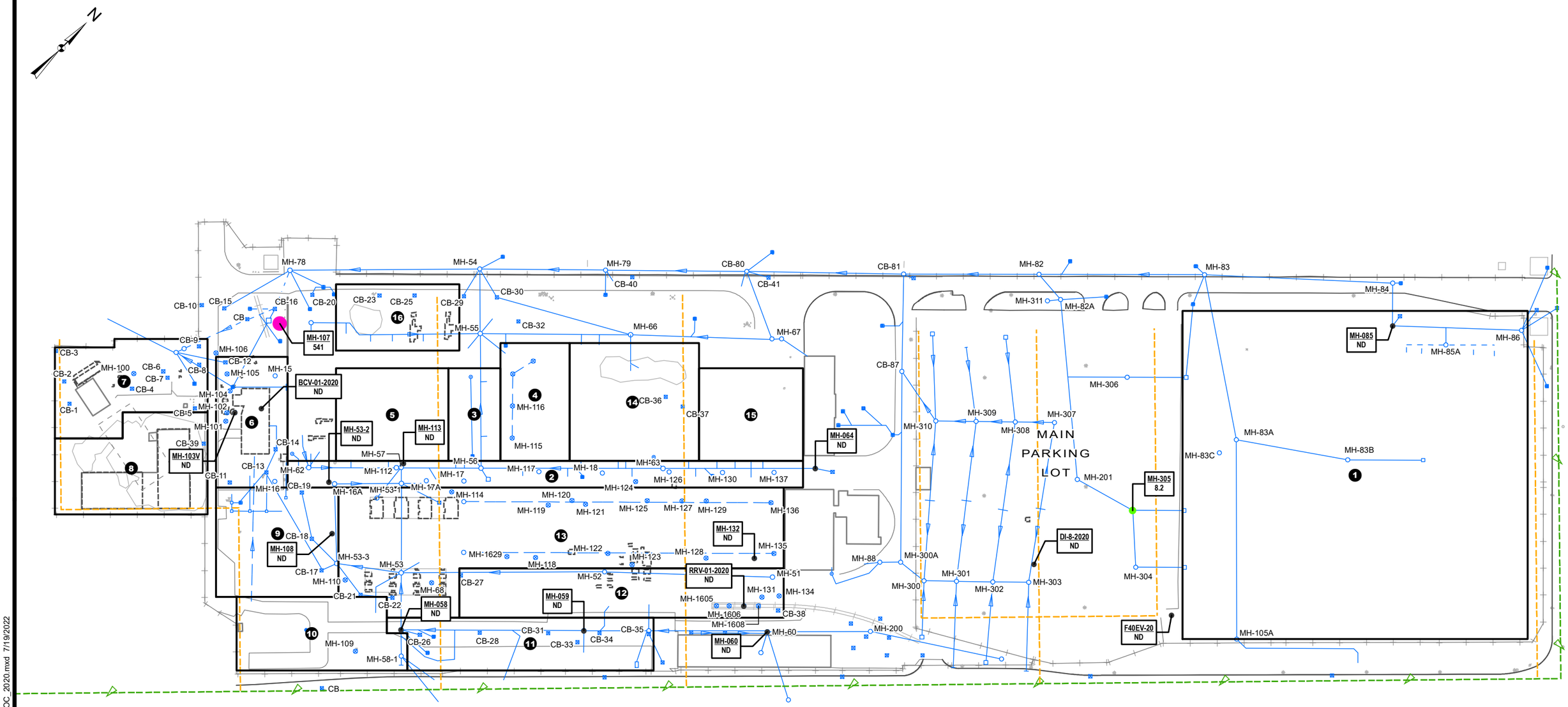
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - SEWER WATER

AECOM

FIGURE 3-23

C:\Users\maxwell.reis\Documents\Tonawanda_ForgeMAPS\Sewer_Water_TotalPCB_2020.mxd 3/26/2021



Legend

Total SVOC Concentration (ug/L):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

Existing Storm Sewer System

Proposed Onsite Sewer System

Sewer to be Cleaned and Sealed

Area of Concern

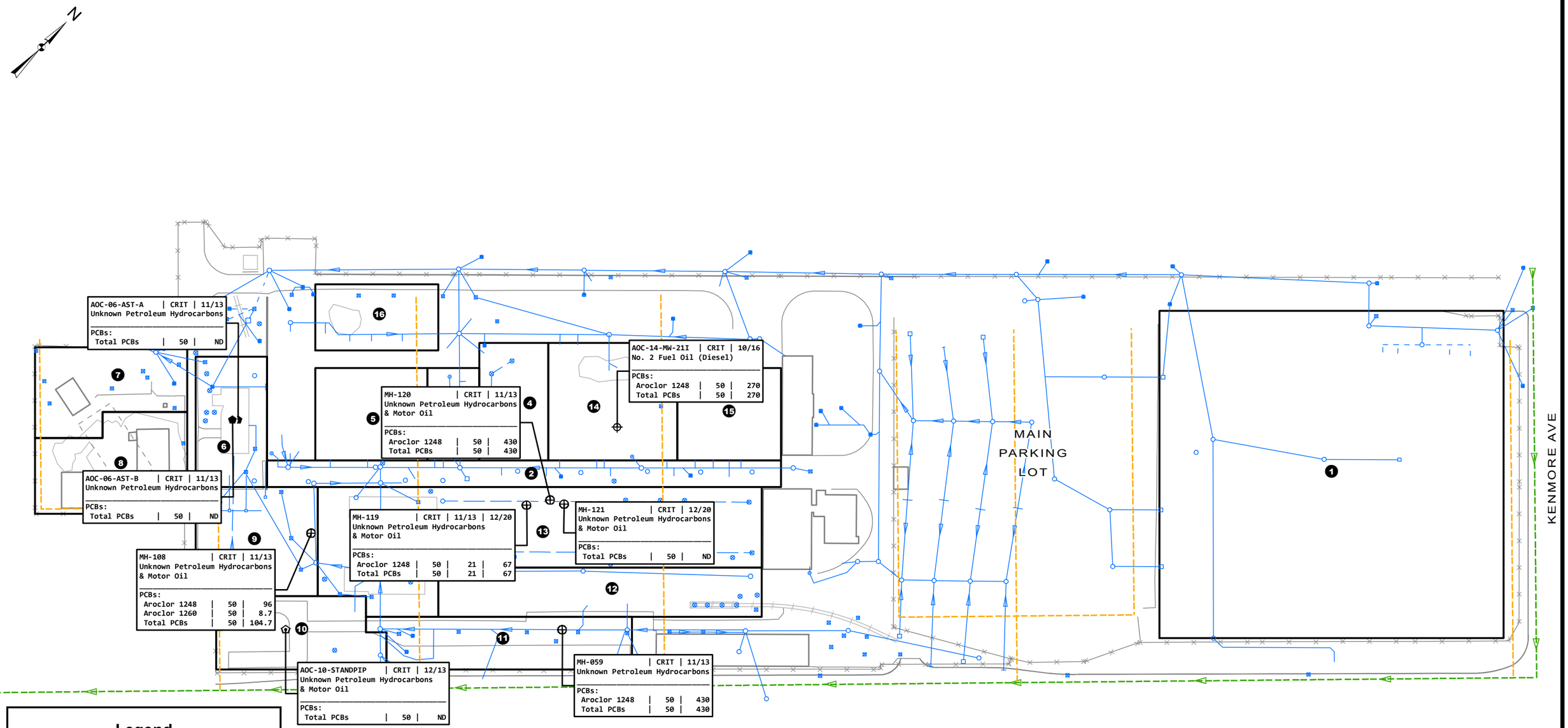
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - SEWER WATER

AECOM

FIGURE 3-24

C:\Users\maxwell.reis\Documents\Tonawanda_ForgeMAPS\Sewer_Water_TotalSVOC_2020.mxd 7/19/2022



Legend

- AST
- Standpipe
- Manhole
- Monitoring Well
- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be Cleaned and Sealed
- Area of Concern

Notes: Units are in mg/kg.
ND = Not Detected
Criteria: 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e)

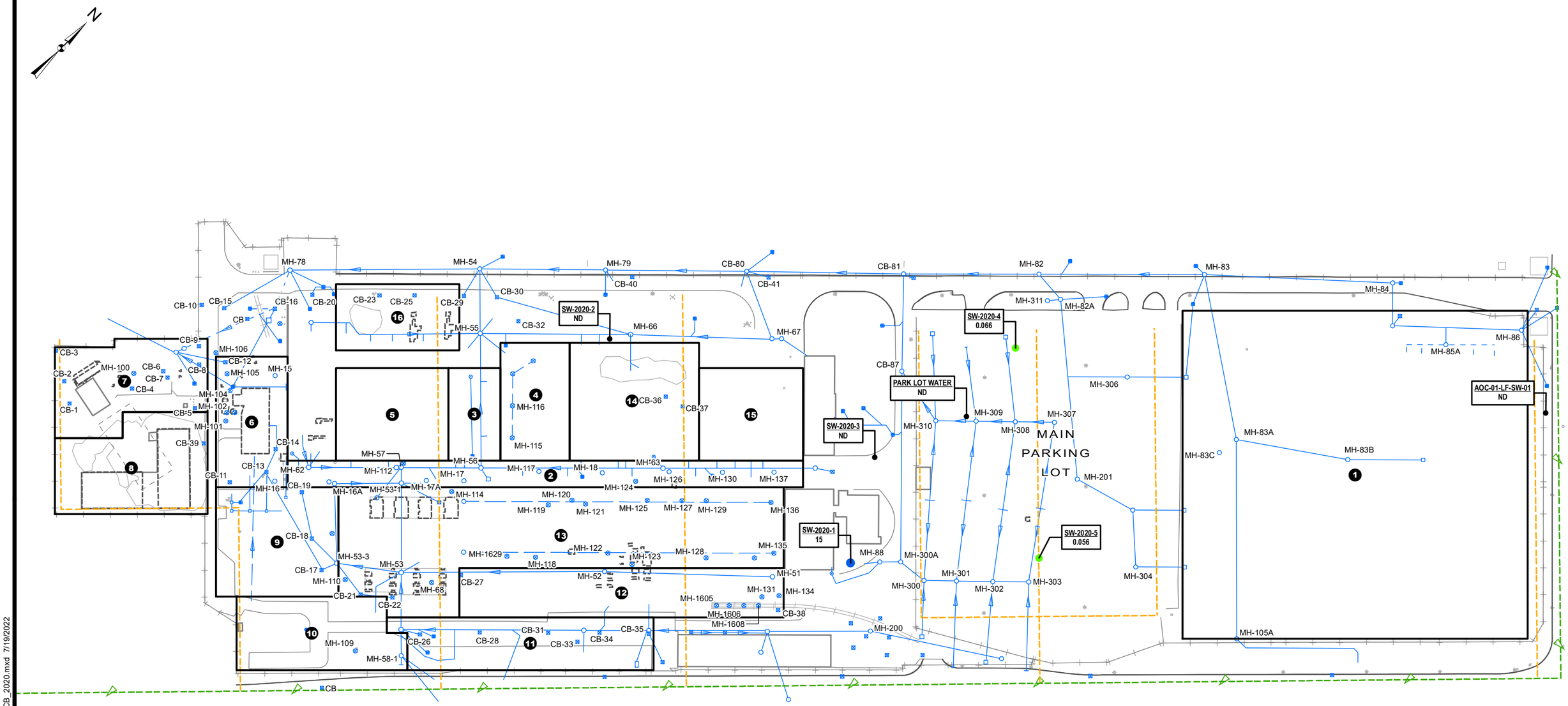
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
NON-AQUEOUS PHASE LIQUID ANALYTICAL RESULTS

AECOM

FIGURE 3-25

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\NAPL_Analytical_2020.mxd 3/26/2021



Legend

Total PCB Concentration (ug/L):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100

Existing Storm Sewer System

Proposed Onsite Sewer System

Sewer to be Cleaned and Sealed

Area of Concern

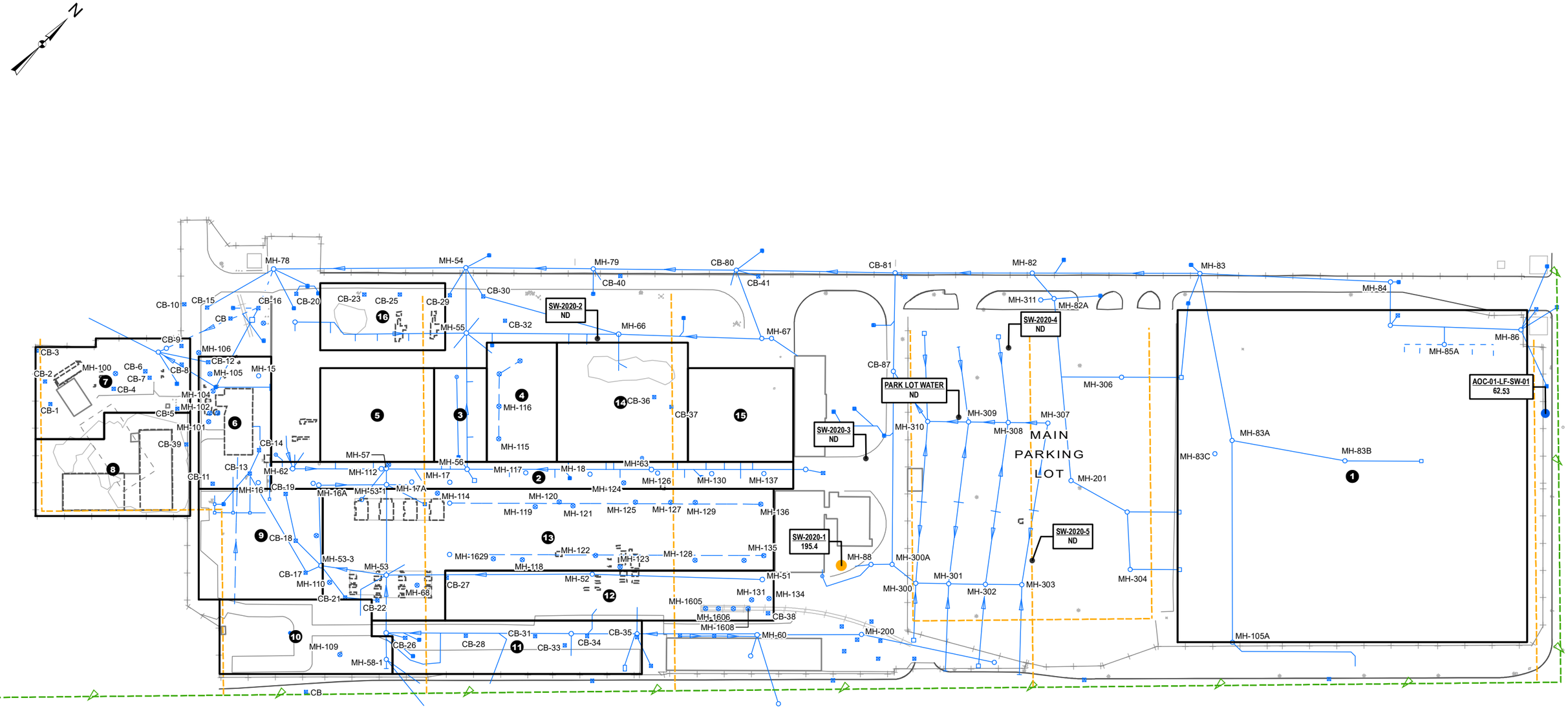
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - SURFACE WATER

AECOM

FIGURE 3-26

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Surface_Water_TotalPCB_2020.mxd 7/19/2022



Legend

Total SVOC Concentration (ug/L):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be Cleaned and Sealed
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - SURFACE WATER

AECOM

FIGURE 3-27

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Surface_Water_TotalSVOC_2020.mxd 3/26/2021

N

AOC-03-PZ-10	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	5.6	ND	1.8

AOC-03-PZ-09	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	14	2.4	2.3

AOC-16-PZ-08	CRIT	11/16	01/22
PCBs:			
Total PCBs	0.09	ND	0.294

AOC-16-PZ-B	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.47	ND

AOC-16-PZ-07	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	0.31	0.19	ND

AOC-08-MW-18S	CRIT	11/16	01/22
PCBs:			
Total PCBs	0.09	0.6	ND

AOC-08-MW-07S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.28	ND

AOC-09-PZ-02	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	0.63	0.69	0.336

AOC-08-PZ-05	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.7	ND

AOC-13-MW-19S	CRIT	11/16	01/22
PCBs:			
Total PCBs	0.09	4.8	1.87

AOC-13-MW-19I	CRIT	11/16	01/22
PCBs:			
Total PCBs	0.09	4.5	ND

AOC-10-PZ-04	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.18	ND

AOC-13-MW-02I	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	2.2	2.5	1.09

AOC-13-MW-02S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	9	19.8	23.8

AOC-01-MW-11S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.72	ND

MW-22S	CRIT	11/16	01/22
PCBs:			
Total PCBs	0.09	0.76	ND

AOC-01-MW-14S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.62	ND

AOC-01-MW-10S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.72	ND

AOC-01-MW-12S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	ND	0.28	ND

AOC-01-MW-15S	CRIT	01/14	11/16	01/22
PCBs:				
Total PCBs	0.09	0.56	0.56	ND

AOC-16-MW-E
AOC-16-MW-05I
AOC-16-PZ-A
AOC-16-MW-H
AOC-16-PZ-C
AOC-16-PZ-D
MW-F
MW-23I
AOC-01-MW-11I
AOC-06-MW-06I
AOC-05-MW-04S
AOC-05-PZ-06
AOC-05-MW-04I
AOC-08-MW-07I
AOC-07-MW-I
AOC-06-MW-D
AOC-08-MW-18I
AOC-14-MW-21I
AOC-14-MW-21S
AOC-02-MW-03D
AOC-02-MW-03S
AOC-02-MW-03I
AOC-02-MW-01I
MW-A
AOC-13-MW-02D
MW-22I
AOC-01-MW-13S
AOC-01-MW-13I
AOC-01-MW-10I
AOC-09-PZ-01
AOC-13-MW-20S
AOC-13-MW-20I
AOC-09-PZ-03
AOC-12-MW-09S
AOC-12-MW-09I
MW-B
AOC-12-MW-B
AOC-01-MW-12I
AOC-10-MW-08I
AOC-10-MW-08S
AOC-11-MW-C
MW-17I
MW-J
AOC-10-MW-16

Legend

- PCB Detection > 0.09 UG/L (2022 Sampling Event)
- PCB Detection > 0.09 UG/L (Before 2022 Sampling Event)
- No PCB Detections
- Area of Concern

Notes:
- ND = Not Detected
- All units shown in UG/L
- Crit = TOGS 1.1.1 Class GA
- All results shown in blue text exceed the 0.5 ug/L TSCA Unrestricted Use Decontamination Standard.

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS IN UNFILTERED GROUNDWATER

AECOM

FIGURE 3-28

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL_PCBS_NonDisso_Groundwater_2022.mxd 7/19/2022

N

AOC-16-MW-E
AOC-16-MW-05I
AOC-16-PZ-A
AOC-16-PZ-B
AOC-16-MW-H
AOC-16-PZ-08
AOC-16-PZ-07
AOC-16-PZ-C
AOC-16-PZ-D
MW-F
MW-23I
AOC-06-MW-06I
AOC-03-PZ-10
AOC-05-MW-04S
AOC-05-PZ-06
AOC-05-MW-04I
AOC-03-PZ-09
AOC-14-MW-21S
AOC-14-MW-21I
AOC-07-MW-I
AOC-08-MW-07I
AOC-08-MW-07S
AOC-08-MW-18S
AOC-08-MW-18I
AOC-06-MW-D
AOC-02-MW-03D
AOC-02-MW-03S
AOC-02-MW-03I
AOC-02-MW-01I
AOC-08-PZ-05
AOC-13-MW-02D
AOC-13-MW-02I
AOC-13-MW-02S
AOC-09-PZ-01
AOC-13-MW-20S
AOC-13-MW-20I
AOC-09-PZ-02
AOC-13-MW-19I
AOC-13-MW-19S
AOC-09-PZ-03
AOC-10-PZ-04
AOC-12-MW-09S
AOC-12-MW-09I
AOC-10-MW-08I
AOC-10-MW-08S
AOC-11-MW-C
AOC-10-MW-16
MW-22S
MW-22I
AOC-01-MW-11S
AOC-01-MW-11I
AOC-01-MW-14S
AOC-01-MW-13S
AOC-01-MW-13I
AOC-01-MW-10I
AOC-01-MW-10S
AOC-01-MW-12S
AOC-01-MW-12I
AOC-01-MW-15S
MW-17I
MW-J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

- Dissolved PCB Detection > 0.09 UG/L (2022 Sampling Event)
- Dissolved PCB Detection > 0.09 UG/L (Before 2022 Sampling Event)
- No Dissolved PCB Detections
- Area of Concern

Notes:
- ND = Not Detected
- All units shown in UG/L
- All filtered PCB analysis resulted with No Detections

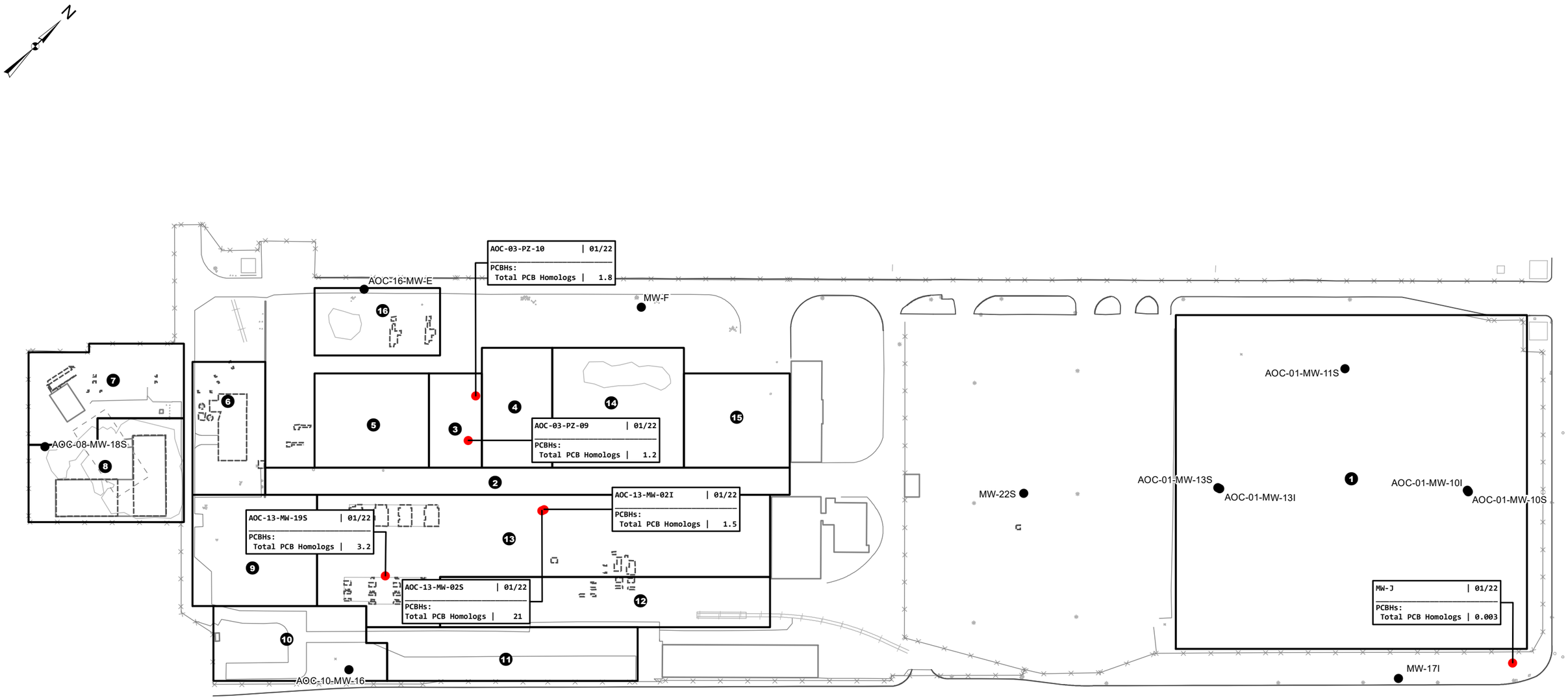
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
DISSOLVED TOTAL PCBS IN GROUNDWATER

AECOM

FIGURE 3-29

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Disso_Groundwater_2022.mxd 5/31/2022



Legend

- PCB Homolog Detection > 0.09 UG/L (2022 Sampling Event)
- No PCB Homolog Detections
- Area of Concern

Notes:
- ND = Not Detected
- All units shown in UG/L

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS HOMOLOGS IN GROUNDWATER

AECOM

FIGURE 3-30

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Homologue_Groundwater_2022.mxd 5/31/2022

N

RR-210A (0' - 4')	CRIT	03/99	
PCBs:			
Aroclor 1248	25	46	
Total PCBs	25	46	

UKNOWN OWNER
77.05-1-6.1

B-01 B-02 B-03 B-04 B-05 B-06 B-07

LEWIS BROS LLC
65.18-2-2

LEWIS BROS LLC
65.18-2-1

RR-066A

ECIDA
77.06-2-1

SS-09 (0.5' - 2')	CRIT	11/16	
SVOCs:			
Benzo(a)pyrene	1.1	1.7	

SS-08

SS-07 (0.5' - 2')	CRIT	11/16	
Metals:			
Arsenic	16	19	

SF-31-20 (0' - 1')	CRIT	11/20	
SVOCs:			
Benzo(a)pyrene	1.1	6.6	
Dibenz(a,h)anthracene	1.1	1.2	

SS-05 (0' - 0.16')	CRIT	11/16	
Metals:			
Arsenic	16	16.7	

SS-06

MW-17I SB-75-20

RR-034A RR-031A RR-016B RR-222A SS-01 SS-03 RR-251A RR-233A

RR-259A RR-267A RR-008A

SS-04 (0' - 0.16')	CRIT	11/16	
SVOCs:			
Benzo(a)pyrene	1.1	2.3	

SS-04 (0.5' - 1.5')	CRIT	11/16	
SVOCs:			
Benzo(a)pyrene	1.1	1.7	

SF-30-20 (0' - 1')	CRIT	11/20	
SVOCs:			
Benzo(a)pyrene	1.1	5.7	
Dibenz(a,h)anthracene	1.1	1.3	

OWNER
-3-1

ECIDA
65.18-1-1.111

ECIDA
65.18-1-1.12

UKNOWN OWNER
65.18-2-2

REL LLC
65.19-1-2.12

WOLF RIVER LLC
65.19-1-1.1

RR-024A (0' - 4')	CRIT	03/99	
PCBs:			
Aroclor 1248	25	180	
Total PCBs	25	180	

Legend

- Monitoring Well
- Soil Boring
- Surface Soil
- OU Boundary
- Parcel Boundary
- Area of Concern

Notes:
- Units are in mg/kg
- Results only shown where they exceed Part 375 Industrial Use SCOs

160 0 160 Feet

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Offsite_Exceedances.mxd 3/24/2021

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
OFFSITE AND PERIMETER ADJACENT EXCEEDANCES

AECOM

FIGURE 3-31

UKNOWN OWNER
77.05-1-6.1

RR-210A
0'-4', 46

B-01
16'-18', 0.213

B-02
8'-12', 0.0124

B-02
12'-16', 0.00859

B-03
12'-16', ND

B-04
12'-16', ND

B-05
12'-16', ND

B-06
12'-16', ND

B-07
12'-16', ND

SS-09
0'-0.16', 0.13

SS-09
0.5'-2', 0.21

SS-08
0'-0.16', 2.58

SS-08
0.5'-2', ND

SS-07
0'-0.16', ND

SS-07
0.5'-2', 2.71

SS-06
0'-0.16', ND

SS-06
0.5'-1.5', 0.14

SS-05
0'-0.16', 6.53

SS-05
0.5'-2', 15.49

MW-17I
13.5'-14', ND

SB-75-20
0'-1', 15

SB-75-20
3'-4', 0.06

RR-233A
0'-4', 0.037

SS-04
0'-0.16', 6.36

SS-04
0.5'-1.5', 12.1

SS-03
0'-0.16', 0.11

SS-03
0.5'-2', 0.4

SF-30-20
0'-0.5', 0.98

SF-31-20
0'-0.5', 1.3

RR-251A
0'-4', 0.4

RR-259A
0'-4', 1.03

RR-267A
0'-4', 0.37

SS-01
0'-0.16', ND

SS-01
0.5'-2', ND

RR-066A
0'-4', 1.8

RR-034A
0'-4', 9

RR-031A
0'-4', 3.2

RR-016B
4'-8', ND

RR-222A
0'-4', 24

RR-024A
0'-4', 180

RR-008A
0'-4', 0.178

LEWIS BROS LLC
65.18-2-2

LEWIS BROS LLC
65.18-2-1

ECIDA
77.06-2-1

UKNOWN OWNER
77.06-3-1

ECIDA
65.18-1-1.111

ECIDA
65.18-1-1.12

UKNOWN OWNER
65.18-1-2

REL LLC
65.19-1-2.12

WOLF RIVER LLC
65.19-1-1.1

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100

OU Boundary

Parcel Boundary

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
OFFSITE AND PERIMETER ADJACENT TOTAL PCBS

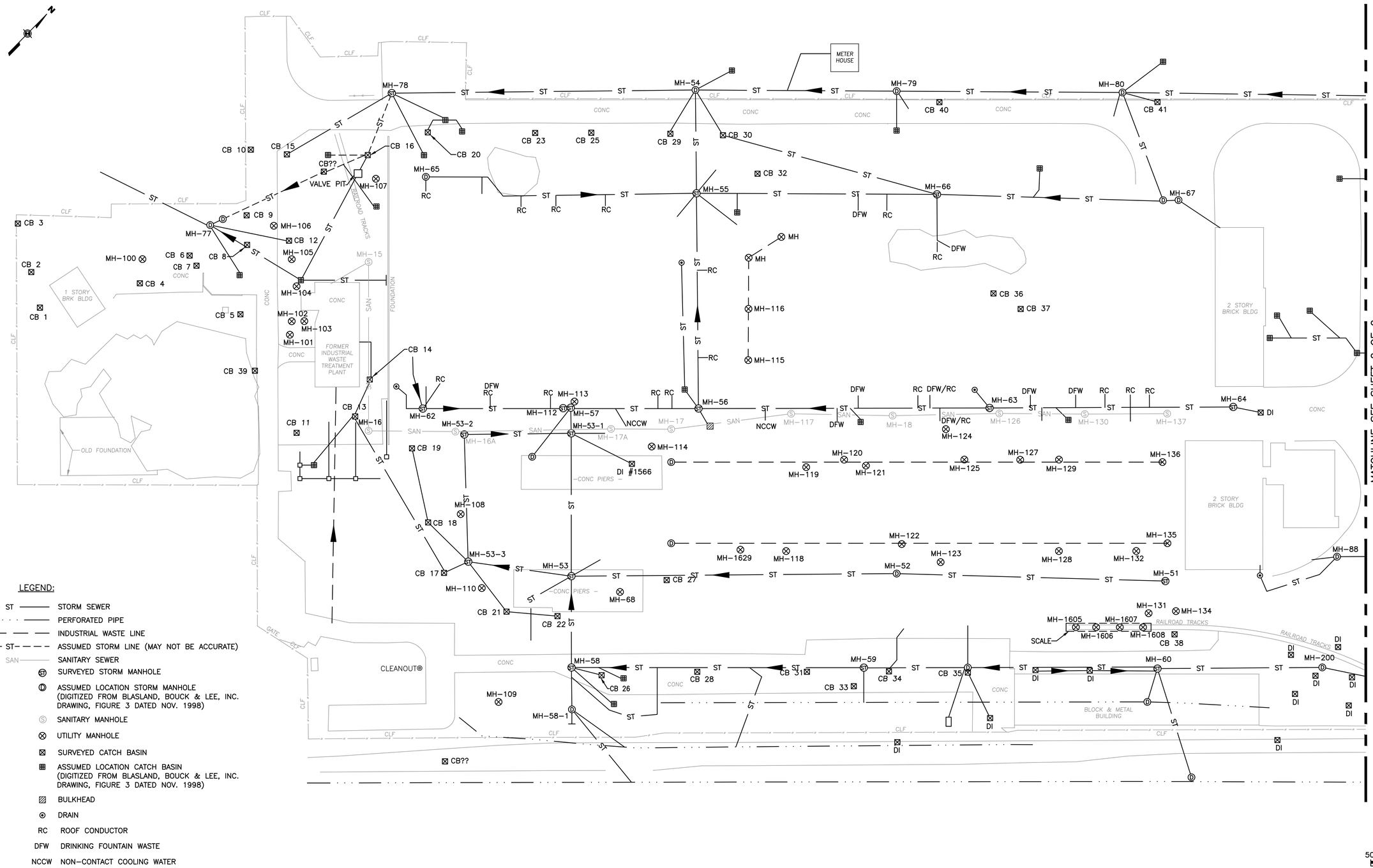
AECOM

FIGURE 3-32

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Offsite_TotalPCB.mxd 3/24/2021

PLATES

Per memo from the owner of this property that is attached with the original deed of transfer of the property, all rights to the information contained on this drawing is retained by the owner.



MATCHLINE SEE SHEET 2 OF 2

LEGEND:

- ST — STORM SEWER
- PERFORATED PIPE
- INDUSTRIAL WASTE LINE
- ST — ASSUMED STORM LINE (MAY NOT BE ACCURATE)
- SAN — SANITARY SEWER
- (ST) SURVEYED STORM MANHOLE
- (D) ASSUMED LOCATION STORM MANHOLE (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- (S) SANITARY MANHOLE
- ⊗ UTILITY MANHOLE
- ⊠ SURVEYED CATCH BASIN
- ▦ ASSUMED LOCATION CATCH BASIN (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- ▨ BULKHEAD
- ⊙ DRAIN
- RC ROOF CONDUCTOR
- DFW DRINKING FOUNTAIN WASTE
- NCCW NON-CONTACT COOLING WATER

DRAFT

50' 0 50'
SCALE IN FEET

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: .
DRAWN BY: RAL
CHECKED BY: .
PROJ. ENGR. .

AECOM
257 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176989

TONAWANDA FORGE
TOWN OF TONAWANDA NEW YORK

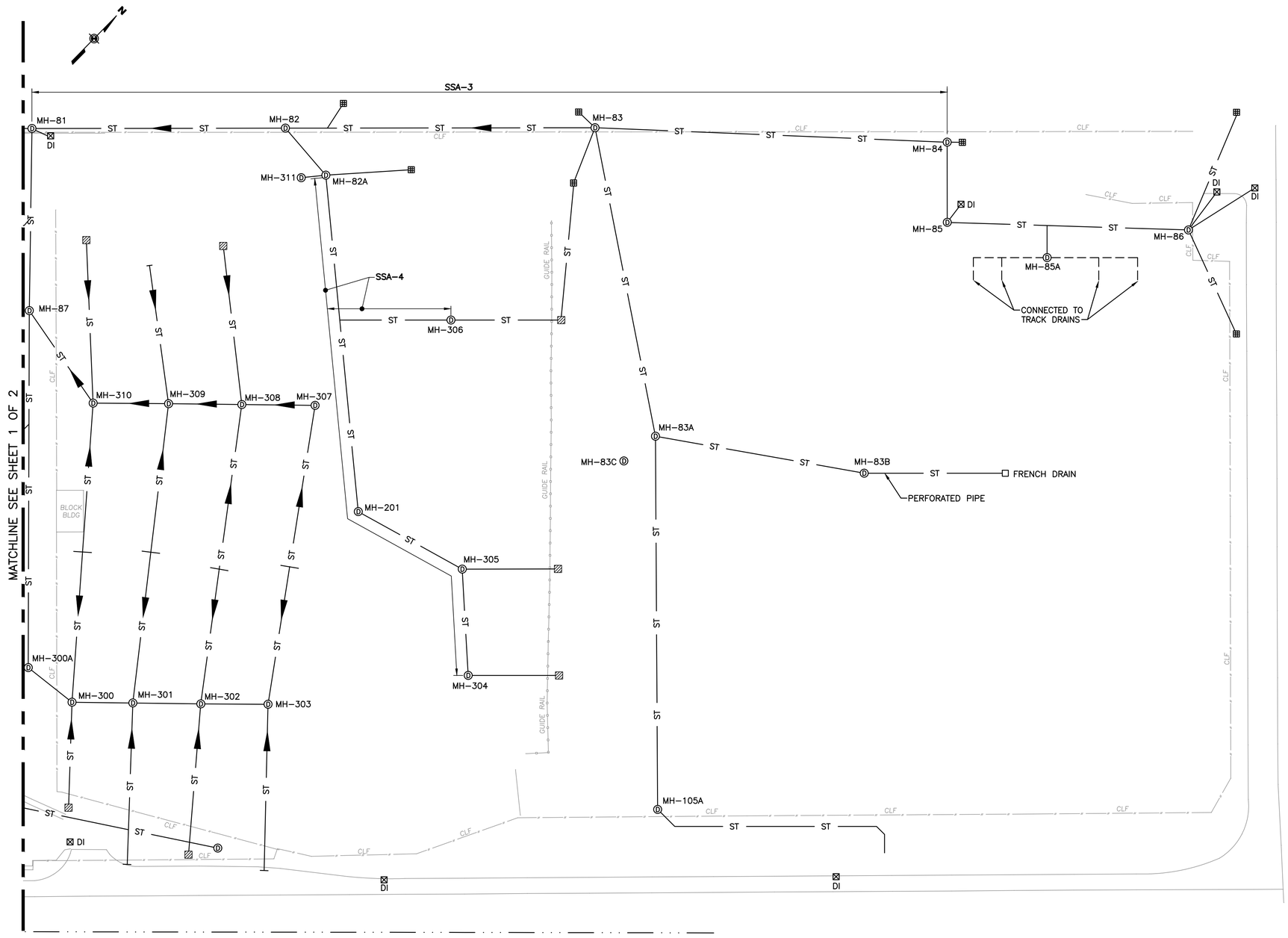
TONAWANDA FORGE
SITE #915274

SEWER SYSTEM
(SHEET 1 OF 2)

Scale: AS SHOWN | Date: MAY 2014 | PLATE 1

This drawing was originally created by AECOM and is the property of AECOM. Any unauthorized use of this drawing is prohibited by law.

J:\Projects\11176989\CADD\C-001 - C-002.dwg, SHEET 1, 1:2.58, 8/1/14 -1-RAL



LEGEND:

- ST — STORM SEWER
- PERFORATED PIPE
- INDUSTRIAL WASTE LINE
- ST — ASSUMED STORM LINE (MAY NOT BE ACCURATE)
- SAN — SANITARY SEWER
- SURVEYED STORM MANHOLE
- ASSUMED LOCATION STORM MANHOLE (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- S — SANITARY MANHOLE
- UTILITY MANHOLE
- SURVEYED CATCH BASIN
- ASSUMED LOCATION CATCH BASIN (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- BULKHEAD
- DRAIN
- RC — ROOF CONDUCTOR
- DFW — DRINKING FOUNTAIN WASTE
- NCCW — NON-CONTACT COOLING WATER

DRAFT

50' 0 50'
SCALE IN FEET

Any copies from the original of this drawing that are produced with the original seal or signature of the Professional Engineer or Land Surveyor shall be considered as a valid copy.

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: .
DRAWN BY: RAL
CHECKED BY: .
PROJ. ENGR. .

AECOM
57 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176989

TONAWANDA FORGE
TOWN OF TONAWANDA NEW YORK

TONAWANDA FORGE
SITE #915274

SEWER SYSTEM
(SHEET 2 OF 2)

Scale: AS SHOWN | Date: MAY 2014 | PLATE 1

The drawing was computer generated and drafted and any revisions should be made by the owner's authorized agent.

J:\Projects\11176989\CADD\C-001 - C-002.dwg, SHEET 2, 12:58, 8/1/14 -1-RAL

ENVIRONMENTAL BUILDING

FORMER TANK FARM

ADMINISTRATION BUILDING

CAFETERIA

NET SHAPE GEAR WAREHOUSE

MATCHLINE - SEE SHEET 2

Legend

- Monitoring Well
- Surface Water Sample
- Chip Sample (Concrete, Brick, & Asphalt)
- Geoprobe Sample
- Grab Sample (Bulk Solids)
- Wipe Sample
- Piezometer
- Soil Boring
- Surface Soil Sample
- AST & Pipe Sample
- Test Trench Sample
- Standpipe Sample
- Manhole
- Catch Basin
- Test Pit
- Area of Concern
- Debris/Waste Pile (Removed Feb. 2016)

100 0 100 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
RI SAMPLING LOCATIONS

AECOM

PLATE 2
(SHEET1 OF 2)

J:\Projects\60199903\GIS\MAPS\RI PHASE 2\PLATE 01\MW-98 CC-58 LOCATIONS.mxd 9/2/2020

MATCHLINE - SEE SHEET 1

MAIN PARKING LOT

KENMORE AVE

UAW-GM BLVD

SS-11
SS-10
MW-23I
SS-09
SS-08
SS-07
SS-06
SS-05
SS-04
SS-03
MW-J
MW-17I
MW-22S
MW-22I
PARK LOT WATER
AOC-01-LF-SW-01
AOC-01-TP-05
AOC-01-MW-11I
AOC-01-MW-11S
AOC-01-TP-09
AOC-01-TP-10
AOC-01-TP-X02
AOC-01-MW-14S
AOC-01-TP-X10
AOC-01-TP-08
AOC-01-TP-11
AOC-01-TP-X03
AOC-01-TP-X09
AOC-01-TP-X01
1
AOC-01-MW-13S
AOC-01-MW-13I
AOC-01-MW-10I
AOC-01-MW-10S
AOC-01-TP-14
AOC-01-TP-15
AOC-01-TP-X08
AOC-01-TP-02
AOC-01-TP-20
AOC-01-TP-X07
AOC-01-TP-X04
AOC-01-TP-X06
AOC-01-MW-12S
AOC-01-MW-12I
AOC-01-TP-23
AOC-01-MW-15S
AOC-01-TP-X05

Legend

- Monitoring Well
- Surface Water Sample
- Chip Sample (Concrete, Brick, & Asphalt)
- Geoprobe Sample
- Grab Sample (Bulk Solids)
- Wipe Sample
- Piezometer
- Soil Boring
- Surface Soil Sample
- AST & Pipe Sample
- Test Trench Sample
- Standpipe Sample
- Manhole
- Catch Basin
- Test Pit
- 1 Area of Concern
- 1 Debris/Waste Pile (Removed Feb. 2016)

100 0 100 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
RI SAMPLING LOCATIONS

AECOM

PLATE 2
(SHEET 2 OF 2)

I:\Projects\60111998\GIS\MAPS\RI PHASE 2\PLATE 02 RW 09 CC SS LOCATIONS.mxd 9/2/2021

APPENDIX A

URS 2018 REMEDIAL INVESTIGATION REPORT

Available Upon Request

APPENDIX B

PRE-DESIGN INVESTIGATION WORK PLAN

PRE-DESIGN INVESTIGATION

WORK PLAN ADDENDUM

WORK ASSIGNMENT D009803-24.1

TONAWANDA FORGE SITE OPERABLE UNIT 1
SITE NO. 915274
2390 KENMORE AVE.
TOWN OF TONAWANDA
ERIE COUNTY, NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION
Remedial Bureau E

AECOM USA, Inc.
One John James Audubon Parkway
Suite 210
Amherst, New York 14228

December 2021

Addendum to the Pre-Design Investigation Work Plan
at the Tonawanda Forge Site
Town of Tonawanda, New York 14150

Supplemental Sampling and Analyses to Address Data Gaps from the November 2020 Pre-Design Investigation at the Tonawanda Forge Site (ID #915274; Contract D009803, WA#24.1)

1.0 INTRODUCTION

This addendum to the *Pre-Design Investigation Work Plan (PDIWP) for the Tonawanda Forge Site, Tonawanda, New York 14150* (AECOM, November 2020) is designed to summarize the tasks that will be implemented during the supplemental sampling, analyses and reporting that will fill data gaps from the November 2020 Pre-Design Investigation. This PDIWP addendum will follow the companion Generic Field Activities Plan (FAP), Generic Quality Assurance Project Plan (QAPP), which are included as Appendices A and B of the original PDIWP, respectively. A revised site specific Health and Safety Plan (HASP) will also be followed. This revised HASP is presented as Appendix C.

2.0 SCOPE OF WORK

AECOM and our subcontractor team will complete a supplemental field investigation. This task includes an assessment and evaluation of additional environmental sampling and data requirements to complete the design and polychlorinated biphenyl (PCB) Cleanup Plan. The following work elements are included in this Task:

- Soil contamination delineation and environmental sampling of surface soils and impervious materials;
- Review of environmental sampling of concrete/bricks/non-porous surfaces impacted by former spills;
- Soil borings and soil sampling to refine the delineation of soil contamination per the United States Environmental Protection Agency's (USEPA) request;
- Sampling groundwater from all existing site monitoring wells and piezometers; and,
- Survey of new sampling locations.

2.1 Fieldwork

The locations of the solid samples are shown in Figure 1. The rationale for sampling solids (i.e., soils, impervious surfaces, etc.) is shown in Table 1.

The fieldwork will include the following subtasks.

<u>Impervious Surface Sampling</u>

- Collect 19 samples of concrete chip and brick chips exhibiting staining on surfaces not previously sampled around the site and analyze for PCBs by Method 8082A.

Groundwater Sampling

- Complete a synoptic round of groundwater levels from all monitoring wells and piezometers shown in Figure 2.
- All groundwater monitoring wells (49) and piezometers (14) will be sampled utilizing low flow procedures for PCB analysis by USEPA Method 608.3. Samples will be collected after purging a minimum of one well volume and the water quality parameters have stabilized. An unfiltered and a filtered (using a 0.45 micron filter) aliquot will be collected from each well. An additional filtered aliquot will be collected from each well for potential PCB homolog analysis. The PCB homolog aliquot will be held by the laboratory, pending results of the filtered sample analysis. Samples with dissolved PCB concentrations exceeding groundwater standards, criteria and guidance (SCG) will be analyzed for PCB homologs by USEPA Method 680.

Subsurface Soil Contamination Delineation

- Direct-push sample probes will be advanced to depths of up to 12 feet below ground surface (bgs) or the native clay interface at approximately 23 locations where further delineation is needed; and
- Up to four subsurface soil samples including one from the native clay interface in the western (industrial) portion will be collected from each sample probe for a total of approximately 46 primary samples. Every soil sample will be analyzed for TCL PCBs by Method 8082A. Representative samples collected from nine locations in and near AOC-01 will also be analyzed for TCL SVOCs by Method 8270D and arsenic by Method 6010D.

Surface Soil Contamination Delineation

- Surface soil samples be collected to depths of up to 0.5 feet bgs at approximately nine locations where further delineation is needed; and
- Every soil sample will be analyzed for TCL PCBs by Method 8082A. Representative samples collected from two locations in and near AOC-01 will also be analyzed for TCL SVOCs by Method 8270D and arsenic by Method 6010D.

Table 2 summarizes the sample analytical program and associated quality control samples. The bottles, volumes, preservatives and holding times for each sample is summarized in Table 3. New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B (or equivalent) data deliverables will be provided by the laboratory for all analytical data. Analytical data will be validated and a Data Usability Summary Report (DUSR) will be included in AECOM's report deliverable (Section 2.2). Analytical services will be provided by a NYSDEC call-out laboratory.

All investigation-derived waste (IDW), including purge and decontamination water and soil spoils, will be drummed for disposal. Drums will be removed from the site after analytical results from the environmental sampling are received from the laboratory.

Engineering Survey

The location of all new impervious surface, direct-push probe, surface soil, and other environmental sample locations will be surveyed by a licensed surveyor. The survey will tie into the existing site survey and basemap.

2.2 Final Report

The July 2021 Pre-Design Report and August 2021 PCB Cleanup Plan will be modified to incorporate the additional investigation data and will be submitted as a draft report within 75 days after analytical data are received from the laboratory. A final version of the report will be submitted within 4 weeks after the NYSDEC's and USEPA's comments on the draft reports are received by AECOM. The report for this task will include the following:

- A description of field activities conducted on the site;
- Site maps depicting relevant site features;
- Figure(s) depicting soil probe borings, surface soil and impervious sample locations, and key site features;
- Figures depicting sample locations and NYS SCG non-compliance values from the soil and groundwater analytical data collected during site work;
- Data summary tables of detected compounds with NYS SCGs listed, and non-compliance values highlighted;
- A discussion of analytical results;
- Field notes and daily activity logs;
- Photographs taken at the site during field activities;
- Manifests and bills of lading signed by the disposal facility documenting the proper disposal of IDW;
- Survey field notes, site sketches, and drawings;
- The site basemap will be revised and will be used for the plans and specifications; and
- A DUSR containing only data from the additional fieldwork discussed above.

FIGURES

N

Legend

- Proposed Concrete Chip (PCBs Only)
- Proposed Soil Boring (PCBs and SVOCs)
- Proposed Surface Soil (PCBs and SVOCs)
- Brick
- Concrete Chip
- Wood Core
- Monitoring Well
- Geoprobe
- Soil Boring
- Surface Soil
- Test Trench
- Area of Concern

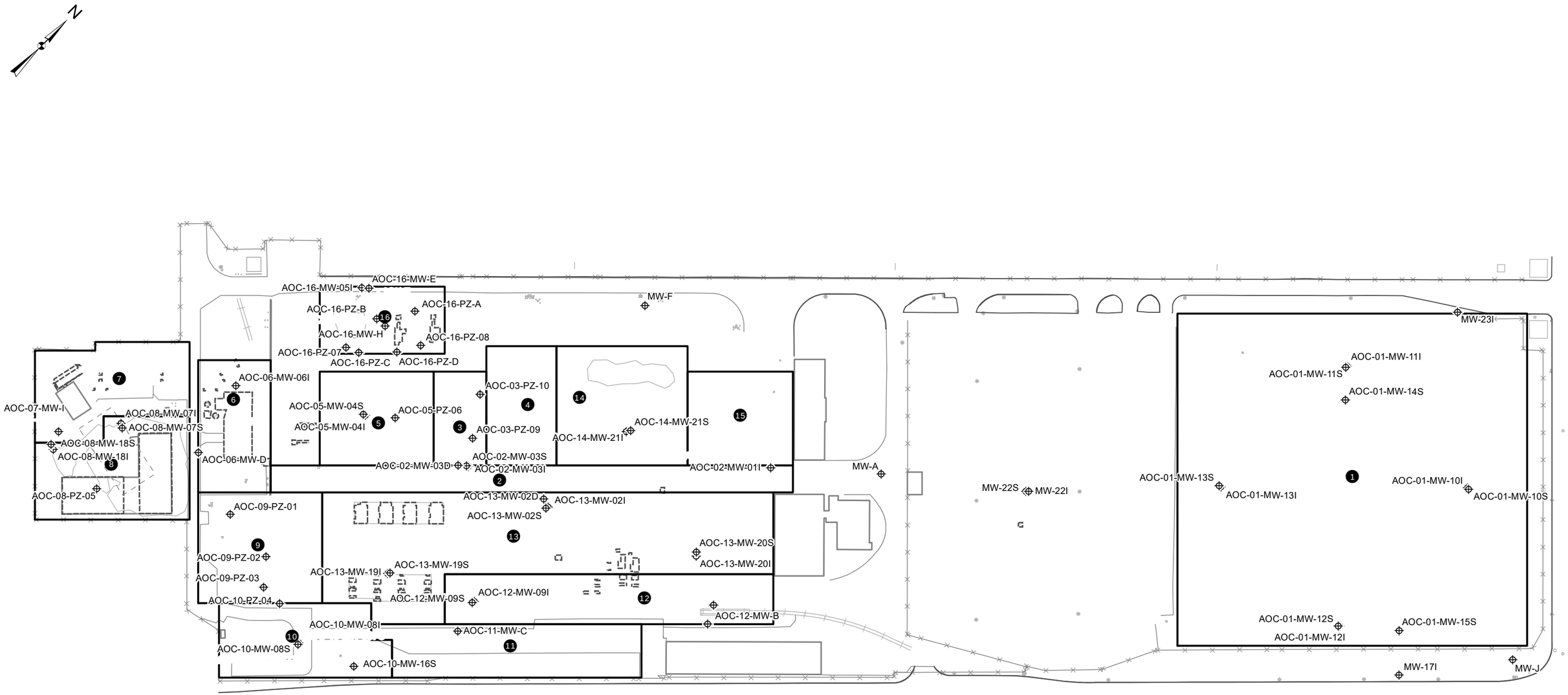
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
PROPOSED PHASE II
PDI SAMPLE LOCATIONS

AECOM

FIGURE 1

C:\Users\rowand1\ed\Documents\Tonawanda_Forge\MXD\Proposed_Sample_Locations_2021.mxd 4/7/2021



Legend

- Monitoring Well
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
MONITORING WELL LOCATIONS

AECOM

FIGURE 2

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Monitoring_Well_Locations.mxd 10/26/2021

TABLES

TABLE 1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24.1
PROPOSED PHASE II SAMPLING RATIONALE FOR SOLIDS

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-1	ECM Area (Front Forty)	Industrial Landfill and vegetated areas north and south of parking area impacted with fill.	Contaminated fill	Elevated PCBs in fill materials within landfill and elevated arsenic and benzo(a)pyrene north and south of parking area.	Additional surface and subsurface soil data needed to determine horizontal and vertical extent of both surface and subsurface soils in vegetated areas north and south of parking areas.	Concentrations of arsenic and benzo(a)pyrene above industrial SCOs. Additional surface soil samples needed near SS-12 and additional subsurface soil samples in the vegetated areas north and south of parking lot.	9 soil borings, 2 Surface samples	0-0.5, 1-2, 2-3	Characterize soil beneath surface cover to better delineate extent of concentrations of PCBs, arsenic and benzo(a)pyrene above industrial SCOs.
A0C-2	Former PCB Spill Area	Damaged electrical transformer	Surface PCB spill from damaged electrical box	25 ppm PCBs at 3-4 feet bgs in central area. Impervious surface impacted with PCBs.	Three borings previously completed in the spill area with limited impacts and a couple other clean samples. Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	2 surface samples. 7 additional concrete samples.	0 - 0.5 * See below for concrete	No likely sources outside of spill area and impacts in spill area are limited. Surface sample in area of spill to assess utility of surface cover as part of cap material.
A0C-3	Relay Rod Area	Oil pits, relay rod area, trenches	Surface contamination from trenches and oil pits.	PCB concentrations >25 in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	1 concrete sample	* See below for concrete	Additional concrete sample needed to delineate extent of PCBs in impervious cover.
A0C-4	Machine Repair Area	Drains in machine and truck repair areas with oil	Surface spills, except possibly in sump in truck repair area	PCB concentrations >25 in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	2 concrete samples	* See below for concrete	Additional concrete samples needed to delineate extent of PCBs in impervious cover.
A0C-5	Basement & Quench Oil Pump Pits	Backfilled oil pump pits.	Subsurface spill from oil pump pits and potentially contaminated backfill	PCB concentrations >25 in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	1 concrete sample	* See below for concrete	Additional concrete samples needed to delineate extent of PCBs in impervious cover.
A0C-6	Waste Treatment Area, Sewer Lift Station & Waste Storage Area	Waste disposal AST	Surface spill from AST	PCBs detected in 2 of 12 samples at a maximum concentration of 3.2 ppm.	Limited evidence of PCB impacts in shallow samples. No evidence of deeper impacts.	Delineation appears adequate.	NA	NA	NA
A0C-7	Environmental Building (Former oil Pump)	Oil pump house UST and hazardous waste storage area	Surface spills from waste storage area.	PCBs detected in 8 of 10 samples with 5 results > 1 ppm. 17 ppm PCBs found at 4-4.5 feet bgs All other detections below 5 ppm.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA
A0C-8	Oil USTs / C&D Pile	UST and C&D debris pile	Surface from C&D material pile or subsurface spill from UST.	25 ppm PCBs found at 3'-4' depth	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA
A0C-9	Railroad Spur & Soil Waste Accumulation Area	Railroad & soil waste accumulation area	Surface contamination from waste accumulation area. Surface release from railroad.	PCBs detected at concentrations greater than 1 ppm in 7 of 26 samples, all at depths of 1 to 5 feet bgs with a maximum concentration of 13 ppm. NAPL observed at northeast end of area with >100 ppm PCBs.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA

TABLE 1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24.1
PROPOSED PHASE II SAMPLING RATIONALE FOR SOLIDS

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-10	Berm Area	Used oil AST, cutting-oil covered swarf materials	Surface spill, release from adjacent railroad spur to the northeast	Previous investigation and remediation of PCB-impacted soils. 48 ppm PCBs present from 1 to 1.5 feet bgs along southeastern edge of berm area.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA
A0C-11	Railroad Spur	Railroad equipment and materials	Surface spills/lateral migration from MH-59	PCBs detected in soil adjacent to MH-59.	Additional assessment of soil around MH-59 needed to ensure 25 ppm cleanup criterion met.	Additional delineation is needed near TP-08.	3 soil borings 3 surface samples	0-0.5, 1-1.5, 3-4, 11-12 (or native clay)	Delineate horizontal and vertical extent of PCB concentrations around TP-08 area.
A0C-12	Steel Yard	Steel yard, storage of swarf material.	Surface contamination from residual cutting oils on swarf.	PCBs detected in soil at SB-51-20 and SB-53-20.	Additional assessment of soil around SB-51-20 and SB-53-20 needed to ensure 25 ppm cleanup criterion met.	Additional delineation is needed.	2 soil borings	1-1.5, 2-3, 3-4, 11-12 (or native clay)	Delineate horizontal and vertical extent of PCB concentrations around SB-51-20 and SB-53-20.
A0C-13	Front Forge / Hot Formers	Substation, shears and presses and drains.	Surface releases from transformers, surface and subsurface releases from shears and presses.	PCBs detected in soil at 3.3-3.5 in TP-02. Elevated PCBs in concrete.	Additional assessment of soil around TP-02 needed to ensure 25 ppm cleanup criterion met. Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Additional delineation is needed near TP-02, and surface impacts near central portion of the AOC.	5 Soil borings and 2 surface samples at boring locations. 5 additional surface soil samples to better delineate and characterize surface impacts. 7 additional concrete samples.	0-0.5, 1-1.5, 3.5-4, 4-5 and 11-12 (or native clay). *See below for concrete	Delineate horizontal and vertical extent of PCB concentrations around TP-02 area. Delineate extent of PCB surface soil impacts in central area of the AOC.
A0C-14	Former Die Room / C&D Pile	C&D pile Subsurface utilities	Surface spill, subsurface spill	Oily C&D pile removed in 2016. NAPL containing PCBs at 270 ppm identified in subsurface. PCBs > 25 ppm in impervious cover	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	Delineation appears adequate.	NA	NA
A0C-15	General Stores / Metal Lab Area	Laboratory, drill presses	Surface spill/subsurface spill from drill press sumps	PCB-containing wood block with black staining was observed within this area. Detection of 260 ppm PCBs along northwestern edge of area. PCBs > 25 ppm in impervious cover.	Additional concrete samples needed to delineate extent of PCBs in impervious cover.	Delineation appears adequate.	1 concrete sample	* See below for concrete	Additional concrete sample needed to delineate extent of PCBs in impervious cover.
Other	Loading Docks	Hydraulic lifts	Subsurface release of hydraulic oil possible.	No data exist.	No data exist.	Delineation appears adequate.	NA	NA	NA
Other	Net Gear Warehouse Area	Spills	Surface spill/subsurface spill	High PCBs detected at SF-16-20 beneath asphalt	Need additional data to delineate horizontal and vertical extent of PCB detection.	Delineation appears adequate.	4 soil borings	1-1.5, 3-4, 4-5, 11-12 (or native clay)	Delineate around PCB sample collected beneath asphalt that contained >100 ppm PCBs.
A0C-16	300 Ton Press & Cold Headers Area / C&D	Pile of C&D material, press	Surface spill from C&D pile. Release from press.	40 ppm detected in boring near former press.	No additional delineation needed.	Delineation appears adequate.	NA	NA	NA

Notes: ppm = Parts per million bgs = Below ground surface NA = Not applicable

* Surface samples for PCBs to be collected from 0 to 0.5 feet bgs in soil and 0 to 0.25 inches deep in concrete. Aliquots for SVOCs, TAL Metals, and Mercury to be collected between 0 and 2 feet. VOC aliquots to be collected at discrete 1 foot intervals.

All borings in the western (industrial) portion will be advanced to 12 feet below ground surface or native clay.

TABLE 2
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24.1
PHASE II ANALYTICAL PROGRAM

Analysis	Number of Samples	Field Dup	MS	MSD	Total number of analyses
SURFACE SOILS					
Target Compound List (TCL) PCB by SW846 Method 8082	14	1	1	1	17
TCL SVOCs by SW846 Method 8270 (AOC-01)	2	0	0	0	2
Arsenic by SW846 Method 6010 (AOC-01)	2	0	0	0	2
SOIL BORINGS					
TCL PCB by SW846 Method 8082	71	3	3	3	80
TCL SVOCs by SW846 Method 8270 (AOC-01)	27	2	2	2	33
Arsenic by SW846 Method 6010 (AOC-01)	27	2	2	2	33
IMPERVIOUS SURFACE					
TCL PCB by SW846 Method 8082	19	1	1	1	22
GROUNDWATER					
TCL PCB by USEPA Method 608.3	62	3	3	3	71
Dissolved (filtered) TCL PCBs by USEPA Method 608.3	62	3	3	3	71
PCB Homologs by USEPA Method 680*	20	1	1	1	23

*The number of samples is estimated. Analysis will be performed only on dissolved phase samples exceeding groundwater SCGs.

MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 3
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24.1
SAMPLE BOTTLE, VOLUME, PRESERVATION, AND HOLDING TIME SUMMARY

MATRIX/ANALYSIS	Analytical Method[1]	Sample Bottles				Minimum Vol Req'd	Preservation [2]	Holding Time [3]		Comment
		Material	Size	Qty	Source			Extraction	Analysis	
Soil Samples										
TCL PCBs	SW 846 8082A	G	4 oz	1	Lab	30 grams	None	14 days	40 days	
TCL SVOCs	SW 846 8270D	G	4 oz	1	Lab	30 grams	None	14 days	40 days	
Metals (Arsenic)	SW 846 6010D	G or HDPE	4 oz	1	Lab	10 grams	None	6 months	6 months	
Impervious Surface Samples										
TCL PCBs	SW 846 8082A	G	4 oz	1	Lab	30 grams	None	14 days	40 days	
Aqueous Samples										
TCL PCBs (total)	USEPA 608.3	G	1L	2	Lab	1L	None	7 days	40 days	
TCL PCBs (dissolved)	USEPA 608.3	G	1L	2	Lab	1L	None	7 days	40 days	filtered at collection with 0.45 micron in-line filter
PCBs Homologs (dissolved)	USEPA 680	G	1L	2	Lab	1L	pH 2-3, H_2SO_4	1 year	1 year	filtered at collection with 0.45 micron in-line filter

(1) More recent versions of analytical methods may be used subject to NYSDEC ELAP certification and approval.

(2) All samples for chemical analysis should be held at 4 degrees C in addition to any chemical preservation required.

(3) Holding time calculated from day of collection, unless noted as being from time of extraction. Holding time for analysis is from the date of extraction. It should be noted that the extraction holding time for Method 680 is 7 days from collection. However, due to the persistent nature of PCBs, the holding time requirements from USEPA Method 1668A - Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS and Method 1628 - Polychlorinated Biphenyl (PCB) Congeners in Water, Soil, Sediment, Biosolids, and Tissue by Low-resolution GC/MS using Selected Ion Monitoring is being applied.

G = Amber Glass HDPE = High-density polyethylene

SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. USEPA SW-846. Complete through Update IV, March 2009.

APPENDIX C
Site Specific Health and Safety Plan
December 2021 Update

Avalable Upon Request

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

PRE-DESIGN INVESTIGATION

WORK PLAN

WORK ASSIGNMENT D009803-24

TONAWANDA FORGE SITE OPERABLE UNIT 1 NO. 915274
2390 KENMORE AVE.
TONAWANDA (T), ERIE COUNTY, NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION
Remedial Bureau E

AECOM USA, Inc.
257 West Genesee Street
Suite 400
Buffalo, New York 14202

November 2020

TONAWANDA FORGE SITE
OPERABLE UNIT 1
SITE NO. 915274
ERIE COUNTY, NEW YORK

PRE-DESIGN INVESTIGATION WORK PLAN
WORK ASSIGNMENT D009803-24

Prepared for

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
625 BROADWAY, 12th FLOOR
ALBANY, NEW YORK 12233-7017

Prepared by

AECOM USA, INC.
257 WEST GENESEE STREET
SUITE 400
BUFFALO, NY 14202-2657

NOVEMBER 2020

TABLE OF CONTENTS

Page No.

1.0 INTRODUCTION 1-1
1.1 Site History and Background 1-1
1.1.1 Areas of Concern Descriptions 1-2
1.2 Previous Site Work and Investigations 1-5
1.2.1 Blasland, Bouck, & Lee, Inc. – December 1998 1-5
1.2.2 American Axle & Manufacturing – April 15, 1999 1-6
1.2.3 Blasland, Bouck, & Lee, Inc. – June 1999 1-6
1.2.4 Conestoga-Rovers & Associates – November 2000 1-7
1.2.5 Blasland, Bouck, & Lee, Inc. – October 2001 1-8
1.2.6 Blasland, Bouck, & Lee, Inc. – November 2004 1-9
1.2.7 Conestoga-Rovers & Associates – August 2003 1-10
1.2.8 Groundwater & Environmental Services, Inc. – October 2012 1-11
1.2.9 Remedial Investigation - URS Corporation – October 2012-2018 1-12
1.2.9.1 Site Conditions 1-12
1.2.9.2 Summary of RI Analytical Results 1-13
1.2.9.2.1 Asbestos Containing Materials Impacts 1-13
1.2.9.2.2 Surface Cover Impacts 1-14
1.2.9.2.3 Soil Impacts 1-14
1.2.9.2.4 Groundwater Impacts 1-14
1.2.9.2.5 Light Non-Aqueous Phase Liquid Impacts 1-15
1.2.9.2.6 Sewer System Impacts 1-15
1.2.9.2.7 Surface Water Impacts 1-16
1.2.9.2.8 Contaminant Fate and Transport 1-16
1.2.10 Interim Remedial Measures – January 2016 to May 2019 1-17
1.3 Overall Nature and Extent of Contamination Summary 1-17
1.3.1 Waste/Source Areas 1-17
1.3.1.1 Waste/Source Areas – Asbestos 1-18
1.3.1.2 Waste/Source Areas – LNAPL 1-18
1.3.1.3 Waste/Source Areas – Surface Materials 1-18
1.3.1.4 Waste/Source Areas – Sewer Sediments 1-19
1.3.2 Soil 1-19
1.3.3 Surface Water 1-19

1.4 Summary of the Selected Remedy: OU1 – On-Site Soil, Sewer Sediment and Surface Water Contamination 1-20

2.0 PRE-DESIGN INVESTIGATION 2-1

2.1 Asbestos Survey 2-1
2.2 Storm Sewer Water and Sediment Sampling 2-2
2.3 Surface/Subsurface Soil Contamination Delineation 2-2
2.4 Test Pits 2-3
2.5 Laboratory Validation 2-3
2.6 Investigation-Derived Waste Management 2-3
2.7 Engineering Survey 2-4

3.0 PRE-DESIGN INVESTIGATION REPORT 3-1

TABLES

Table 1 Historical Soil Results Summary
Table 2 Historical Surface Water Results Summary
Table 3 Soil Sampling Rationale
Table 4 Sewer Water, Sewer Sediment, and LNAPL Sampling Rationale
Table 5 Sample Analytical Program

FIGURES

Figure 1 Site Location
Figure 2 Historical Site Plan
Figure 3A Non-Aqueous Phase Liquid Analytical Results
Figure 3B Concrete and Asphalt Chip, Brick, and Wipe Samples PCB Analytical Results
Figure 3C Manhole Sewer Sediment Analytical Results
Figure 4 Total PCBs 0'-2' BGS
Figure 5 Total PCBs 2'-4' BGS
Figure 6 Total PCBs 4'-6' BGS
Figure 7 Total PCBs 6'-8' BGS

Figure 8	Total PCBs 8'-10' BGS
Figure 9	Total PCBs 10'-12' BGS
Figure 10	Total PCBs 12'-28' BGS
Figure 11	Total SVOCs 0'-2' BGS
Figure 12	Total SVOCs 2'-4' BGS
Figure 13	Total SVOCs 4'-6' BGS
Figure 14	Total SVOCs 6'-8' BGS
Figure 15	Total SVOCs 8'-10' BGS
Figure 16	Total SVOCs 10'-12' BGS
Figure 17	Total SVOCs 12'-28' BGS
Figure 18	Surface Water Control
Figure 19	Proposed Sampling Boring Locations
Figure 20	Proposed Sewer Water, Sediment, Surface Water, and LNAPL Sample Locations

PLATES

Plate 1	Sewer System
Plate 2	RI Sampling Locations

APPENDICES

Appendix A	Generic Field Activities Plan
Appendix B	Generic Quality Assurance Project Plan
Appendix C	Site Specific Health and Safety Plan
Appendix D	Immunoassay Results

LIST OF ABBREVIATIONS/ACRONYMS

ACM	Asbestos containing material
AECOM	AECOM USA, Inc.
AHERA	Asbestos Hazard Emergency Response Act
AAM	American Axle & Manufacturing
AOC	Area of Concern
AST	Aboveground Storage Tank
BB&L	Blasland, Bouck, & Lee, Inc.
bgs	below ground surface
C&D	construction and demolition
CB	catch basins
CFR	Code of Federal Regulations
cm	centimeters
cm^2	square centimeters
CRA	Conestoga-Rovers & Associates
cy	cubic yards
DER	Division of Environmental Remediation
DO	dissolved oxygen
Drawings	Remedial Construction Contract Drawings
DUSR	Data Usability Summary Report
ECM	Erosion Control Measure
ESA	Environmental Site Assessment
ELAP	Environmental Laboratory Approval Program
FS	Feasibility Study
GES	Groundwater Environmental Services)
g/kg	grams per kilogram
GM	General Motors
GM ER & IES	GM Worldwide Facilities Group, Environmental Remediation and International Environmental Support
gpm	gallons per minute
IDW	investigation-derived waste
IRM	Interim Remedial Measure
IW	industrial waste
IWTP	Industrial Waste Treatment Plant
mg/kg	milligrams per kilograms
µg/L	micrograms per liter
mg/L	milligrams per liter
LNAPL	Light Non Aqueous Phase Liquid
MH	manhole
MS4	Municipal Separate Storm Sewer System
NYCRR	New York Codes, Rules and Regulations,
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOL	New York State Department of Labor
OSHA	Occupational Safety and Health Administration
OD	outside diameter
OM&M	Operation, Maintenance and Monitoring

ORP	oxidation reduction potential
OU	operable unit
PCB	polychlorinated biphenyl
PDIWP	Pre-Design Investigation Work Plan
PLM	polarized light microcopy
POTW	publicly owned treatment works
ppb	parts per billion
ppm	parts per million
PVC	polyvinyl chloride
ROD	Record of Decision
ROI	radius of influence
ROW	rights-of-way
SACM	Suspect Asbestos Containing Materials
SCG	standards, criteria, and guidance value)
SCO	Soil Cleanup Objective
SGV	Sediment Guidance Values
SPDES	State Pollution Discharge Elimination System
SSAs	storm sewer areas
SVOC	semi-volatile organic compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristics Leaching Procedure
TEM	transmission electron microscopy
TOGS	Technical and Operational Guidance Series
TSCA	Toxic Substances Control Act
TSS	total suspended solids
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1.0 INTRODUCTION

This Pre-Design Investigation Work Plan (PDIWP) presents the design rationale, criteria, and analysis for a remedial design at Operable Unit Number 1 (OU1) of the Tonawanda Forge Site (Site No. 915274) located in Tonawanda, New York (Figure 1). This document presents the scope, site background, approach, and description of the remedial alternative selected for remediation of OU1 in accordance with the New York State Department of Environmental Conservation (NYSDEC) Amended Record of Decision (ROD) dated March 2020. This PDIWP includes a companion Generic Field Activities Plan (FAP), Generic Quality Assurance Project Plan (QAPP), and a site specific Health and Safety Plan (HASP), which are included as Appendices A through C, respectively.

1.1 Site History and Background

The Tonawanda Forge Site (Site) is located in Tonawanda, Erie County, New York (Figure 1). The Site is listed as a Class 2 Inactive hazardous waste site; Site No. 915274 in the New York State Registry of Hazardous Waste Sites. The 34.8 acre Site is zoned for industrial use and is approximately 2,300 feet southeast of the intersection of Kenmore Avenue and Sheridan Drive. The site contains 2 parcels. Parcel 1 is 33.2 acres. Parcel 2 (AOC-7 and AOC-8) is 1.6 acres. The Site is relatively flat and primarily covered with asphalt, concrete and former building foundations and four buildings. The eastern portion of the Site, identified as (Area of Concern) AOC 1, is a grass covered landfill with an elevation approximately 6 feet above the surrounding grade. AOC-1 is also referred to as the "Front Forty".

The Site has areas of standing water following precipitation and snow melt. The standing water is the result of previous plugging of the storm sewer system at downgradient locations to inhibit the flow of contamination offsite. As part of previous work activities, a number of manholes, catch basins, and some sewer line sections have been plugged at several locations across the Site. As a result, water ponds in several areas following rain events or snow melt.

The property was originally part of the GM-Tonawanda Engine Plant (GM-Tonawanda) facility that borders the Site to the north, west, and south. The property originally consisted of four separate on-site buildings: 1) Forge building; 2) Heat Treating building; 3) Maintenance/Die Shop building; and 4) Office building. Over time, the Forge building, Heat Treating building, and Maintenance/Die Shop building were combined under a common roof into one building where the manufacturing operations were performed. Over the operational history of the facility, additional buildings were added at the Site, including an Oil Pump House (aka: Environmental Building), Cafeteria/Locker room, Air Compressor building, Maintenance Storage Facility, and Net Shape Gear Warehouse. A historical site plan is shown on Figure 2.

In 1994, GM sold the Site to American Axle & Manufacturing (AAM) who performed the forging and manufacturing of automotive parts at the Site. In 2008, AAM sold the Site to the current owner, Lewis Brothers, LLC (Lewis), of Richmond, Virginia. Upon sale of the Site, Lewis began the demolition of the Site buildings that formerly housed the manufacturing operations, starting with the removal of the interior equipment and ending with the removal of the buildings' entire superstructure.

Upon the owner's refusal to address petroleum contamination on the Site in violation of a stipulation agreement with the NYSDEC, the NYSDEC proceeded with remediation of contamination under Spill Site number 0944809. During demolition there was a release of polychlorinated biphenyls (PCBs) from two transformers on December 19, 2011. Upon the Owner's refusal to address the spill the NYSDEC instituted clean-up procedures under Spill Site number 1112690.

Currently, the only structures remaining on the Site are the Office building, Cafeteria/Locker room, Environmental Building, and Net Shape Gear Warehouse. The majority of the western portion of the Site consists of former building floor slabs, parking lots, and driveways. A large grassed area in the eastern part of the Site, bordered by Kenmore Avenue, is a former fill and disposal area that was re-graded and capped. This area, commonly known as the "Front Forty", was designated as AOC-1 during the Remedial Investigation.

1.1.1 Areas of Concern Descriptions

Based upon a review of historic documents, drawings, and previous investigations, sixteen potential Areas of Concern (AOCs) were identified at the Site (see Figure 3A). The sewer network (Plate 1), which includes storm water, sanitary, and industrial waste (IW) lines and ducting, was also investigated. Each AOC and the sewer network were investigated to determine if historic activities at the Site and/or releases of PCBs during Site demolition activities by the property owner have adversely impacted the environment. A description and rationale for each AOC and the sewer network is given below.

AOC-1: ECM Area (i.e., Front Forty)

AOC-1 consists of the Front Forty located between Kenmore Avenue and the main parking lot and originally contained railroad spurs. Aerial photographs indicate that dumping/grading activity appears to have been performed in the vicinity of the railroad spurs. Between 1998 and 2000, GM installed sewer bulkheads and instituted an Erosion Control Measures (ECM) to prevent PCB-impacted soils and sediment from entering the storm sewer system. The ECM activities included regrading and capping PCB-impacted soils. The presence of PCB-impacted soils in the Front Forty has been documented by BB&L (BB&L, December 1998) and GES (GES, October 2012). Remedial investigation (RI) field activities were conducted in AOC-1 to determine the potential sources of the PCBs detected in the soils and to investigate the potential impacts of PCBs to groundwater beneath the AOC.

AOC-2: Former PCB Spill and Affected Area

AOC-2 consists of the main corridor that runs the length of the former Forge building. The surface of AOC-2 was impacted by a PCB oil spill from damaged electrical transformers during the demolition of the building. RI field activities were conducted in AOC-2 to investigate the potential impacts of the PCB oil spill and historic activities to the brick and concrete surface, soils, and groundwater within/beneath the AOC.

AOC-3: Relay Rod Area

AOC-3 consists of the former relay rod area that had oil pits and trenches throughout the area. Manholes and piping in the relay rod area historically had PCB detections prior to the PCB transformer spill in December 2011. RI field activities were conducted in AOC-3 to investigate the potential impacts of historic activities to the concrete surface, soils, and groundwater within/beneath the AOC.

AOC-4: Truck Repair/Maintenance

AOC-4 consists of the former truck repair/maintenance area (formerly the Electrical Crib). Previous maintenance activities performed in AOC-4, when it was used as the Electrical Crib, may be the source of detections of PCBs in oil, sludge, and water samples collected by AAM in July 1998. A sample collected by GES from a sump in the truck repair/maintenance area contained concentrations of PCBs greater than 50 mg/kg. RI field activities were conducted in AOC-4 to investigate the potential impacts of historic activities to the concrete surface, soils, and groundwater within and beneath the AOC.

AOC-5: Basement & Quench Oil Pump Pits

The AOC-5 consists of an area that was used as the heat treatment area and formerly contained a basement and quench oil pump pits. Due to the heat treating operations that were performed in AOC-5, there is a potential for petroleum impacts to the soils and groundwater underneath the AOC. The former basement and quench oil pump pits were backfilled and covered with concrete at some time during the operation of the Site by GM or AAM, prior to the demolition of the Forge building. It is unknown if the basement and quench oil pump pits were cleaned prior to backfilling or the type of the material used for backfilling. RI field activities were conducted in AOC-5 to investigate the potential impacts of historic activities to the concrete surface, soils, and groundwater within/beneath the AOC.

AOC-6: Waste Treatment Area, Lift Station, & Waste Storage Area

AOC-6 contains the waste treatment area, sanitary sewer lift station, and a waste storage area. The waste treatment area was used to treat the IW collected in various trenches and pits and conveyed to the waste treatment area via overhead piping. IW was discharged from the overhead piping into an oil/water separator containing two basins. The north basin was the first chamber where oil/graphite was skimmed off; the south basin was the second chamber that went to the sanitary sewer lift station. An active skimmer was used to remove oil/graphite (the skimmer is still present) which was then transferred to the two, approximately 1,500 gallon aboveground storage tank (ASTs) located to the south of the second chamber. After exiting the second chamber, the effluent entered the lift station and was then conveyed to the sanitary sewer system. The ASTs and associated piping are covered with potential asbestos-containing material (ACM). The area south of the ASTs contains a concrete pad equipped with drains and was used to store drums of oil and other wastes. RI field activities were conducted in AOC-6 to investigate the potential impacts of historic activities to the concrete surface, soils, and groundwater within/beneath the AOC. An inspection and sampling of the two ASTs within AOC-6 was also performed.

AOC-7: Environmental Building (Former Oil Pump House)

AOC-7 consists of the Environmental building. This building was the former oil pump house associated with the underground storage tank (UST) farm located in AOC-8. The building later housed hazardous waste and includes exterior areas located to the east, west, and north of the building where drum storage took place. A spill pad/bermed area is located on the northwest side of building. RI field activities were conducted in AOC-7 to investigate the potential impacts of historic activities to the soils and groundwater within and beneath the AOC.

AOC-8: Oil USTs/C&D Pile

AOC-8 consists of the area that formerly contained up to 18 25,000-gallon USTs. At the time of the Phase I RI, most of the area was covered by a 4,000 cubic yard (cy) pile of construction and demolition (C&D) debris up to 15 feet high. An aerial photograph shows the former presence of an Air Compressor building and a Maintenance Storage Facility building over portions of the former tank farm area. A review of the EDR Radius Search indicated that 13 24,722-gallon USTs were decommissioned and removed from the Site in February 1991. It is likely that these 13 USTs were located in AOC-8.

RI field activities were conducted in AOC-8 to investigate the potential impacts of historic activities to the soils and groundwater within and beneath the AOC. The Phase I RI field activities during were limited due to the presence of the 4,000 cy pile of C&D debris. The C&D debris pile was removed between October 12, 2015 and February 9, 2016 as part of the interim remedial measure (IRM) performed by The Environmental Services Group (NY), Inc. (ESG) under New York State Contract No.D009634.

AOC-9: Railroad Spur & Solid Waste Accumulation Area

AOC-9 consists of the area that formerly contained a railroad spur and used to store equipment. Investigations in this area by CRA and AAM (CRA, November 2000) indicated the presence of PCBs in subsurface soils. RI field activities were conducted in AOC-9 to investigate the extent of known PCB impacts to the soils and groundwater within/beneath the AOC.

AOC-10: Berm Area

AOC-10 consists of a berm area that contained two sloped concrete berms with a barrier wall, drain, pump house, and a used oil AST. The purpose of the berm area was to facilitate the collection of oil from machinery and swarf. After oil was collected, it was pumped into the AST pending disposal.

GM performed an excavation of this area in 1998 (BB&L, December 1998) to remove PCB-impacted soils. In addition, an investigation by CRA of the former railroad lines and railroad spurs located to the south and north of AOC-10, respectively, indicated the presence of PCBs in subsurface soil down to 12 feet below ground surface (bgs) (CRA, November 2000). RI field activities were conducted in AOC-10 to investigate the extent of known PCB impacts to the soils and the potential impacts to groundwater within and beneath the AOC.

AOC-11: Railroad Spur

AOC-11 consists of the location of a former railroad spur located along the southern property line. Investigations in this area by CRA and AAM (CRA, November 2000) indicated the presence of PCBs in surface and subsurface soils. RI field activities were conducted in AOC-11 to investigate the extent of known PCB impacts to the soils within and beneath the AOC.

AOC-12: Steel Yard

AOC-12 consists of the former steel yard where steel was unloaded and stored prior to being used in the forging process. Previous investigations indicated that the presence of PCBs in subsurface soils (BB&L, December 1998) was attributed to the historic storage of swarf material in the area in the vicinity of MH-52. RI field activities were conducted in AOC-12 to investigate the extent of known PCB impacts to the soils and potential impacts to groundwater within and beneath the AOC.

AOC-13: Front Forge/ Hot Formers

AOC-13 consists of the area that formerly contained the front Forge area and hot former pit. Samples of oil collected by GES from this area indicated the presence of PCBs (GES, October 2012). PCBs were detected in samples collected from the IW lines, hot former pits, and catch basins during sampling conducted in July of 1998 (BB&L, June 1999). RI field activities were conducted in AOC-13 to investigate the extent of PCB impacts to the soils and potential impacts to groundwater beneath the AOC.

AOC-14: Former Die Room/C&D Pile

AOC-14 consists of the area that formerly contained the die room. A 700 cy milled pile of C&D material was located in this AOC. URS observed a black oily substance oozing from the base of the C&D pile and a sheen was present on standing water adjacent to the black oily substance. RI field activities were conducted in AOC-14 to investigate the potential impacts of historic activities to the surface within the AOC. The Phase I RI field activities during were limited due to the presence of the 700 cy pile of C&D debris and the presence of standing water over a majority of the AOC surface. The C&D debris pile which included the

bulk solid material sampled during the Phase I RI was removed between October 12, 2015 and February 9, 2016 as part of the IRM performed by ESG under New York State Contract No.D009634.

AOC-15: General Stores/Metal Lab Area

AOC-15 consists of the area that formerly contained the metal lab and a general storage area. During a URS visit to the property on July 30, 2013, suspected PCB-containing wood block was observed within this area, as was a black oily substance on the surface. RI field activities were conducted in AOC-15 to investigate the potential impacts of historic activities to the surface and soils within and beneath the AOC.

AOC-16: 300 Ton Press & Cold Headers Area/C&D Pile

AOC-16 consists of the area that formerly contained the 300 ton press and cold headers. A 200 cy pile of C&D material occupied the northwest corner of AOC-16. Soil samples collected by GES from within AOC-16 contained concentrations of PCBs greater than 50 mg/kg (GES, October 2012). During a URS visit to the property on July 30, 2013, four piezometers (PZs) and one monitoring well were noted in AOC-16. These piezometers were not previously identified by GES.

During the July 2013 Site visit, significant staining was noted on the concrete surface. RI field activities were conducted in AOC-16 to investigate the extent of known PCB impacts to the soils and potential impacts to the concrete and groundwater within/beneath the AOC. The Phase I RI field activities in the AOC were limited due to the presence of the 200 cy pile of C&D debris in the northern/northwestern portion of the AOC. The C&D debris pile was removed between October 12, 2015 and February 9, 2016 as part of the IRM performed by ESG under New York State Contract No.D009634.

1.2 Previous Site Work and Investigations

1.2.1 Blasland, Bouck, & Lee, Inc. – December 1998

In December 1998, Blasland, Bouck, & Lee, Inc. (BB&L) submitted the Interim Corrective Measures Letter Report - Addendum I, American Axle & Manufacturing (AAM) Tonawanda, NY Forge Plant (BB&L, December 1998) to the NYSDEC – Region 9 on behalf of General Motors (GM) Worldwide Facilities Group, Environmental Remediation and International Environmental Support, of Detroit, Michigan (GM ER & IES). The report summarized the results of an investigation and the corrective actions taken to address possible sources of PCBs in the AAM storm sewer system. Sewer system manhole locations can be found on Plate 1.

The following activities were performed at the Site as part of the investigations and corrective actions: historical records were reviewed in an attempt to determine potential sources of PCBs in the storm water; a soil investigation conducted in the vicinity of portions of the storm sewer system and manholes (MH); storm sewer cleaning was performed; portions of the sewer system were retrofitted; a storm sewer video inspection was performed; and storm sewer sampling events were conducted during the months of October, November, and December 1998. Results of these activities are discussed below.

An October 1998 storm sewer sampling indicated that PCB concentrations in storm water were not related to non-contact cooling water but were possibly the result of sediment and residue present in the piping.

A soil investigation was performed along the previously identified compromised storm sewer lines beneath the Forge area (i.e., manholes MH-51, MH-52, and MH-53) and beneath the southern access road (i.e., manholes MH-58, MH-59, and MH-60). The area in the vicinity of MH-52 had historically been used for the storage of swarf materials (i.e., metal turnings, cuttings, grindings, and chips, usually covered with cutting oil). The investigation indicated the presence of PCBs in subsurface soils.

A November 1998 sewer pre-cleaning sampling event was performed. Results indicated the primary areas of concern appeared to be at manhole locations MH-53-2, MH-53-3, MH-56, and MH-64. Storm sewer cleaning was performed between November 12 and 25, 1998 along 37 sewer intervals. A post-cleaning video inspection was made and several cracks and collapsed sections of piping were identified.

Between November 12 and 25, 1998, sewer lines deemed unnecessary were removed from the storm sewer system by installing bulkheads. The majority of the bulkheads installed were within the catch basins (CBs) located in the "Front Forty", which is the term for the approximately 7.5 acres of undeveloped area that was located between Kenmore Avenue and the main parking lot. A post-cleaning sewer sampling event was performed in December 1998 and indicated that concentrations of PCBs in the AAM storm sewer system had been significantly decreased.

1.2.2 American Axle & Manufacturing – April 15, 1999

On April 15, 1999, AAM submitted a letter titled AAM Industrial Waste System (AAM, April 15, 1999) to the NYSDEC – Region 9. The letter indicated that AAM had performed cleaning and inspections of two IW lines running the length of the Forge building. The cleaning included associated manholes, the hot former pits, and catch basins.

The results of a March 1999 sampling event indicated two sample locations from the IW lines, associated manholes, hot former pits, and catch basins with elevated PCBs (CB @ S-23 and IWP-HF#4).

1.2.3 Blasland, Bouck, & Lee, Inc. – June 1999

In June 1999, BB&L submitted the Interim Corrective Measures Letter Report - Addendum II, American Axle & Manufacturing Tonawanda, Tonawanda Forge Plant, Tonawanda, New York (BB&L, June 1999). The report summarized the storm sewer and industrial cleaning activities, storm sewer sampling, bulkhead installation, and inspection and repairs recommended and performed since the Addendum I report was submitted by BB&L in December 1998. The report covers the time period of December 1998 through March 1999.

In December 1998, storm sewer lines between manholes MH-58, MH-59, and MH-60 and MH-83 and MH-84 were cleaned and video inspected following the cleaning. Previous sampling events had detected PCBs in these manholes and video inspections had shown compromises to the storm sewer lines.

Additional bulkheads were installed in manholes and sewer lines within both the Forge area and the Front Forty between December 1998 and February 1999.

A storm sewer sampling event was performed in February 1999 to evaluate the results of the December 1998 cleaning event. Post-cleaning sampling indicated that PCBs were present in water from storm sewer lines between manholes MH-51 through MH-53 and MH 58 through MH-60. The source of the PCBs was suspected to be from damaged sewer lines being impacted by surrounding PCB-containing soils. In addition, a review of plant drawings by BB&L indicated that some manholes were connected to laterals

from roof conductors used to convey rainwater from the roof to the storm sewer system. PCB-containing transformers and electrical substations located on the roof in the vicinity of the roof conductors were identified as potential sources of PCBs.

The results of repeated cleaning, video inspection, and storm sewer sampling events identified six storm sewer areas (SSAs) as potential sources of PCBs.

BB&L performed an engineering study to determine potential repair/replacement methods for some of the impacted sewer lines. Additional investigations were proposed for the remaining sewer lines.

In the report, BB&L summarized the following remedial activities performed at the Site by AAM:

- During December 1998, AAM performed cleaning and inspections of two IW lines, the hot former pits, and catch basins (currently identified as AOC-13) which had been used to collect industrial waste generated during the forging process. The cleaning performed in December 1998 was in response to PCBs being detected in samples collected from the IW lines, hot former pits, and catch basins during sampling conducted by AAM in July of 1998. Although the IW lines, hot former pits, and catch basins were not suspected as potential sources of PCBs to the storm sewer, they were cleaned to eliminate possible PCB sources to AAM's Industrial Waste Treatment Plant (IWTP) because the IW lines were connected with overhead piping within the Forge to the IWTP.

- Three IW catch basins located in the truck repair area (formerly the Electrical Crib, currently identified as AOC-5) were used to contain used motor oils and lubricants. The three IW catch basins were connected with overhead piping within the Forge to the AAM IWTP. BB&L concluded that previous maintenance activities performed in the Electrical Crib may have led to detections of PCBs in oils, sludges, and wastewater samples collected by AAM in July 1998. The cleaning activities performed on the IW lines, hot former pits, and catch basins reduced PCB-containing oils and sludges from the IW system.

1.2.4 Conestoga-Rovers & Associates – November 2000

In November 2000, Conestoga-Rovers & Associates (CRA) submitted a report to GM ER & IES titled the *Historic and Active Railroad Drainage Line Subsurface Investigation,* Powertrain Group, Tonawanda Engine Plant, Tonawanda, New York (CRA, November 2000). The report summarized an investigation of the railroad drainage lines at the GM-Tonawanda facility that was performed to determine if they were a contributing source of PCBs to the storm water discharge to State Pollution Discharge Elimination System (SPDES)-permitted Outfall 001. The railroad drainage lines are tied into the storm water sewer system. The report also provided a summary of the site background with regard to railroad drainage lines and past site activities which included the Site.

Between March 8, 1999, and April 6, 1999, 296 direct push soil borings were advanced along existing and historical railroad tracks. Soil samples were collected from the ground surface to 12 feet bgs and screened for PCBs using EnviroGard® Immunoassay PCB in Soil Test Kits. The PCB screening consisted of a comparison between the samples and the PCB standards at concentrations of 1 part per million (ppm), 5 ppm, 10 ppm, and 50 ppm. Approximately 5 percent of the samples collected were sent off-site for confirmation analytical testing for PCBs by USEPA Method 8082. Immunoassay results shown in Appendix D.

Soil sample results indicated the presence of PCBs with concentrations greater than 50 ppm in soils at depths down to 12 feet bgs along the property line in the southwest corner of the Site. The maximum concentration of PCBs in samples sent off-site for confirmation analytical testing was 180 ppm.

Soil sample results also indicated the presence of PCBs with concentrations greater than 50 ppm in areas of compromised sewer system lines in the Forge area, southern access road, and along the former railroad spur located along the Site's southern property line.

1.2.5 Blasland, Bouck, & Lee, Inc. – October 2001

In October 2001, BB&L submitted a report titled Interim Corrective Measures Letter Report - Addendum III, American Axle & Manufacturing, Tonawanda Forge Plant, Tonawanda, New York (BB&L, October 2001) to the GM ER & IES. The report summarizes the results of an additional storm sewer assessment, an investigation of the Front Forty area, and the implementation of ECMs in the Front Forty area.

Various investigations related to the presence of PCBs in the storm sewers were performed in 1999. PCB-containing transformers were known to be present on the roof of the AAM facility. Sampling was performed on the roof of the AAM facility to determine if the roof was a source of PCBs that were being carried by rainwater via roof conductors, to the storm sewer. Analytical results indicated the presence of PCB concentrations ranging from 0.14 micrograms per liter (µg/L or parts per billion [ppb]) to 1.09 µg/L. It was determined that the roof was a contributing source of PCBs to the storm sewers.

In February, August, and September 1999, sampling was conducted to determine if the Front Forty was a potential source of PCB-impacted sediment-laden runoff. Analytical results indicated a contribution of PCBs to the storm sewer system from runoff originating from the Front Forty.

In October 1999, a PCB/suspended solids study was performed to identify potential sources of the PCBs observed in storm water in relation to suspended solids, oil and grease, and changes in weather. BB&L concluded that PCB detections were associated with PCBs adsorbed to suspended solids and not dissolved PCBs in the water or in oil and grease. Also, BB&L concluded that rainfall and wind conditions may have impacted the total suspended solids (TSS) and turbidity resulting in elevated PCBs detections in storm water.

An ECM was implemented in the Front Forty between March and October 2000 to reduce PCB storm water issues in SSA-3 and SSA-4, which are located along the northern Site boundary and in the main parking lot, respectively. In May 2000, six percolation test pits were excavated in the Front Forty to assess the potential for the subsurface soils to percolate or retain water. A 1- to 2-foot thick fill layer was encountered over a clay layer and no water was encountered. It was determined that the soils below the fill layer had minimal percolation capacity. In May and June 2000, 57 direct push soil borings were advanced. Soil samples were collected until native material was encountered. The fill was encountered down to 8 feet bgs. Soil samples of the fill material were field screened with EnviroGard® Immunoassay PCB in Soil Test Kits. Results indicated the presence of PCBs in the fill material at concentrations greater than 50 ppm at depths down to 6 feet bgs. Soil samples were not collected from the native material found below the fill material. Immunoassay results are shown in Appendix D.

The implementation of the Front Forty ECM was performed between March and October 2000. The ECM activities included:

- A pre-construction topographic survey and two subsequent construction surveys to establish grade control for earthwork activities.
- The leveling of existing on-site soil and C&D debris piles. The C&D piles were consolidated and buried below final grade.
- An area of slag was excavated, crushed and re-graded within the Front Forty.
- Approximately 3,413 cubic yards (cy) of Type S1 common fill was imported, placed and compacted to achieve necessary design elevations. The Type S1 consisted of a dark brown sandy silty clay soil.
- A perimeter berm was constructed using a combination of on-site soil and imported Type S1 fill.
- A stone-lined low area was constructed. On-site excavated soils from the stone-lined low area were used to construct the eastern berm on the Front Forty.
- An earthen spillway was constructed along the northern berm to allow for drainage of storm water runoff from the Front Forty into manhole MH-85. The spillway invert and side slopes were lined with erosion control matting and the surfaces downstream of the invert were lined with riprap underlain with geotextile fabric.
- Approximately 5,650 cy of topsoil was imported, and a 4-inch thick lift was placed over the Front Forty area.
- A maintenance access road and turn around were constructed in the northwest corner of the Front Forty.
- The topsoil was hydro seeded.
- Erosion control matting was installed on the side slopes of the perimeter berm and along the centerline of the drainage swales.

Between August and October 2000, storm sewer cleaning was performed in SSA-3 and SSA- 4 to address sediments and debris related to the Front Forty. In addition, select storm sewer lines and the inlet formerly associated with the Front Forty were abandoned in-place. Post-ECM storm sewer sampling indicated that the ECM implemented in the Front Forty was successful in reducing PCB impacts to the storm sewer.

1.2.6 Blasland, Bouck, & Lee, Inc. – November 2004

In November 2004, BB&L submitted a report titled *2002 Investigation and Response Activities Summary Report, American Axle & Manufacturing Tonawanda, NY Forge Plant* (BB&L, November 2004) to the GM ER & IES. The report summarized the results of an additional storm sewer investigation and storm sewer response activities completed in 2002.

A storm water sampling program was conducted during May 2002. Between May 10 and May 17, 2002, 144 samples were collected from seven locations. Storm water sampling results indicated that the average concentration of PCBs was 0.040 µg/L, with a maximum PCB concentration of 0.32 µg/L at manhole MH-55.

As part of the storm sewer response activities, an 8-foot section of collapsed pipe located near manhole MH-52 was repaired. This repair was made to reduce the amount of PCB-impacted soil surrounding the pipe entering the storm sewer system. In addition, the manhole was raised by approximately 4 inches and a solid manhole cover installed to reduce any PCB-impacted soil from entering the manhole. Due to the observation of oil in manhole MH-58, in June 2002 manhole MH-58 was cleaned, select laterals were abandoned, and a sealant was applied to the inside of the manhole. The purpose of the sealant was to mitigate the seepage of oil into the manhole from surrounding soils.

Storm sewer cleaning and videotaping was performed in July 2003. The purpose was to remove potentially PCB-impacted sediments and debris from the storm sewer lines. During the video inspection the following observations were made:

- Some production-related material entered MH-57 from an extruder machine;
- Several cracks in pipe sections were noted between MH-51 to MH-52, MH-58 to MH-59, and MH-59 to MH-60;
- Moderate staining was noted between MH-59 and MH-60;
- Hardened debris was present in pipe sections from MH-56 to MH-55 and MH-55 to MH-54; and
- Black sludge/tar like material was observed throughout pipe sections from MH-54 to MH-78 and MH-78 to MH-77.

1.2.7 Conestoga-Rovers & Associates – August 2003

In August 2003, CRA submitted a report titled *Re-Routing and Abandonment Certification Report, Storm Sewer Segment from Manholes MH-54 and MH-76*, General Motors Powertrain Group, Tonawanda Engine Plant, Tonawanda, New York (CRA, August 2003) to GM ER & IES.

The report summarizes the sampling, investigations, replacement and abandonment of pipe sections from MH-54 to MH-78 and MH-78 to MH-77. In the pipe sections from MH-54 to MH-78 and MH-78 to MH-77, swarf material (material produced by machining operations) and a black sludge/tar like material were identified during a July 2003 storm sewer cleaning and videotaping. Analytical results of the swarf and black sludge/tar indicated both materials were impacted by PCBs ranging in concentrations from 1.47 ppm to 4,000 ppm. Subsequent cleanings were able to remove the swarf material by dry vacuuming, but the tar-like material could not be removed. Following the cleaning, GM experienced three consecutive water quality exceedances for PCBs at SPDES permitted Outfall 001. As a result of the exceedances, a bypass pumping system was set up at manhole locations (MH-54, MH-78, and MH-77) to eliminate flow through the pipe sections containing the tar-like materials. Based on an engineering evaluation, it was determined that the most effective solution was to re-route the sewer system upstream of the impacted areas by installing new sewer lines and abandoning in-place the impacted lines.

A direct-push investigation was performed in September 2002. The purpose of the investigation was to determine if PCB-impacted materials had migrated to the exterior of the existing sewer lines, and to pre-characterize soil in the areas where the new sewer lines would be installed for off-site disposal. Analytical results indicated that PCB-containing material located within the storm sewer pipes had not migrated to the exterior of the pipes.

An analysis was performed on the tar-like material and results did not exceed any of the leachable guidelines in 40 Code of Federal Regulation (CFR) Part 761 or 40 CFR Part 260. Based upon the results, the USEPA and NYSDEC concurred that abandonment of the PCB-containing material in-place using a non-erodible cement grout was an acceptable alternative to removal.

Between August 19, 2002, and September 7, 2002, the bypass at MH-54 was installed, connecting MH-54 to the GM Plant #4 mainline storm sewer. Between September 9, 2002, and September 23, 2002, the bypass at MH-78 was installed, connecting MH-78 to drop inlet DI-LH. Between September 11, 2002, and October 2, 2002, the bypass at MH-77 was installed, connecting MH-77 to MH-76.

On October 2, 2002, the storm sewer lines that ran from MH-54 to MH-76 were abandoned by backfilling with cement bentonite grout.

1.2.8 Groundwater & Environmental Services, Inc. – October 2012

In October 2012, Groundwater Environmental Services (GES) submitted a report titled *Limited Environmental Site Assessment and Site Activities Summary Report*, Tonawanda Forge, 2309 Kenmore Avenue, Tonawanda, New York 14207, NYSDEC Spill #0911809, NYSDEC Spill #1112690 (GES, October 2012) to the NYSDEC. The purpose of the limited Environmental Site Assessment (ESA) was to assess potential environmental conditions identified during numerous field visits, sampling events, and site investigations performed by GES at the Site. In addition to the ESA, GES was tasked by the NYSDEC with documenting various remedial activities being performed at the Site by Lewis' demolition contractor and other NYSDEC contractors.

The GES ESA was performed from August 2011 through September 2012. Based on the activities that were performed and documented during the ESA, the following observations and conclusions were made by GES:

Solid Samples

PCBs have impacted various solid materials at the Site which include concrete/brick found on the floor of the Forge building and wooden brick portions of the floor of the Forge building. Wipe and bulk samples from concrete/brick found on the floor of the Forge building indicated the presence of PCBs at concentrations ranging from non-detect (ND) to 280 milligrams per kilogram (mg/kg or ppm). Bulk samples from the wooden brick flooring material, indicated the presence of PCBs at concentrations ranging from 0.56 to 29 mg/kg. Because of these detections, the wooden brick flooring was removed from the Site. The bulk sample locations were later removed via milling of the concrete.

Subsurface Soils

PCBs were detected in subsurface soil beneath the former Forge building and in the Front Forty. PCBs in the subsurface soils beneath the former Forge building ranged from ND to 290 mg/kg at depths from 1 foot to 12 feet bgs, with the highest concentrations being detected in the fill material which was on average approximately 3 feet thick. PCB impacts were generally not detected in the native clay till underlying the fill material and if they were detected in the clay, they were two to three orders of magnitude lower than the concentrations found in the fill material. The highest concentrations of PCBs in the subsurface soils beneath the former Forge building occurred in the vicinity of the 300 ton presses (i.e., Tie Rod Socket area).

PCB-impacted soils were detected in subsurface soil beneath the Front Forty. PCBs in the subsurface soils at depths from 2 feet to 8 feet bgs ranged from ND to 69 mg/kg detected in the fill material, which was on average approximately 6 feet thick. PCBs were not detected in the native clay till underlying the fill material.

Groundwater

Groundwater samples collected from six new and one existing monitoring well indicated the presence of only common laboratory contaminants [acetone and bis(2-ethylhexyl)phthalate] in three of the seven monitoring wells. Semi-volatile organic compounds (SVOCs), metals, and PCBs were not detected in the groundwater samples collected.

Surface Water

Surface water samples were collected from the Front Forty ponded area and the flooded driveway/parking area. The surface water sample collected from the Front Forty ponded area indicated

concentrations below applicable NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for surface waters, with the exception of acetone. Surface water samples collected from the flooded driveway/parking area by both Titan and GES exceeded NYSDEC TOGS 1.1.1 values for PCBs and ranged from 3.9 to 350 µg/L.

Manhole Water

Water samples were collected from two manholes (MH-1 and MH-2) adjacent to the PCB oil spill area. Analytical data showed concentrations of PCBs that ranged from 7.99 to 1,254 µg/L.

PCB Oil Spill Cleanup

A total of 37 wipe and seven bulk samples were collected prior to remedial activities in the PCB spill area and surrounding areas. Wipe sample results from the concrete and brick surfaces indicated the presence of total PCBs ranging from 16.6 to 18,000 micrograms per 100 square centimeters (µg/100 cm^2). Bulk samples from the concrete and brick surfaces indicated the presence of total PCBs ranging from 2.7 to 280 mg/kg.

Following remedial activities in the PCB spill area, four milled concrete and brick bulk samples were collected from the milled concrete and brick. The results indicated the presence of total PCBs ranging from 0.48 to 28.1 mg/kg, which was below target threshold of 50 mg/kg as outlined in 40 CFR 761.125.

1.2.9 Remedial Investigation - URS Corporation – October 2012-2018

The Remedial Investigation report prepared by URS and dated January 2018 is summarized below.

1.2.9.1 Site Conditions

Subsurface information indicates that the following textural units underlie the Site, from the surface downward: Fill, Silty Clay Till, Lacustrine Clay, and bedrock. Bedrock was not encountered in the on-site borings, which were advanced to a maximum depth of 30 feet.

The primary hydrogeologic units at the Site are a discontinuous perched water table in the Fill and the water table in the Silty Clay Till. The depth to the fill unit groundwater ranged from about 1 to 6 feet bgs and groundwater in the Silty Clay Till was encountered from about 2 to 15 feet bgs.

Overall groundwater flow in the fill unit groundwater is toward the west with a horizontal hydraulic gradient that ranges from 0.0001 to 0.0336 foot per foot (ft/ft). Horizontal hydraulic conductivity obtained from field testing indicates values ranging from 3.73×10^{-5} cm/sec to 8.07×10^{-3} cm/sec.

A relative high in the groundwater surface occurs in the eastern portion of the Site and is likely due to groundwater recharge through the fill in AOC-1. Groundwater flow in the Silty Clay Till across the western portion of the Site is generally toward the west. The horizontal hydraulic gradients in the Silty Clay Till range from 0.0037 to 0.0226 ft/ft. Horizontal hydraulic conductivity values for the Silty Clay Till range from 7.11×10^{-8} cm/sec to 5.47×10^{-3} cm/sec with the higher hydraulic conductivity associated with sand lenses within the unit.

The surface of the Site is almost entirely covered by buildings, concrete, brick, wood blocks and/or pavement, with the exception of AOC-1 which is covered with grass. The sewers previously flowed into the GM-Tonawanda facility storm water system and ultimately discharged through GM's SPDES permitted Outfall 001. Several sewers, manholes and catch basins were re-routed, abandoned and plugged by GM

during remedial activities. After Lewis took ownership of the property and began demolition, GM installed bulkheads in their manholes to keep storm water which contained PCBs from entering their storm water system. As a result, surface water does not drain from the Site and ponds on the surface across the Site. The ponded surface water slowly disappears by either evaporation and\or downward percolation through cracks in the surface material and into the Fill water-bearing zone. Also, runoff water has been observed flowing from the ponded area on the east side of AOC-1 across the sidewalk onto Kenmore Avenue.

1.2.9.2 Summary of RI Analytical Results

No background samples were collected. Therefore, the analytical results were only compared to promulgated and non-promulgated standards, criteria, and guidance values. Locations of samples collected during the RI are shown on Plate 2.

The groundwater analytical results are compared to Class GA groundwater standards, criteria, and guidance values (SCGs) presented in TOGS 1.1.1 and the surface water analytical results are compared to Class A surface water SCGs also presented in TOGS 1.1.1.

Soil and sediment analytical results were compared to three 6 New York Codes, Rules and Regulations (NYCRR) Part 375 Soil Cleanup Objective (SCO) categories:

- Unrestricted Use
- Protection of Groundwater
- Industrial Use

The Unrestricted Use category is required by DER-10 Section 4.4 (b) 3 ii. The level and extent of contamination found at the Site makes it unsuitable for unrestricted use without remediation .and will not be included in this summary.

The Protection of Groundwater category is used to address the potential for residual soil contamination to leach and act as a long-term source of groundwater contamination. For organics, the Protection of Groundwater criteria are based on the ability of organic matter in soil to adsorb organic chemicals and prevent them from leaching out of the soil. The criteria are calculated using a default fraction of organic carbon value and published soil-water partition coefficients. For inorganics, published soil-water distribution coefficients are used. As such, the Protection of Groundwater criteria were developed using generic site conditions and may not accurately reflect actual Site conditions. As a result, it is prudent to evaluate exceedances of Protection of Groundwater criteria in comparison to actual contaminant concentrations in groundwater. The following presents a broad summary of contaminant conditions at the Site. Because contaminant concentrations exceed Unrestricted Use criteria across most of the Site, the Unrestricted Use category is not included in this summary.

Wipe samples were compared to 100 ug/100 cm^2 for non-porous surfaces given in 40 CFR Part 761.125 for low-occupancy.

1.2.9.2.1 Asbestos Containing Materials Impacts

Asbestos containing material (ACM) is present on the ground surface in every AOC except for AOC-1. These materials are primarily roofing material left over from the demolition, and sealant used between concrete sections.

1.2.9.2.2 Surface Cover Impacts

The site is primarily covered by concrete and asphalt. Areas formerly inside the buildings exposed after demolition also include surface cover with brick, and tile. All except one wipe samples collected exceeded the 40 CFR 761.79 decontamination standard of ≤10 µg/100 cm^2 for PCBs. However, only one brick chip sample exceeded the threshold of 50 mg/kg that requires disposal as a hazardous waste.

1.2.9.2.3 Soil Impacts

No volatile organic compounds (VOCs) were detected in the soils at concentrations exceeding Industrial Use criteria. Acetone exceeded Unrestricted Use and Protection of Groundwater criteria in AOC-01, AOC-02, AOC-06, AOC-09, AOC-10, AOC-13, AOC-14, AOC-16 and North of AOC-14; and methylene chloride exceeded Unrestricted Use and Protection of Groundwater criteria in AOC-13 and the parking lot.

SVOCs, primarily polycyclic aromatic hydrocarbons (PAHs), were detected in AST/manhole/catch basin sediments, surface soils, and subsurface soils at concentrations exceeding Unrestricted Use, Protection of Groundwater and Industrial Use criteria. In general, SVOC concentrations were relatively low, within one order of magnitude of the SCOs. The Site is located in an industrial area and it is possible that PAHs detected at the Site may reflect, in part, background conditions.

PCBs were detected in AST/manhole/catch basin sediments, surface soils, and subsurface soils at concentrations exceeding Unrestricted Use, Protection of Groundwater, and Industrial Use criteria. The highest PCB levels in soils were found in AOC-8, AOC-12, AOC-13, and AOC-15. PCBs were also detected in stained concrete.

The presence of arsenic in soils at concentrations exceeding its Industrial Use criterion was found at several locations in AOC-1 and AOC-5 and at one location in AOC-8 and AOC-12. Mercury was detected in one location in AOC-1 at a concentration exceeding the Industrial Use criterion.

1.2.9.2.4 Groundwater Impacts

Two groundwater sampling events were conducted during the RI (January 2014 and November 2016). With the exception of acetone and methylene chloride in the first event only, no VOCs were detected in groundwater at concentrations exceeding NYSDEC TOGS (1.1.1) Class GA groundwater standards. Acetone and methylene chloride are common laboratory contaminants and the sporadic detections of these two VOCs suggests that they are not Site contaminants.

With few exceptions, SVOCs were not detected in groundwater at concentrations exceeding criteria. Exceptions included six detections of phenolic isomers (i.e., phenol, cresols), one detection of bis(2-ethylhexyl)phthalate (in the first event only), and one detection of PAHs.

PCBs were detected in groundwater at concentrations exceeding criteria at numerous locations across the Site. In general, PCB impacts are relatively low. However, PCB impacts in AOC-13 are considerably higher than at other locations across the Site. As noted above, some of the highest PCB in soil impacts were detected in AOC-13, and adjacent AOC-12 and AOC-15.

Arsenic, chromium, lead, selenium and/or thallium were detected above groundwater criteria in only AOC-1, AOC-5, AOC-12, AOC-13, and AOC-16. Iron, magnesium, manganese, and sodium were also detected above their relevant criteria at numerous locations across the Site.

1.2.9.2.5 Light Non-Aqueous Phase Liquid Impacts

Eight light non aqueous phase liquid (LNAPL) samples were collected: two from ASTs, one from a standpipe, four from manholes and one from a monitoring well. With the exception of the monitoring well, LNAPL thicknesses in seven of the eight samples ranged from 1/8-inch to 1-inch. The LNAPL present in the monitoring well (AOC-14-MW-21I) was measured at 96 inches. Three LNAPL samples were identified as motor oil, one sample (AOC-14-MW-21I) as diesel fuel, and the remaining four samples were unknown petroleum hydrocarbons. Four of the samples (AOC-14-MW-21I, MH-59, MH-108 and MH-120) contained PCBs at concentrations greater than 50 mg/kg and are considered PCB liquid waste per 40 CFR Part 761. The location of all manholes can be found on Plate 1. Periodic removal of the LNAPL in AOC-14-MW-21I has been completed. The source of the LNAPL in AOC-14-MW-21I was the subject of further investigation through an IRM and is discussed in Section 1.2.10.

1.2.9.2.6 Sewer System Impacts

A complex network of utilities underlies the Site. Available information indicates the presence of electrical lines, storm sewers, sanitary sewers, non-contact cooling water, perforated pipe, industrial waste lines, fire protection, and mill water lines. Surface expressions of these systems consist of manholes, catch basins, and current and former roof drains. The available information indicates that storm and sanitary sewers ran from the eastern, upgradient portion of the Site to the former industrial waste treatment plant on the western side of the Site. Discharge from the treatment plant would have been to the west via a storm sewer. As previously stated, sewers leading off Site have been plugged.

Accessible manholes and catch basins were opened and inspected. Sediment samples were collected from those manholes that contained a recoverable volume of sediment. Also, LNAPL samples were collected from four manholes; sediment sampling at these four locations was not attempted.

The catch basins and the majority of manholes sampled were associated with the storm sewer system; manholes MH-119 and MH-120 appear to be associated with the IW line, and manholes MH-117, MH-126, and MH-137 were associated with the sanitary sewer.

LNAPL

LNAPL was present in manholes MH-59, MH-108, MH-119, and MH-120. As mentioned above, manholes MH-119 and MH-120 appear to be associated with the IW line. Manhole MH-108 might be associated with the IW line. The sample from MH-108 was identified as motor oil, the sample from MH-119 as an unknown petroleum hydrocarbon, and the sample from MH-120 as motor oil.

Manhole MH-59, located on the southern side of the Site, is associated with the storm sewer system. The analytical results were inconclusive, identifying the sample as an unknown hydrocarbon.

LNAPL, identified as No. 2 fuel oil, was found in monitoring well AOC-14-MW-21I. It was initially suspected that during drilling, the drill rig might have punctured a fuel pipeline, resulting in a release of the product into the formation. A subsequent test trench excavation encircling the well on November 12-15, 2018 did not reveal piping or an obvious LNAPL source.

Sewer Sediments

Sewer sediment samples were collected from 34 catch basins and 11 manholes. There are no cleanup standards specific to sewer sediments. Because the sediments are located at depth and could be encountered by a construction worker during future development, the analytical results were compared to

Part 375 Industrial Use SCGs for soil. The results were also compared to Unrestricted Use and Protection of Groundwater SCGs, however, because Industrial Use is the most applicable category for the sewers, the following discussion focuses on the evaluation of the sediment results with respect to the Industrial Use SCGs.

Sediment samples from 10 manholes and 28 catch basins contained at least one PAH, PCB, or metal at a concentration exceeding the Industrial Use SCGs. Benzo(a)pyrene, which has a very low Industrial Use SCO, was the predominant PAH exceeding criteria. In general, PAH concentrations were relatively low, within one order of magnitude of the Industrial Use criteria. However, the highest PAH concentrations detected in AOC-12 manhole MH-51 had PAH levels more than two orders on magnitude above the Industrial Use criteria.

PCBs were detected at concentrations above the Industrial Use criteria at 15 locations. The predominance of PCBs in manholes and catch basins on the west side of the Site suggests possible impacts along the sewer lines in that area (i.e., not just in the manholes and catch basins). PCB concentrations in the western manholes/catch basins ranged from 32 to 880 mg/kg.

In the southern portion of the Site, PCBs were detected above the Industrial Use SCG in manholes MH-128, and MH-132. These manholes appear to be associated with the industrial waste sewer line.

Also in the southern portion of the Site, PCBs were detected above the Industrial Use SCG in catch basin CB-33, which appears to be an isolated location of PCB impacts in the southern side catch basins.

Sewer system drawings are incomplete; the exact pipeline sizes and routing are unknown. As a result, the volume of impacted sediments in the sewers cannot be determined.

1.2.9.2.7 Surface Water Impacts

One surface water sample was collected from the drainage swale adjacent to Kenmore Avenue (AOC-1-LF-SW-01) during the RI Phase I sampling event. A second surface water sample was collected from the parking lot during the RI Phase II sampling event (Parking Lot Water).

No VOCs or PCBs were detected above Class A surface water SCGs in either sample. PAHs were detected above Class A surface water SCGs in the AOC-1-LF-SW-01 sample. No SVOCs were detected in the parking lot standing water sample.

Metals exceeding Class A SCGs in the AOC-1-LF-SW-01 surface water sample were aluminum, iron, lead, and zinc. No metals exceeded Class A criteria in the parking lot standing water sample.

1.2.9.2.8 Contaminant Fate and Transport

The Site and vicinity is mostly covered with asphalt and concrete. Also, the majority of contaminants detected in soil and groundwater are not readily volatile. As a result, the migration of contaminants in the gas phase is likely minimal, if any.

Contaminants of concern in groundwater are primarily limited to PCBs, arsenic and some phenolic isomers. Overall groundwater flow is to the west for both the Fill and Silty Clay Till water-bearing zones.

In the surface water sample collected from the Site parking lot, no compounds were detected at concentrations exceeding surface water criteria. The surface water sample collected from the east side of

AOC-1, was collected from a drainage swale. The sample contained several PAHs and metals at concentrations above the surface water criteria. However, as no background or upgradient samples were collected, it is unknown whether the results reflect Site impacts or background conditions. It is likely that the PAHs and metals will sorb to sediments and are unlikely to degrade or otherwise be transformed. Consequently, contaminant transport may occur through physical transport of the surface water and sediment particles.

Many of the contaminants detected above SCGs in the sewer sediment samples were not detected above SCGs in either the soil or groundwater. This absence of groundwater impacts, along with the observed surface water ponding at the Site, suggests that the contaminants in the sewer systems are contained and not migrating.

1.2.10 Interim Remedial Measures – January 2016 to May 2019

The NYSDEC initiated the first IRM at the Site in 2015. The remedial measure involved the removal of construction and demolition debris from the Site. The main goal of this IRM was to remove contaminated surficial debris that was hindering investigations required to properly complete the ongoing RI. Specifically, the IRM included the removal, transportation, and off-site disposal of three large surficial piles containing approximately 6,000 tons of construction and demolition debris contaminated with asbestos and/or PCBs. The IRM was completed in January 2016 and the Construction Completion Report (CCR) was approved in August 2016.

In November 2016, 15.5 feet of oil was observed in groundwater monitoring well AOC-14-MW-21I. The LNAPL was found to contain a PCB concentration of 270 parts per million (ppm). An additional investigation in November 2018 was conducted to locate and remove the source of the PCB LNAPL that appeared in monitoring well AOC-14-MW- 21I. A ground penetrating radar (GPR) survey identified a pipeline adjacent to AOC-14-MW-21I that extends approximately 260 feet to the southeast, ending at a vault in AOC-02, approximately 100 feet west of the Administration Building. However, the source was not found. The NYSDEC recovered approximately 155 gallons of LNAPL in AOC-14-MW-21I from November 2016 to May 2019.

1.3 Overall Nature and Extent of Contamination Summary

This section summarizes NYSDEC's ROD and describes the findings of the Remedial Investigation for all environmental media that were evaluated. As described above, samples were collected from various environmental media to characterize the nature and extent of contamination.

For each medium for which contamination was identified, a table summarizes the findings of the investigation. The tables present the range of contamination found at the Site in the media and compares the data with the applicable SCGs for the Site. The contaminants are arranged into VOCs, SVOCs, PCBs, and inorganics (metals and cyanide). For comparison purposes, the SCGs are provided for each medium that allows for unrestricted use. For soil, if applicable, the Restricted Use SCGs identified above are also presented.

1.3.1 Waste/Source Areas

As described in the RI report, waste/source materials were identified at the Site and are impacting groundwater, soil, sewer sediments, and surface water.

Wastes are defined in 6 NYCRR Part 375-1.2 (aw) and include solid, industrial and/or hazardous wastes. Source Areas are defined in 6 NYCRR Part 375 (au). Source areas are areas of concern at a site were substantial quantities of contaminants are found which can migrate and release significant levels of contaminants to another environmental medium. Wastes and Source areas were identified at the Site include:

1.3.1.1 Waste/Source Areas – Asbestos

A total of 123 bulk samples for asbestos analysis were collected across the Site. The majority of the Site has ACM present at the surface. Along the southern edge of the property and the western edge of the asbestos survey area there is an approximate 100-foot wide area zone where no ACM was identified.

1.3.1.2 Waste/Source Areas – LNAPL

Eight LNAPL samples were collected from ASTs, manholes, one standpipe, and one monitoring well. A summary of the PCB detected results and properties of all LNAPL samples is shown on Figure 3A.

VOCs were detected at low concentrations (less than 1.1 part per million (ppm)) in all but one LNAPL sample. Petroleum-related compounds (i.e., benzene, toluene, ethylbenzene, isopropylbenzene, and/or xylene) were found in two samples. Other VOCs detected in one or more of the LNAPL samples include 1,1-dichloroethane, 1,1-dichloroethene, 1,2,4-trichlorobenzene, methyl acetate, and methylene chloride. SVOCs bis(2-ethylhexyl)phthalate and caprolactam, along with several polycyclic aromatic hydrocarbons (PAHs), were detected in the standpipe, manhole, and one monitoring well sample.

PCBs were detected in the LNAPL samples collected from each of the four manholes sampled, and in the monitoring well AOC-14-MW-21I with a total PCB concentration of 270 ppm. Soil or waste containing PCB concentrations greater than 50 ppm is a hazardous waste in New York State.

Results for the identification of specific petroleum products in the LNAPL samples were inconclusive.

1.3.1.3 Waste/Source Areas – Surface Materials

Twenty-four concrete chip samples, fifteen brick chip samples, two asphalt samples, two bulk solids samples, and six wipe samples were collected for PCB analysis and compared to the Toxic Substances Control Act (TSCA) definition of PCB remediation waste (50 ppm).

Concrete chip samples: none of the results exceeded the 50 ppm for total PCBs.

Brick chip samples: PCBs were detected in 12 of the 15 samples. Brick chip sample results exceeded 50 ppm total PCBs at one location.

Bulk Solids Samples: PCBs were detected in both samples. Bulk solid sample results exceeded 50 ppm total PCBs at one location.

Asphalt Samples: No PCBs were detected in either of the two samples.

Wipe Samples: PCBs were detected in five of the six samples from various non-porous surfaces. Five of the samples had total concentrations greater than the SCG criterion of 10 micrograms per 100 square

centimeters (µg/100 $cm^{2)}$, or microgram per wipe (µg/wipe). Two of those wipe samples contained PCB concentrations greater than 100 µg/100 cm^2.

A summary of the detected results and properties of all surface material samples where results exceed PCB SCGs are shown on Figure 3B.

1.3.1.4 Waste/Source Areas – Sewer Sediments

Forty-eight sediment samples were collected from 11 manholes, 34 catch basins, two ASTs, and one 8-inch diameter pipe connecting the two ASTs. Although there are no cleanup standards specific to sewer sediments, sediments are located at depth and could be encountered by a construction worker during future development. Therefore, analytical results, presented in Figure 3C, are compared to Part 375 Industrial Use SCOs. The manholes and catch basins are not connected to public owned treatment works sewers or outfalls.

Of the 48 samples, none exceeded the Industrial Use SCO for VOCs. However, 36 samples exceeded Industrial Use criteria for SVOCs, including PAHs.

PCBs exceeded Industrial Use criteria in ten catch basin and five manhole locations. Six catch basins and three manholes had a total PCB concentration between 50 and 500 ppm and require management as hazardous wastes. PCB concentrations in the western manholes/catch basins ranged from 32 to 380 ppm. The maximum total PCB concentration was 880 ppm.

Metals exceeding Industrial Use criteria include arsenic at eight locations and copper at one location. Certain waste/source areas identified at the Site were addressed by the IRM(s) described in Section 1.2. The remaining waste/source area(s) identified during the RI will be addressed in the remedy selection process.

1.3.2 Soil

Surface and subsurface soil samples were collected at the Site during the RI. A total of 48 surface soil samples were collected from a depth of 0-2 inches to assess direct human exposure. In addition, 272 subsurface soil samples were collected from a depth of 2 - 30 feet to assess soil contamination impacts to groundwater. As shown in Table 1, the results indicate that soils at the Site exceed the unrestricted SCOs for volatile and semi-volatile organics, PCBs and metals. Several metals, PAHs, and PCBs were present above industrial SCOs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, mercury, and PCBs.

Based on the findings of the Remedial Investigation, the past disposal of hazardous waste has resulted in the contamination of soil. The site contaminants identified in soil which are considered to be the primary contaminants of concern, to be addressed by the remedy selection process are: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, arsenic, mercury, and PCBs.

1.3.3 Surface Water

One surface water sample was collected from the drainage swale adjacent to Kenmore Avenue (AOC-1-LFSW-01) during the RI Phase I sampling event. Due to inadequate drainage, ponding occurs across the Site. A second surface water sample was collected from such an area in the parking lot during the RI

Phase II sampling event (Parking Lot Water). A summary of detected analytical results for the surface water samples compared to Class A surface water SCGs is presented in Table 2.

Neither sample contained VOCs or PCBs with concentrations above Class A surface water SCGs. Furthermore, the parking lot standing water sample did not exceed Class A surface water SCGs for SVOCs and metals. However, SVOCs (i.e. PAHs) and metals (aluminum, iron, lead, and zinc) were detected above Class A surface water SCGs in the AOC-1-LFSW-01 sample.

Based on the findings of the Remedial Investigation, the disposal of hazardous waste has resulted in the contamination of surface water. The site contaminants that are considered to be the primary contaminants of concern which will drive the remediation of surface water to be addressed by the remedy selection process are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, pyrene, aluminum, iron, lead, and zinc.

1.4 Summary of the Selected Remedy: OU1 – On-Site Soil, Sewer Sediment and Surface Water Contamination

The NYSDEC issued a ROD for the Tonawanda Forge Site for OU1 in March 2020. While the storm water sewer system remains in place, the outlets have been blocked at the property boundaries by the adjacent property owner, GM, in order to prevent contaminated surface water from entering their property. This has resulted in storm water ponding across the Site. Neither VOCs nor PCBs were detected above Class A Ambient Water Quality Standards and Guidance Values. However, PAHs and metals (aluminum, iron, lead, and zinc) were present above the Class A standards (generally between 0.0012 and 0.002 ppb, 100 ppb, 300 ppb, 7 ppb, and 134 ppb, respectively).

No VOCs exceed SCOs for Industrial Use. SVOCs, PCBs, and metals were found in surface and subsurface soil samples across the Site. As groundwater is present at shallow depths (1-2 feet bgs), the majority of the subsurface soils are present in the saturated zone. Of the SVOCs analyzed, six constituents (primarily PAHs) had maximum concentrations that exceeded SCOs: benzo(a)anthracene (190 parts per million [ppm]; SCO 11 ppm), benzo(a)pyrene (170 ppm; SCO 1.1 ppm), benzo(b)fluoranthene (240 ppm; SCO 11 ppm), chrysene (200 ppm; SCO 110 ppm), dibenz(a,h)anthracene (10 ppm; SCO 1.1 ppm), and indeno(1,2,3-c,d)pyrene (32 ppm; SCO 11 ppm). Concentrations of PCB and PAH results obtained from all investigations to date at depth intervals between 0-2 feet, 2-4 feet, 4-6 feet, 6-8 feet, 8-10 feet 10-12 feet and 12-28 feet bgs are provided in Figures 4 through 17. Metals (arsenic and mercury) exceeded industrial use SCOs of 16 ppm and 5.7 ppm with maximum concentrations of 93.2 ppm and 6.6 ppm, respectively.

Although no specific criteria exist for sewer sediment contaminant concentrations, they have been compared to the Class A Sediment Guidance Values (SGV). Aside from two exceedances of 1,1-dichloroethene (maximum concentration of 1.2 ppm with an SGV of 0.52 ppm) and toluene (maximum concentration of 6.9 ppm with an SGV of 0.93 ppm), there are no exceedances of VOCs or SVOCs. Metals and PCBs are present in the vast majority of the sediment samples. Exceedances of total PCBs were found in 43 of 48 samples and range from 0.59 to 880 ppm (SGV of 0.1 ppm).

The elements of the selected remedy for OU1 as presented in the ROD are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design,

implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling, and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic, and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Excavation

Excavation and off-site disposal of contaminant source areas, including surface and subsurface soils:

- grossly contaminated soil, as defined in NYSDEC New York Code of Rules and Regulation (6 NYCRR) Part 375-1.2(u);
- soil exceeding the 6 NYCRR Part 371 hazardous criteria for lead;
- non-aqueous phase liquids;
- soil with visual waste material or non-aqueous phase liquid; and
- subsurface soil containing total SVOCs exceeding 500 ppm.

Excavation and off-site disposal of all on-site soils which exceed Industrial Use SCOs, as defined by 6 NYCRR Part 375-6.8, except in the landfill area at the east end of the Site (AOC-1). This includes soils containing PCBs above 25 parts per million, as defined in 40 CFR Part 761.61(a)(4)(B)(1) and disposed of according to 40 CFR Part 761.61(a)(5)(i)(B).

Approximately 2,400 cubic yards of contaminated soil will be removed from the Site. Excavation and removal of any USTs, fuel dispensers, underground piping, or other structures associated with a source of contamination will be completed. It is anticipated that a significant amount of piping will be encountered during the surface and subsurface excavation.

3. Backfill

Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the Site.

4. Cover System

A site cover will be required to allow for industrial use of the Site in areas where the upper one foot of exposed surface soil will exceed the applicable SCOs. Where a soil cover is to be used it will be a minimum of one foot of soil placed over a demarcation layer, with the upper 6 inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the Site, will meet the SCOs for cover material for the use of the Site as set forth in 6 NYCRR Part 375-6.7(d). Substitution

of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include but are not necessarily limited to pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs. This excludes approximately 200 cubic feet of PCB contaminated concrete that will be demolished, removed, and properly disposed as PCB contaminated waste.

5. Contaminated Sewer Cleaning and Grouting

Approximately 19,000 linear feet of contaminated on-site sewer lines will be cleaned using jetting or a similar, practical sewer cleaning technology. Liquid and solid spoils from the cleaning will be collected, sampled, and either treated on-site or transported and disposed of off-site as appropriate. Sewer cleaning will immediately be followed by the sealing of sewers with flowable fill, pumped, or tremied, as appropriate.

6. Surface Water Control

A series of new, clean catch basins and storm water collection systems will be constructed to connect to the existing Town of Tonawanda municipal separate storm sewer system (MS4). The new catch basins and collection system will drain ponded water from the Parking Lot area, the ponded area between AOC-1 and Kenmore Avenue, along with other areas of ponding on-site (Figure 18). Detention of the storm water collected, if necessary, to meet peak flow criteria established by the Town of Tonawanda, will be achieved within the collection system. Samples will be collected prior to initial discharge and as required by the Town of Tonawanda and must meet discharge limits.

7. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or Site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for low occupancy, industrial use as defined by Part 375-1.8(g) and 40 CFR 761.3, although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or Erie County Department of Health; and
- require compliance with the Department approved Site Management Plan.

8. Site Management Plan

A Site Management Plan is required, which includes the following:

1. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the Site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed in Paragraph 7 above.

Engineering Controls: The soil cover discussed in Paragraph 4 and the Surface Water Control discussed in Paragraph 6 above.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement, including any land use, and groundwater;
- a provision for evaluation of the potential for soil vapor intrusion for any occupied buildings on the Site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- a provision requiring a risk-based approval from the United States Environmental Protection Agency prior to any change of use to high occupancy, industrial use as defined by 40 CFR 761.3 and 40 CFR 761.61 (a)(4)(i)(B)(3)(v);
- a provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described in Paragraph 4 above will be placed in any areas where the upper one foot of exposed surface soil exceeds the applicable SCOs;
- provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

2. Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- a schedule of monitoring and frequency of submittals to the Department; and
- monitoring for vapor intrusion for any buildings on the Site.

2.0 PRE-DESIGN INVESTIGATION

AECOM and our subcontractor team will complete a Pre-Design Investigation (PDI) to refine remedial extents and requirements and to generate data to support the development of a PCB remedial plan for submittal to USEPA following completion of the Pre-Design Investigation. All activities will be supervised by AECOM personnel. The following work elements will be performed as part of the PDI:

- Review the Asbestos Survey and environmental sampling and assess whether ACM has migrated into the storm sewer network;
- Evaluation of storm sewer contents and sampling of sewer sediments and liquids for waste characterization;
- Soil contamination delineation and environmental sampling of surface soils;
- Review of environmental sampling of concrete/bricks/non-porous surfaces impacted by former spills;
- Soil borings and soil sampling to refine the delineation of TSCA-regulated soil;
- Test pits to assess and characterize miscellaneous sub-grade materials in areas with LNAPLs; and
- Survey sampling and test pit locations.

Investigation locations are shown in Figures 19 and 20. Table 3 provides the rationale for soil sampling program in the AOCs. Table 4 provides the rationale for sewer water, sewer sediment, surface water and LNAPL sampling program. The work will be performed in accordance with this work plan and Generic FAP, Generic QAPP and site-specific HASP are included in Appendices A, B and C, respectively.

2.1 Asbestos Survey

AECOM personnel will conduct additional asbestos sampling survey in surface water and sediments contained within the storm sewer network using protocols outlined in the United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763) and 12 NYCRR Part 56-5. This survey will further document suspect asbestos containing materials (SACMs) and note their appearance, condition, and approximate quantities.

Representative samples of each SACM identified will be sent to an NYSDOH Environmental Laboratory Approval Program (ELAP) certified asbestos lab, under chain-of-custody for analysis. Soil/sediment will be analyzed via polarized light microcopy (PLM) using USEPA Method 600. Surface water will be analyzed via transmission electron microscopy (TEM) using USEPA Method 100.2 (Long Fibers >10 microns only) . The survey will include no more than 40 sediment and water samples will be collected and analyzed for asbestos. For safety purposes and to increase the efficiency of the survey, AECOM will provide a team of two (2) technicians for the fieldwork.

Using the data generated during the survey activities, AECOM will prepare a survey report to supplement prior asbestos reports and will include the following:

1 A summary of the location, quantity and condition of the SACMs and ACMs encountered during the survey;
2 A photo log of the survey, showing materials and sample locations.

Based upon the results of the asbestos survey, combined with the results of previous asbestos sampling, AECOM will provide abatement specifications for the Site. These specifications will be generated in accordance NYSDEC, New York State Department of Labor (NYSDOL) and Occupational Safety and Health Administration (OSHA) requirements and include, but not be limited to, the following:

- A copy of the comprehensive asbestos survey report, showing quantities and locations of ACMs to be removed; and,
- Instructions for the abatement contractor to adhere to 12 NYCRR Part 56, where applicable with any and all variances authorized by the NYSDOL.

2.2 Storm Sewer Water and Sediment Sampling

There is approximately 19,000 linear feet of storm sewer that needs to be cleaned and closed in place with flowable fill (i.e., low strength concrete) as part of the ROD. Materials inside the storm sewer network must be characterized, removed and transported appropriately offsite for disposal. The storm sewer water may need treatment before discharge to the Tonawanda publicly owned treatment works (POTW).

As part of this Task, AECOM will collect paired water/sediment samples at approximately 15 additional locations within the on-site storm sewer network. The selected locations are accessible without the need for heavy equipment to remove obstructions. The sampling and characterization for this effort is summarized below and listed on Table 5:

- Collect 16 sludge/waste samples and analyze all samples for full Target Compound List (TCL)/Target Analyte List (TAL) parameters [Note: reference to full TCL does not include pesticides and herbicide analyses as these parameters are typically not associated with this Site. Eight of the sample locations will also be analyzed for full Toxicity Characteristics Leaching Procedure (TCLP) parameters and Resource Conservation and Recovery Act (RCRA) characteristics of ignitibility, corrosivity (pH), and reactivity.
- Collect 16 storm sewer water samples and analyze all samples for TCL/TAL parameters and RCRA characteristics. Eight of the sample locations will also be analyzed for POTW (or SPDES) discharge parameters.
- Because sediment and storm water contained within the sewer network is considered to be dynamic, sampling locations will be determined in the field after drop inlets are inspected and invert depths are measured. Sampling locations will be selected based upon proximity to former spills and observations made during the field inspections and measurements. It is anticipated that 21 locations will be sampled for sewer/surface water and 16 locations will be sampled for sediments.
- LNAPL samples will be collected from two manhole locations. The LNAPL samples will be analyzed for TCL/TAL parameters, RCRA characteristics, petroleum product ID, and physical characteristics.

2.3 Surface/Subsurface Soil Contamination Delineation

- Collect 25 samples of concrete chip and brick chips of staining on surfaces around the Site and analyze for PCBs. An additional 10 wipe samples will be collected from nonporous surfaces and analyzed for PCBs. Sampling locations will be selected based upon proximity to former spills and observations made during the field inspections and measurements.
- Advance direct-push soil probes to depths down to 20 feet bgs. Borings will be distributed at 20 to 50-foot intervals where further delineation is needed to segregate TSCA waste.
- Collect approximately 300 primary soil samples from the soil probes. Each soil sample will be analyzed for TCL PCBs. Twenty representative samples collected will be analyzed for the full TCL/TAL parameters where PAH contamination is likely co-located. In addition, two composite soil samples will be analyzed for waste characterization parameters (i.e., Full TCLP and RCRA

characteristics – Table 5). Proposed locations for soil borings are provided on Figure 19. These boring locations represent approximately 90% of the samples to be collected. Additional locations (approximately 25 samples) will be developed based on the results of the initial boring program to complete delineation of PCB impacts necessary to obtain approval of the PCB remedial plan.

- Following drilling, abandon each soil boring by backfilling with the soil removed from the borehole and/or with cement/bentonite grout. Soil spoils not returned to boreholes will be drummed for proper off-site disposal.

2.4 Test Pits

- Direct Test pits will be excavated in select locations of the Site to further assess the potential for LNAPL. Approximately, nine test pits will be excavated to approximately 6-8 feet bgs, or until the saturated conditions fill the pit, whichever is less. The length of each test pit is estimated to be no more than 15 feet.

  Immediately following the inspection of each test pit and collection of any samples, the test pit will be backfilled with the excavated soil. The soil will be replaced in the reverse order from how it was removed (i.e. last soil out will be the first soil back in) such that soil stratigraphy will remain the same as it was prior to excavation. The soil will be compacted in approximately 2-foot lifts by using the backhoe bucket. Proposed locations of test pits are provided on Figure 19.

- Up to two soil samples will be collected from each of the test pit with one of the soil samples collected from the area exhibiting the highest level of contamination based on visual inspection and/or photoionization detector (PID) readings. If contamination is detected in the test pit, the second soil sample will be collected from the clean interval below this area of contamination to define its vertical limit (e.g., until native materials or groundwater are encountered). If no contamination is observed in the test pit, one soil sample would be collected from the bottom area of the excavation. The soils samples will be collected from the backhoe bucket by an AECOM geologist. Site personnel will not enter any excavation. All samples will be analyzed for TCL PCBs, nine samples will be analyzed for full TCL/TAL parameters, and two samples for full TCLP and RCRA characteristics). If LNAPL is encountered during the test pit excavation, samples will be collected and analyzed for the same parameters as the manhole sample LNAPLs.

2.5 Laboratory Validation

Table 5 summarizes the sample analytical program and associated quality control samples. Category B data deliverables will be provided by the laboratory for all analytical data. Analytica data will be validated and a Data Usability Summary Report (DUSR) will be included in AECOM report deliverable (Section 3.0). Sample data will be submitted to the NYSDEC in the Department's EQuIS electronic data deliverable (EDD) format after the data is validated.

2.6 Investigation-Derived Waste Management

All investigation-derived waste (IDW), including purge and decontamination water and soil spoils from borings will be drummed for disposal. Drums will be categorized and removed from the Site after analytical results from the environmental sampling are received from the laboratory.

2.7 Engineering Survey

A survey will be completed including the location of direct-push sample probe locations, test pit locations, manhole inverts, and other environmental sample locations, edges of the pavement, erosional features, key grade changes, and other notable features. The survey will tie into the existing site survey and basemap. The survey cost does not include a full property survey for the Environmental Easement.

3.0 PRE-DESIGN INVESTIGATION REPORT

A Pre-Design Investigation Report will be prepared following completion of field activities. The data presented in the RI, FS, Hazardous Building Materials Survey, and information obtained as part of Section 2.0 will be summarized and included in the Pre-Design Investigation Report. The report will include the following:

- A description of field activities conducted on the Site;
- A summary of previous investigations;
- Figures depicting relevant Site features and soil probe, test pit, and ACM locations;
- Figures presenting analytical results in comparison with applicable SCGs;
- Data summary tables of detected compounds with NYS SCGs listed, and non-compliance values highlighted;
- A discussion of analytical results;
- An ACM survey report;
- Field notes;
- Daily activity/boring/test pit logs;
- Photographs taken during field activities;
- Manifests and bills of lading signed by the disposal facility documenting the proper disposal of IDW;
- Survey field notes, site sketches, and drawings;
- A DUSR (including Form 1s) containing only data from the fieldwork;
- Summary of waste materials and bid quantities; and,
- Recommendations for further actions, as warranted.

The Pre-Design Investigation Report will be submitted as a draft report after analytical data is received from the laboratory. A final version of the report will be submitted within four weeks after the NYSDEC's comments on the draft report are received by AECOM.

Category B deliverables are required for all soil and groundwater samples. IDW will be generated throughout the various tasks and will be handled in accordance with the procedures in the Generic Field Sampling Plan for this contract.

The information obtained from the Pre-Design Investigation and previous investigations will be used to complete the remedial design for the Site. The data in the Pre-Design Investigation Report will be incorporated into a PCB Remedial Plan, which serves as a notification pursuant to 40 CFR Part 761.61(a)(3), to be submitted to USEPA to obtain approval for the portions of the remedy related to excavation, disposal, and capping of PCB-impacted soils. The PCB Remedial Plan will identify the proposed cleanup objectives and detail the remedial design and procedures for post-excavation verification sampling, decontamination, materials management, field oversight and monitoring, and documentation associated with the planned remedial activities.

Field Sampling and Implementation Schedule

Activity	Dates
Surface Soil Sampling	November 2 – 12, 2020
Subsurface Soil Sampling	November 2 – 10, 2020
Concrete Chip Sampling	November 10 - 12, 2020
Sewer Sediment Sampling	December 1 - 4, 2020
Sewer Water Sampling	December 1 - 4, 2020
Test Pit Excavation/Sampling	December 7 - 10, 2020

TABLES

TABLE 1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
HISTORICAL SOIL RESULTS SUMMARY

Detected Constituents	Concentration Range Detected (ppm)[a]	Unrestricted SCG (ppm)[b]	Frequency Exceeding Unrestricted SCG	Industrial SCG (ppm)[c]	Frequency Exceeding Industrial SCG	Protection of Groundwater (PGW) SCG (ppm)[d]	Frequency Exceeding PGW SCG
VOCs							
Acetone	0.00480-0.370	0.05	21/317	1,000	0/317	0.05	21/317
Benzene	0.000290-0.005	0.06	0/319	89	0/319	0.06	0/319
Chlorobenzene	0.000890-0.00089	1.1	0/317	1,000	0/317	1.1	0/317
Chloroform	0.000350-0.00068	0.37	0/319	700	0/319	0.37	0/319
Ethylbenzene	0.000410-0.0022	1	0/315	780	0/315	1	0/315
Methyl Ethyl Ketone (2-Butanone)	0.00910-0.054	0.12	0/319	1,000	0/319	0.12	0/319
Methylene Chloride	0.00250-0.058	0.05	2/317	1,000	0/317	0.05	2/317
Tetrachloroethylene (PCE)	0.00660-0.026	1.3	0/317	300	0/317	1.3	0/317
Trichloroethene	0.07-0.07	0.47	0/319	400	0/319	0.47	0/319
Toluene	0.000450-0.0046	0.7	0/315	1,000	0/315	0.7	0/315
Xylenes, Total	0.000960-0.0085	0.26	0/315	1,000	0/315	1.6	0/315
SVOCs							
2-Methylphenol (O-Cresol)	0.00720-0.03	0.33	0/320	1,000	0/320	0.33	0/318
4-Methylphenol (P-Cresol)	0.0150-4.70	0.33	3/320	1,000	0/320	0.33	3/320
Acenaphthene	0.00560-29.0	20	2/318	1,000	0/318	98	0/318
Acenaphthylene	0.00870-1.80	100	0/318	1,000	0/318	107	0/318
Anthracene	0.00600-61.0	100	0/318	1,000	0/318	1,000	0/318
Benzo(A) Anthracene	0.00740-190	1	42/318	11	8/318	1	42/318
Benzo(A) Pyrene	0.00880-170	1	43/318	1.1	38/318	22	4/318
Benzo(B) Fluoranthene	0.00630-240	1	57/318	11	11/318	1.7	42/318
Benzo(G,H,I) Perylene	0.00580-30.0	100	0/318	1,000	0/318	1,000	0/318
Benzo(K) Fluoranthene	0.00230-110	0.8	32/318	110	0/318	1.7	21/318
Chrysene	0.00680-200	1	48/318	110	1/318	1	48/161
Dibenz(A,H) Anthracene	0.00530-10.0	0.33	24/318	1.1	11/318	1,000	0/318
Dibenzofuran	0.00840-16.0	7	3/318	1,000	0/318	210	0/318
Fluoranthene	0.00760-490	100	1/318	1,000	0/318	1,000	0/318
Fluorene	0.0110-28.0	30	0/318	1,000	0/318	386	0/318
Indeno(1,2,3- C,D)Pyrene	0.00550-32.0	0.5	66/318	11	4/318	8.2	8/318

TABLE 1
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
HISTORICAL SOIL RESULTS SUMMARY

Detected Constituents	Concentration Range Detected (ppm)[a]	Unrestricted SCG (ppm)[b]	Frequency Exceeding Unrestricted SCG	Industrial SCG (ppm)[c]	Frequency Exceeding Industrial SCG	Protection of Groundwater (PGW) SCG (ppm)[d]	Frequency Exceeding PGW SCG
Naphthalene	0.0110-9.70	12	0/318	1,000	0/318	12	0/318
Phenanthrene	0.00610-290	100	1/318	1,000	0/318	1,000	0/318
Phenol	0.0450-16.0	0.33	1/318	1,000	0/318	0.33	1/318
Pyrene	0.00920-310	100	1/318	1,000	0/318	1,000	0/318
Metals							
Arsenic	0.560-93.2	13	23/318	16	17/318	16	17/318
Barium	2.50-557	350	4/320	400	0/320	820	0/320
Beryllium	0.0840-6.70	7.2	0/318	2700	0/318	47	0/318
Cadmium	0.0420-29.0	2.5	14/320	60	0/320	7.5	4/320
Chromium, Total	3.40-1,040	30	106/318	800	0/318	19	0/318
Copper	1.90-4,850	50	68/318	10,000	0/318	1,720	4/318
Lead	1.20-2,950	63	51/320	3900	0/320	450	3/320
Manganese	61.3-7,310	1,600	29/318	10,000	0/318	2,000	19/318
Mercury	0.00820-6.60	0.18	25/320	5.7	1/320	0.73	6/320
Nickel	3.40-340	30	117/318	10,000	0/318	130	15/318
Selenium	0.460-11.3	3.9	4/320	6,800	0/320	4	4/320
Silver	0.240-9.80	2	2/320	6,800	0/320	8.3	1/320
Zinc	11.5-4,000	109	75/318	10,000	0/318	2,480	2/318
Pesticides/PCBs							
Total PCBs	0.055-260	0.1	143/304	25	8/304	3.2	52/304
Endrin	0.000031-0.000031	0.014	0/2	410	0/2	0.06	0/2
gamma-BHC (Lindane)	0.001-0.001	0.1	0/2	23	0/2	0.1	0/2
Heptachlor	0.00008-0.00008	0.042	0/2	29	0/2	0.38	0/2

a - ppm: parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil;
b - SCG: Part 375-6.8(a), Unrestricted Soil Cleanup Objectives.
c - SCG: Part 375-6.8(b), Restricted Use Soil Cleanup Objectives for the Protection of Public Health for Industrial Use, unless otherwise noted.
d - SCG: Part 375-6.8(b), Restricted Use Soil Cleanup Objectives for the Protection of Groundwater.

TABLE 2
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
HISTORICAL SURFACE WATER RESULTS SUMMARY

Detected Constituents	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)	Frequency Exceeding SCG
VOCs			
Acetone	ND-4.9	50	0/2
Carbon disulfide	ND-0.44	60	0/2
SVOCs			
Anthracene	ND-0.54	3.8	0/2
Benzo(a)anthracene	ND-3.7	0.002	1/2
Benzo(a)pyrene	ND-5.6	0.0012	1/2
Benzo(b)fluoranthene	ND-11	0.002	1/2
Benzo(k)fluoranthene	ND-4.4	0.002	1/2
Chrysene	ND-6.8	0.002	1/2
Fluoranthene	ND-9.9	50	0/2
Indeno(1,2,3-cd)pyrene	ND-3.4	0.002	1/2
Phenanthrene	ND-3.3	5	0/2
Pyrene	ND-8.3	4.6	1/2
Inorganics			
Aluminum	ND-1,200	100	1/2
Barium	27-55	1,000	0/2
Chromium	ND-0.0036	50	0/2
Cobalt	ND-0.00097	5	0/2
Copper	6-11	14.6	0/2
Iron	300-24,600	300	1/2
Lead	ND-18	7	1/2
Magnesium	9,100-12,500	35,000	0/2
Manganese	36-290	300	0/2
Nickel	0.0048-7	84	0/2
Sodium	2,200-17,600	20,000	0/2
Vanadium	ND-0.0049	14	0/2
Zinc	5.5-220	134	1/2

a - ppb: parts per billion, which is equivalent to micrograms per liter, ug/L, in water.
b -SCG: Ambient Water Quality Standards and Guidance Values (TOGs 1.1.1) and 6 NYCRR Part 703: Surface Water and Groundwater Quality Standards.
ND: Non-detect

TABLE 3
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
SOIL SAMPLING RATIONALE

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-1	ECM Area (Front Forty)	Industrial Landfill	Contaminated fill	176.2 ppm PCBs near ground surface at southern corner of area. Several locations with PCBs >50, but <100 ppm.	Limited surface soil data to determine cleanliness of existing cap. Some larger gaps without soil borings. Need to delineate below and around high-concentration results.	Concentrations of arsenic and benzo(a)pyrene above industrial SCOs. Additional surface soil samples needed along north and south arms and east of northern building.	21 soil borings, 10 Surface samples	0-1, 2-3, 4-5	The presence of PCB concentrations near and exceeding the 100 ppm maximum self-implementing cleanup criterion requires additional delineation horizontally and vertically. Fill has a high degree of variability and requires greater sample density than other areas to adequately characterize it. Characterize surface cover to better delineate extent of concentrations of arsenic and benzo(a)pyrene above industrial SCOs.
A0C-2	Former PCB Spill Area	Damaged electrical transformer	Surface PCB spill from damaged electrical box	25 ppm PCBs at 3-4 feet bgs in central area.	Three borings previously completed in the spill area with limited impacts and a couple other clean samples.	Delineation appears adequate.	1 surface sample	* See below	No likely sources outside of spill area and impacts in spill area are limited. Surface sample in area of spill to assess utility of surface cover as part of cap material.
A0C-3	Relay Rod Area	Oil pits, relay rod area, trenches	Surface contamination from trenches and oil pits.	PCB concentrations <25 ppm throughout.	Good sample coverage with limited PCB impacts and no major PCB source identified.	Delineation appears adequate.	None	NA	AOC adequately characterized.
A0C-4	Machine Repair Area	Drains in machine and truck repair areas with oil	Surface spills, except possibly in sump in truck repair area	A sample collected in 1998 from within the sump in the truck repair area showed PCBs >50 ppm.	Soil samples were collected around the truck repair area sump and PCBs were not detected. Samples collected around one of two oil-filled machine repair area drains.	Delineation appears adequate.	2 soil borings	8-10, 10-12	Characterize the unsampled oil-filled machine repair area drain and characterize deep soils near the 9-foot deep truck repair sump.
A0C-5	Basement & Quench Oil Pump Pits	Backfilled oil pump pits.	Subsurface spill from oil pump pits and potentially contaminated backfill	PCBs detected at less than 1 ppm in 1 of 17 samples.	All the samples are all ND or below the most conservative self-implementing cleanup criteria.	Delineation appears adequate.	None	NA	Borings sufficiently cover the area of the AOC. No further sampling needed.
A0C-6	Waste Treatment Area, Sewer Lift Station & Waste Storage Area	Waste disposal AST	Surface spill from AST	PCBs detected in 2 of 12 samples at a maximum concentration of 3.2 ppm.	Limited evidence of PCB impacts in shallow samples. No evidence of deeper impacts.	Delineation appears adequate.	1 surface sample	* See below	Concrete sample to assess PCB concentrations at ground surface beneath former AST where PCBs were previously detected from 1.5 to 2 feet bgs.
A0C-7	Environmental Building (Former oil Pump)	Oil pump house UST and hazardous waste storage area	Surface spills from waste storage area.	PCBs detected in 8 of 10 samples with 5 results > 1 ppm. 17 ppm PCBs found at 4-4.5 feet bgs All other detections below 5 ppm.	No samples on east side of building near highest concentration of PCBs.	Delineation appears adequate.	2 soil borings	0-0.5, 1-1.5, 3-4, 5-6	Characterize known storage area and delineate around highest detection to verify compliance with self-implementing cleanup objectives.
A0C-8	Oil USTs / C&D Pile	UST and C&D debris pile	Surface from C&D material pile or subsurface spill from UST.	25ppm PCBs found at 3'-4' depth	Former UST farm and building in AOC-8 lack data in the southwest corner of the AOC. Data is needed to improve vertical delineation and contamination extents. Specifically AOC-08-S-TT-X01, AOC-08-GP-02, show contamination exceedances at 4'-5' and no deeper samples in the same locations.	Delineation appears adequate.	4 soil borings	0-0.5, 1-1.5, 2-3, 4-5, 6-7	Four samples on a grid of 20ft is proposed to investigate around the >50 ppm PCB result at AOC-08-GP-02.
A0C-9	Railroad Spur & Soil Waste Accumulation Area	Railroad & soil waste accumulation area	Surface contamination from waste accumulation area. Surface release from railroad.	PCBs detected at concentrations greater than 1 ppm in 7 of 26 samples, all at depths of 1 to 5 feet bgs with a maximum concentration of 13 ppm. NAPL observed at northeast end of area with >100 ppm PCBs.	Delineation appears adequate. Surface samples do not indicate the presence of PCBs over the most conservative self-implementing cleanup criteria.	Need to further delineate extent of SVOCs and metals around GP-05.	2 soil borings 3 surface samples	1 to 2 feet above and 1 to 2 feet below water table	PCB delineation sufficient, but soil concentrations for soil in contact with NAPL requires characterization and delineation.Delineate extent of SVOCs and metals around GP-05.

TABLE 3
TONAWANDA FORGE, SITE No. 915274
PRE-DESIGN INVESTIGATION WORK PLAN
NYSDEC WA D009803-24
SOIL SAMPLING RATIONALE

AOC	Name of AOC	Potential Sources / Releases	Most Likely Potential Mechanisms of Release	Evidence of PCB Release	Data Gap Assessment (PCBs)	Data Gap Assessment (SVOCs/Metals)	Proposed Soil Sample Locations	Default Soil Boring Sample Depths (feet bgs)	Rationale
A0C-10	Berm Area	Used oil AST, cutting-oil covered swarf materials	Surface spill, release from adjacent railroad spur to the northeast	Previous investigation and remediation of PCB-impacted soils. 48 ppm PCBs present from 1 to 1.5 feet bgs along southeastern edge of berm area.	Additional shallow data needed, especially around elevated detection and along eastern edge of berm area needed.	Delineation appears adequate.	6 soil borings 2 surface samples	0-0.5, 1-1.5, 3-4	Delineate around sample with elevated PCB concentrations. Improve surface soil characterization in areas of known impacts.
A0C-11	Railroad Spur	Railroad equipment and materials	Surface spills	PCBs detected in surface soil over much of this area. PCB concentrations >100 ppm detected in NAPL in this area and detected in subsurface soil sample along rail line immediately southeast of site.	Generally good coverage, although additional assessment of surficial soil desirable to ensure 25 ppm cleanup criterion met and delineation around NAPL.	Additional delineation is needed near AOC-11-GP-01.	4 soil borings 1 surface sample	1 to 2 feet above and 1 to 2 feet below water table	Evaluate PCB concentrations around area with NAPL and near areas where PCBs are observed in surface soils in steel yard. Evaluate extent of subsurface SVOC soil contamination around previous boring AOC-11-GP-01.
A0C-12	Steel Yard	Steel yard, storage of swarf material.	Surface contamination from residual cutting oils on swarf.	Previous investigations indicated that the presence of PCBs in subsurface soils (BB&L, December 1998) was attributed to the historic storage of swarf material in the area	Data is needed to delineate vertical and horizontal extent of material containing PCBs greater than 100 ppm.	Delineation is needed at several locations to better define horizontal extent of surface soil contamination.	12 soil borings 3 surface samples	0-0.5, 1-1.5, 3-4	10 soil borings to delineate around 100 mg/kg detections. 2 soil borings for better general coverage of area with potentially randomly distributed sources of PCBs. Additional data is needed to delineate the extent of SVOCs and metals at 6 locations.
A0C-13	Front Forge / Hot Formers	Substation, shears and presses and drains.	Surface releases from transformers, surface and subsurface releases from shears and presses.	Samples of oil collected by GES from this area indicated the presence of PCBs. One sample of soil contained PCBs at 54 ppm. PCB concentrations of 430 ppm detected in NAPL.	Additional soil data is needed to delineate around >50 ppm sample and around NAPL. Additional data needed near former pits and catchbasins around shears and presses.	Delineation appears adequate.	11 Soil borings 3 surface samples	0-0.5, 1-1.5, 3-4 for 9 borings and 1 to 2 feet above and below water table near NAPL well	Additional PCB data is needed in former substation and transformer yard and near the gear presses and shears. Sample locations in substation area should be adjusted based on field observations.
A0C-14	Former Die Room / C&D Pile	C&D pile Subsurface utilities	Surface spill, subsurface spill	Oily C&D pile removed in 2016. NAPL containing PCBs at 270 ppm identified in subsurface.	Soil data needed near the monitoring well to assess the extent of NAPL. Data needed in footprint of former C&D pile.	Delineation appears adequate.	2 soil borings 6 surface samples	1 to 2 feet above and 1 to 2 feet below water table	Soil borings to characterize potential C&D pile PCB residue and to characterize soil around NAPL.
A0C-15	General Stores / Metal Lab Area	Laboratory, drill presses	Surface spill/subsurface spill from drill press sumps	PCB-containing wood block with black staining was observed within this area. Detection of 260 ppm PCBs along northwestern edge of area.	Need additional data near wood block and drill press sump that contained oil. Delineation around elevated PCB detection.	Delineation appears adequate.	5 soil borings 1 surface sample	0-0.5, 1-1.5, 3-4	Delineate around PCB sample collected near floor drain at 1'-1.5' that contained >100 ppm PCBs. Characterize floor benath former stained wood brick flooor.
Other	Loading Docks	Hydraulic lifts	Subsurface release of hydraulic oil possible.	No data exist.	No data exist.	Delineation appears adequate.	6 soil borings	0-0.5, 1-1.5, 3-4, 6-8	4 borings between hydraulic lifts. 2 at hydraulic oil reservoirs.
A0C-16	300 Ton Press & Cold Headers Area / C&D	Pile of C&D material, press	Surface spill from C&D pile. Release from press.	40 ppm detected in boring near former press.	Additional borings to delineate extent of PCBs around former presses.	Delineation appears adequate.	2 soil borings 3 surface samples	0-0.5, 1-1.5, 3-4	Borings to vertically delineate detected PCBs and to assess for potential of higher concentrations. Surface samples to assess C&D pile area.

Notes:
* Surface samples for PCBs to be collected from 0 to 0.5 feet bgs in soil and 0 to 0.25 inches deep in concrete. Aliquots for SVOCs, TAL Metals, and Mercury to be collected between 0 and 2 feet. VOC aliquots to be collected at discrete 1 foot intervals.
Samples identified above represent the primary mobilization to further characterize extent of impacts. A second mobilization is anticipated to complete delineation where necessary.

TABLE 4
TONAWANDA FORGE SITE PRE-DESIGN INVESTIGATION
SEWER WATER, SEWER SEDIMENT, AND LNAPL SAMPLING RATIONALE
OCTOBER/NOVEMBER 2020 MANHOLE, CATCH BASIN, AND DRAINAGE INLET INVENTORY

Location ID	Date	Comment	DTW (inches)	Sediment Thickness (inches)	Description	Proposed Sampling Rationale
Manholes						
MH-15	11/13/2020	Accessible	18.5	3	No visible pipe. Total depth 11.5'	
MH-16	10/27/2020	Accessible	16	NA	Total depth >10.5', heavy sheen, no pipes visible	Heavy sheen present before and after disturbing sediment
MH-16A	10/23/2020	Unable to open (bolted down)	NA	NA	Allen key screws rusted/stripped	
MH-17	10/23/2020	Accessible	23	2	Total depth 114"	
MH-17A	10/23/2020	Accessible	23	0	Total depth 118", no visible pipes	
MH-18	10/23/2020	Unable to open, submerged	NA	NA	NA	
MH-23-2	10/27/2020	Could not locate	NA	NA	NA	
MH-51	10/21/2020	Accessible	17	2	Total depth 9'8", no visible pipes (historic high PCB's)	Historic high PCB's
MH-52	10/23/2020	Unable to locate	NA	NA	NA	
MH-53	10/22/2020	Accessible	21		Total depth >10'10", no visible pipes (historic high PCB's)	Historic high PCB's
MH-53-1	10/27/2020	Could not locate	NA	NA	NA	
MH-53-2	10/22/2020	Accessible	22	1	Total depth 125", 4" pipe w/ 24" invert (historic high PCB's)	Historic high PCB's
MH-53-3	10/23/2020	Unable to open (bolts rusted in place)	NA	NA	PCBs ≥100 ppm	
MH-55	10/27/2020	Accessible	26	NA	Total depth >11'2", 6" pipe, unk invert	
MH-56	10/23/2020	Accessible	25	NA	Total depth >11'2", 4" steel pipe w/ 31" invert, 6" elbow pipe	
MH-57	10/23/2020	Accessible	25	NA	Total depth >11'2", sheen, 4" steel pipe w/ 26" invert	
MH-58	10/22/2020	Accessible	29		Total depth >11'6", minor sheen (historic high PCB's)	Historic high PCB's
MH-58-1	11/18/2020	Could not locate	NA	NA	Possibly destroyed. In rubble area.	
MH-59	10/21/2020	Accessible, oil present	22	2	LNAPL, total depth 10'4", no visible pipes. 3-4' of LNAPL present	
MH-60	10/21/2020	Accessible	26	3	Total depth 9'2", 8" pipe w/ 48" invert (historic high PCB's)	Historic high PCB's
MH-62	10/22/2020	Accessible	24	NA	Total depth >11'2", 4" steel pipe w/ 31" invert	
MH-63	10/23/2020	Accessible, cracked lid, did not open	NA	NA	NA	
MH-64	10/23/2020	Accessible w/ broken lid	14.5	2	Total depth 9', oily substance on water surface	Historic high PCB's
MH-66	10/27/2020	Accessible	28	NA	Total depth >11', sheen, no visible pipes	
MH-68	10/22/2020	Unable to open	NA	NA	Silver cover seal w/ screws	
MH-78	10/27/2020	Accessible	33	2	Total depth 134", 31" pipe leads to 34" square manway w/ 12" sealed pipe	
MH-83B					middle of Back 40, need sample for spacial distribution	Spacial distribution
MH-86					north corner of back 40, need sample for spacial distribution	Spacial distribution
MH-100	10/27/2020	Accessible	40	3	No visible pipes. Total depth 70"	
MH-101	10/27/2020	Unable to open	NA	NA	NA	
MH-102	10/27/2020	Accessible	NM	NM	Total depth > 12', sheen, some sediment. Oil/water separator w/ mechanicals in vault.	Spacial distribution
MH-103	10/27/2020	Accessible	8		Total depth >10.5', raised cap; next to former waste treatment plant	
MH-104	10/27/2020	Accessible	60		Total depth >12', 6" pipe w/ invert	
MH-105	10/27/2020	Accessible/unable to open	NA	NA	40" cover opens to 6' pipe, sealed in place	
MH-106	10/27/2020	Accessible	12	3-4	Total depth 45", cover grown in w/ vegetation and fabric	
MH-107	10/27/2020	Accessible	14	4-6	Total depth 98", slight sheen, no visible ladder or pipes	Sheen on water when sediment was disturbed
MH-108	10/22/2020	Accessible	23	63.5	Total depth 78", no LNAPL seen, 4' pipe w' 28" invert (historic LNAPL)	Historic high PCB's
MH-109	11/18/2020	Unable to open, bolts wouldn't fully come out.	NA	NA	NA	
MH-110	10/23/2020	Accessible, missing lid, replaced lid on 11/15/2013	18.5	2	Total depth 102.5", no visible pipes	
MH-111	10/27/2020	Could not locate	NA	NA	NA	
MH-112	10/22/2020	Accessible	24	1	Total depth 86.5", 1 x 4" pipe w/ 28" invert, 1 x 12" pipe w/ 33" invert, 1 x 6" w/ 48" invert	
MH-113	10/23/2020	Accessible	21	2	Total depth 36", sheen/oily odor, 2 x 12" pipes w/ 30" invert	Sheen and oily odor present before and after disturbing sediment
MH-114	10/23/2020	Unable to open	NA	NA	Allen key screws rusted/stripped	
MH-115	10/27/2020	Could not locate	NA	NA	Covered by concrete or destroyed	
MH-116	10/27/2020	Could not locate	NA	NA	Covered by concrete or destroyed	
MH-117	10/23/2020	Accessible	Dry	3	Total depth 27", 6" pipe w/ 18" invert	
MH-118	10/23/2020	Unable to open, submerged	NA	NA	NA	
MH-119	10/23/2020	Accessible, oil present	18	3	87" to soft bottom, no visible pipes. About 8" of LNAPL present.	8" of LNAPL present, confirm ND for PCBs
MH-120	10/23/2020	Accessible, oil present	18	2	Brick-lined covered in product, total depth 64", no visible pipes. About 6" pf LNAPL present	6" of LNAPL present, sampled in RI, 430 ppm PCBs.

TABLE 4
TONAWANDA FORGE SITE PRE-DESIGN INVESTIGATION
SEWER WATER, SEWER SEDIMENT, AND LNAPL SAMPLING RATIONALE
OCTOBER/NOVEMBER 2020 MANHOLE, CATCH BASIN, AND DRAINAGE INLET INVENTORY

Location ID	Date	Comment	DTW (inches)	Sediment Thickness (inches)	Description	Proposed Sampling Rationale
MH-121	10/23/2020	Accessible, oil present	18	4	77" to soft bottom, no visible pipes. About 3" of LNAPL present	3" of LNAPL present
MH-122	10/22/2020	Accessible	16	1	Total depth 77", no visible pipes	
MH-123	10/22/2020	Accessible	17	2	Total depth 8'7", end of 24" depth opens to vault, sheen/bubbles	
MH-124	10/23/2020	Unable to open, bolted down	NA	NA	NA	
MH-125	10/23/2020	Accessible	16	17	total depth 62.5", 4" elbow pipe	Spacial distribution
MH-126	10/23/2020	Accessible	Dry	4	PCBs ≥100 ppm, total depth 26", 2 x 6" pipes w/ 21" invert	
MH-127	10/27/2020	Could not locate	NA	NA	NA	
MH-128	10/22/2020	Accessible	15	18	Total depth 65", 6" pipe w/ 39.5" invert (historic high PCB's)	Historic high PCB's
MH-129	10/23/2020	Accessible	24	2	Total depth 62", 2" pipe 16-18" elbow below surface, 4" pipe w/ 24" invert	
MH-130	10/23/2020	Unable to open, lid pinched shut on rim	NA	NA	NA	
MH-131	10/21/2020	Unable to open	NA	NA	NA	
MH-132	10/21/2020	Accessible	16	2	Total depth 63", slight sheen, 2" steel pipe w/ elbow (historic high PCB's)	Historic high PCB's
MH-133	10/21/2020	Accessible	16	2	2" steel pipe with elbow. Total depth : 63"	
MH-134	10/21/2020	Accessible	13	2	Total depth 24", 4" PVC pipe	
MH-135	10/21/2020	Accessible	15.5	11	No visible ladder/pipes, reddish/oily sheen	
MH-136	10/23/2020	Accessible, filled w/ concrete debris to top	NA	NA	17" to bottom	
MH-137	10/23/2020	Accessible, broken lid, replaced lid on 11/20/2013.	Dry	7	14" to sediment, 6" pipe w/ 14" invert	
MH-200	10/21/2020	Accessible	20	2	Total depth 88", no visible pipes	
MH-201	11/6/2020	NA	NA	NA	middle of main parking lot, need sample for spacial distribution	Spacial distribution
MH-1608	10/21/2020	Accessible	15	1	Total depth 66"	
MH-1629	10/22/2020	Unable to open, partially seal w/ concrete	NA	NA	NA	
Catch Basins						
CB-1	10/27/2020	Accessible	18	6	Total depth 36", 2 x 8" pipes at bottom, invert at bottom, sheen	
CB-2	10/27/2020	Accessible	18	2	Total depth 36", 2 x 6" pipes at bottom	
CB-3	10/27/2020	Accessible	14	2	Total depth 67"	
CB-4	10/27/2020	Accessible	40	2-3	Total depth 70", no visible pipes	
CB-5	10/27/2020	Accessible	36	10	Total depth 54"	
CB-6	10/27/2020	Accessible	38	5	Total depth 50", invert 50", sheen, 8" steel pipe w/ 39" invert	
CB-7	10/27/2020	Accessible	45	3-4	Invert 60", sheen, 6" PVC pipe, 3 x 10" corregated pipes, invert 60"	
CB-8	10/27/2020	Accessible	NA	8	Total depth 60", cover grown in w/ veg	
CB-9	10/27/2020	Accessible	NA	4-6	Total depth 60", cover grown in w/ veg	
CB-10	10/27/2020	Accessible	8	2-4	Total depth 24"	
CB-11	10/27/2020	Accessible	NA	NA	Filled in with vegetation/ sediment	
CB-12	10/27/2020	Accessible	Dry	>48	Total depth 54"	
CB-13	10/27/2020	Accessible	NA	NA	Filled in with vegetation/ sediment	
CB-14	11/18/2020	Accessible	19	10	6" steel pipe w/ 20" invert. Total depth: 35"	
CB-15	10/27/2020	Accessible	27	2	Total depth 43"	
CB-16	11/18/2020	Accessible	29	3	4" PVC w/ 42.5" invert. Vertical 4-6" pipe. Total depth 65"	
CB-17	10/22/2020	Accessible	19	10	1 X 6" pipe w/ 22" invert, 1 x 12" pipe w/ 33" invert	
CB-18	11/18/2020	Accessible	15	8	8" pipe w/ 19.5" invert. Total depth: 34"	
CB-19	11/18/2020	Could not locate	NA	NA	Dsestroyed/ could not locate. In rubble area	
CB-20	10/27/2020	Accessible	Dry	34"	Total depth 46", 4" pipe to 3" pipe (vertical)	
CB-21	10/22/2020	Accessible	10.5	19.5	Total depth 70.5", possible 8" pipe, bubbles and sheen	
CB-22	10/22/2020	Accessible	13.5	23	No visible pipes	
CB-23	10/27/2020	Accessible	16	8"	Total depth 64", sheen	
CB-24	10/27/2020	Could not locate	NA	NA	NA	
CB-25	10/27/2020	Accessible	15	1	Total depth 58", sheen, drain pipe 15"	
CB-26	10/21/2020	Accessible	18	21	Total depth 43", 6" steel pipe	
CB-27	10/22/2020	Accessible	22	6	Total depth 77", 8" elbow pipe w/ 24" invert, 1.5" standpipe on elbow pipe. Sheen present	
CB-28	10/21/2020	Accessible	17	9	Total depth 42", sheen, 6" steel pipe	

TABLE 4
TONAWANDA FORGE SITE PRE-DESIGN INVESTIGATION
SEWER WATER, SEWER SEDIMENT, AND LNAPL SAMPLING RATIONALE
OCTOBER/NOVEMBER 2020 MANHOLE, CATCH BASIN, AND DRAINAGE INLET INVENTORY

Location ID	Date	Comment	DTW (inches)	Sediment Thickness (inches)	Description	Proposed Sampling Rationale
CB-29	10/27/2020	Accessible	10	8	Total depth 89", sheen, possible 4-6" pipe w/32" invert	
CB-30	10/27/2020	Accessible	10	5	Total depth 86", slight sheen, possible 4-6" pipe	
CB-31	10/21/2020	Accessible	17	23	Total depth 43", sheen and bubbles on water, 6" steel pipe	
CB-32	10/27/2020	Accessible.	NA	NA	Completely filled in w/ sediment and vegetation	
CB-33	10/21/2020	Accessible	22	2	Total depth 9'2", sheen on water, bushes/vegetation grown in	
CB-34	10/21/2020	Accessible	NA	19	Total depth unk, overgrown w/ vegetation	
CB-35	10/21/2020	Accessible	NA	3	Submerged. Total depth 93"	
CB-36	10/27/2020	Accessible, filled to top with water/sediment.	NA	NA	Total depth 24"	
CB-37	10/27/2020	Accessible	NA	NA	Filled to top with sediment.	
CB-38	10/27/2020	Inaccessible	NA	NA	Completely filled in w/ sediment and vegetation	
CB-39	10/27/2020	Could not locate	NA	NA	NA	
CB-40	10/27/2020	Accessible	NA	NA	Filled to top with sediment.	
CB-41	10/27/2020	Accessible	10	8	Total depth 30", PCBs≥100 ppm	
CB unknown #	TBD	TBD	NA	NA	In front of Administration Building, west of MH-310	Spacial distribution
Drainage Inlets						
DI-1	10/21/2020	Accessible	28	5	Total depth 48", 6" PVC pipe. Sheen present	
DI-2	10/21/2020	Accessible	23	3	Total depth 47", 6" PVC pipe. Sheen present	
DI-3	10/21/2020	Accessible	24	1	Total depth 60", 6" PVC pipe. Sheen present	
DI-4	10/21/2020	Accessible	13	4	Total depth 62", no visible pipes	
DI-5	10/21/2020	Accessible	11	6	Total depth 47", 6" PVC pipe. Sheen present	
DI-6	10/21/2020	Accessible	17.5	2	Total depth 47", 6" PVC pipe w/ 30" invert. Sheen present	
DI-8	10/21/2020	Accessible	10.5	2	Total depth 47", 2 x 6" pipes. Sheen present	
DI-9	10/21/2020	Accessible	11.2	5	Total depth 60", 6" PVC pipe w/ 42" invert	

TABLE 5
TONAWANDA FORGE, REMEDIAL DESIGN, SITE No. 915274
NYSDEC WA D009803-24
SAMPLE ANALYTICAL PROGRAM

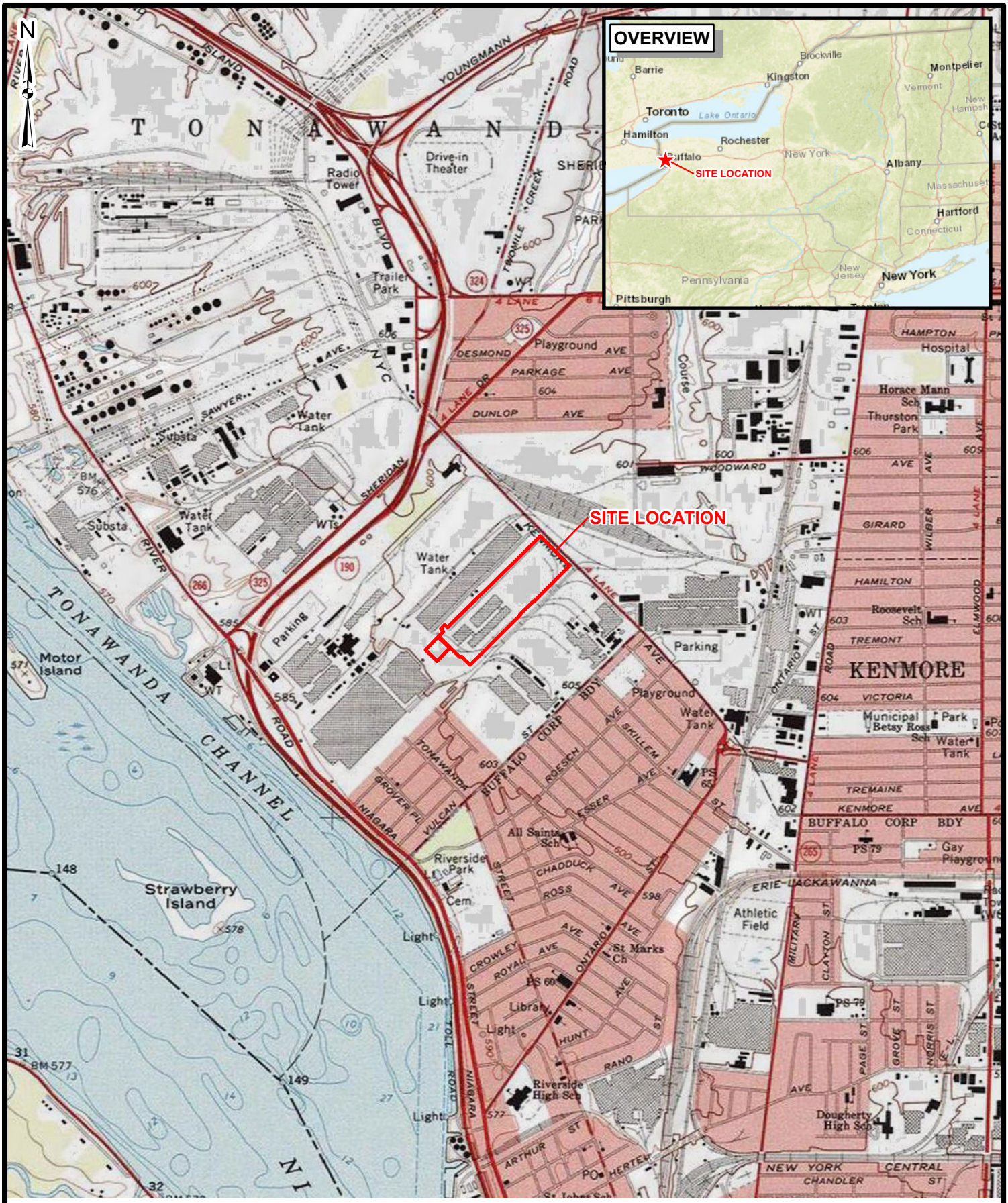
Analytical Methods*	Samples	QC				Total No of Samples
		Field Dup	MS	MSD	Trip Blank	
SOILS - Direct Push Soil Borings						
TCL Volatiles + 10 TICs by 8260C	20	1	1	1	0	23
TCL Semivolatiles + 20 TICs by 8270D	20	1	1	1	0	23
TCL PCBs by 8082A	325	16	16	16	0	373
TAL Metals by 6010C	20	1	1	1	0	23
Mercury by 7471A	20	1	1	1	0	23
Full TCLP	2	0	0	0	0	2
Ignitability by 1030	2	0	0	0	0	2
Corrosivity by 9045C	2	0	0	0	0	2
Reactivity by Chaper 7 Section 7.3	2	0	0	0	0	2
SOILS - Test Pits						
TCL Volatiles + 10 TICs by 8260C	9	1	1	1	1	13
TCL Semivolatiles + 20 TICs by 8270D	9	1	1	1	1	13
TCL PCBs by 8082A	24	1	1	1	0	27
TAL Metals by 6010C	9	1	1	1	1	13
Mercury by 7471A	9	1	1	1	1	13
Full TCLP	2	0	0	0	0	2
Ignitability by 1030	2	0	0	0	0	2
Corrosivity by 9045C	2	0	0	0	0	2
Reactivity by Chaper 7 Section 7.3	2	0	0	0	0	2
LNAPL						
TCL PCBs by 8082A	2	0	0	0	0	2
TCL VOCs + 10 TICs by 8260C	2	0	0	0	0	2
TCL Semivolatiles + 20 TICs by 8270D	2	0	0	0	0	2
TAL Metals by 6010C	2	0	0	0	0	2
Mercury by 7471A	2	0	0	0	0	2
Density by ASTM D2937	2	0	0	0	0	2
BTU by ASTM D240	2	0	0	0	0	2
Fuel Fingerprint by 310-14	2	0	0	0	0	2
Ignitability by 1010	2	0	0	0	0	2
pH by 9045C	2	0	0	0	0	2
Reactivity	2	0	0	0	0	2
Sewer Water (16) and Surface Water (5)						
PP Volatiles by 624.1	21	1	1	1	3	27
PP Semivolatiles by 625.1	21	1	1	1	0	24
PP Pesticides/PCBs by 608.3	21	1	1	1	0	24
PP Metals by 200.8	21	1	1	1	0	24
Dissolved Metals by 200.8	21	1	1	1	0	24
Mercury by 245.1	21	1	1	1	0	24
Dissolved Mercury by 245.1	21	1	1	1	0	24
Cyanide by 9012B	21	1	1	1	0	24

TABLE 5
TONAWANDA FORGE, REMEDIAL DESIGN, SITE No. 915274
NYSDEC WA D009803-24
SAMPLE ANALYTICAL PROGRAM

Analytical Methods*	Samples	QC				Total No of Samples
		Field Dup	MS	MSD	Trip Blank	
Sewer Water (16) and Surface Water (5), Continued						
Hexavalent Chromium by 218.6	9	1	0	0	0	10
Alkalinity, Total by 310.1	9	1	0	0	0	10
Biochemical Oxygen Demand (BOD) by SM5210B	9	1	0	0	0	10
Chemical Oxygen Demand (COD) by 410.4	9	1	0	0	0	10
Flash Point by 1010A	9	1	0	0	0	10
Hardness by 130.1	9	1	0	0	0	10
Oil & Grease by 1664B	9	1	0	0	0	10
Phenolics, Total Recoverable by 420.1	9	1	0	0	0	10
Total Dissolved Solids by 160.1	9	1	0	0	0	10
Total Suspended Solids by SM4500D	9	1	0	0	0	10
Nitrate by 300.0	9	1	0	0	0	10
Nitrite by 300.0	9	1	0	0	0	10
Sulfate by 375.4	9	1	0	0	0	10
Total Kjeldahl Nitrogen by 351.2	9	1	0	0	0	10
Ammonia by 350.2	9	1	0	0	0	10
pH by 150.2	9	1	0	0	0	10
Sewer Sediment (16)						
TCL Volatiles + 10 TICs by 8260C	16	1	1	1	0	19
TCL Semivolatiles + 20 TICs by 8270D	16	1	1	1	0	19
TCL PCBs by 8082A	16	1	1	1	0	19
TAL Metals by 6010C	16	1	1	1	0	19
Mercury by 7470A	16	1	1	1	0	19
Cyanide by 9012B	8	1	1	1	0	11
Full TCLP	8	0	0	0	0	8
Ignitability by 1010	8	0	0	0	0	8
Corrosivity	8	0	0	0	0	8
Reactivity	8	0	0	0	0	8
Concrete Chips, Brick Chips (25) and Wipes (10)						
TCL PCBs by 8082A	35	4	0	0	0	39

MS - Matrix Spike.
MSD - Matrix Spike Duplicate.
PCBs - Polychlorinated biphenyls.
RCRA - Resource Conservation and Recovery Act.
Full TCLP includes Volatiles, Semivolatiles, Pesticides, Herbicides and Metals.
PP - Priority Pollutant.
TAL - Target Analyte List.
TCL - Target compound List.
TCLP - Toxicity Characteristics Leaching Procedure.
TICs - Tentatively Identified Compounds.
* Unit rates based on AECOM D009803 standby rates with Eurofins TestAmerica

FIGURES



Sources: © 2013 National Geographic TOPO!
ESRI World Street Map

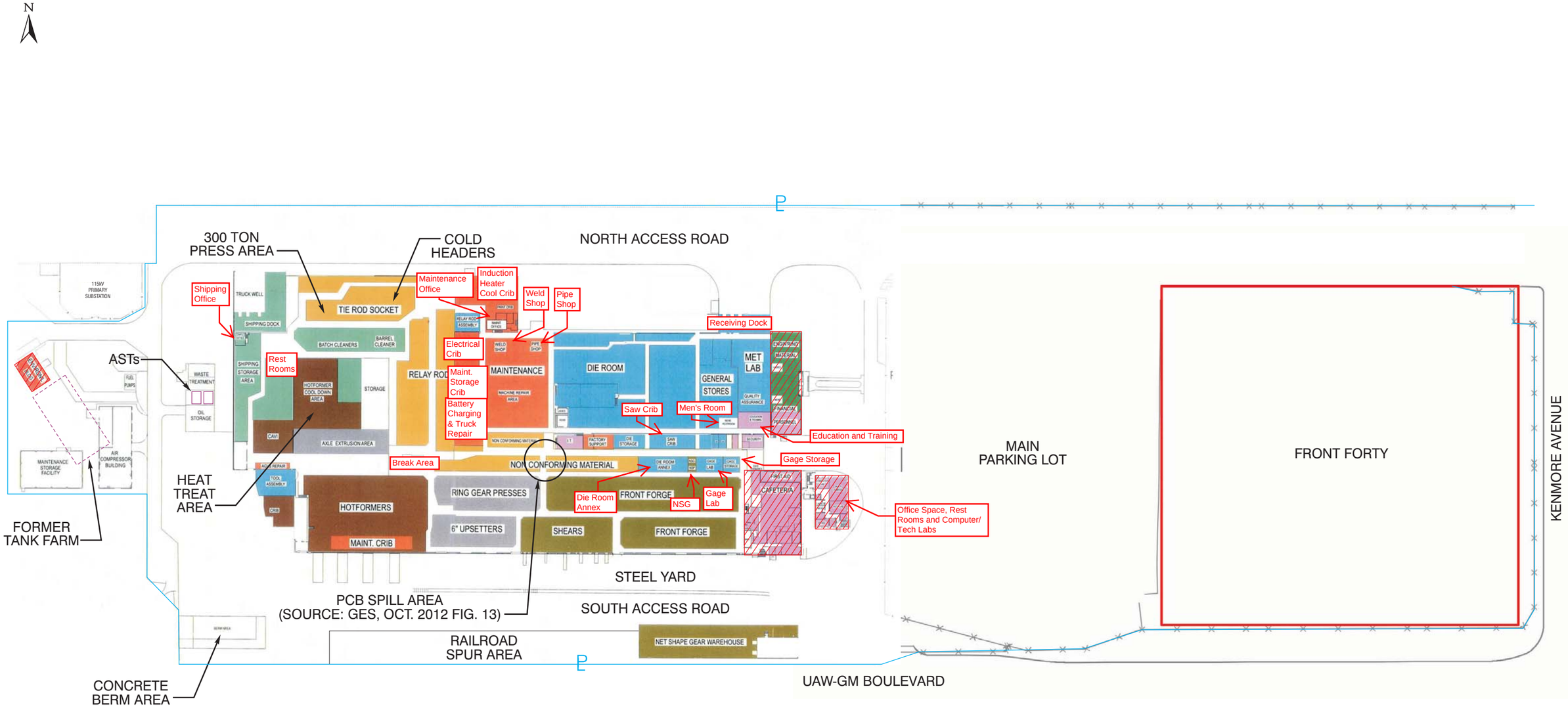
2,000 0 2,000 Feet

AECOM

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SITE LOCATION

FIGURE 1

J:\Projects\11176989\GIS\MAPS\FS\01-01 SITE LOCATION.mxd 4/17/2018



- Existing Structures

P - Approximate Property Line

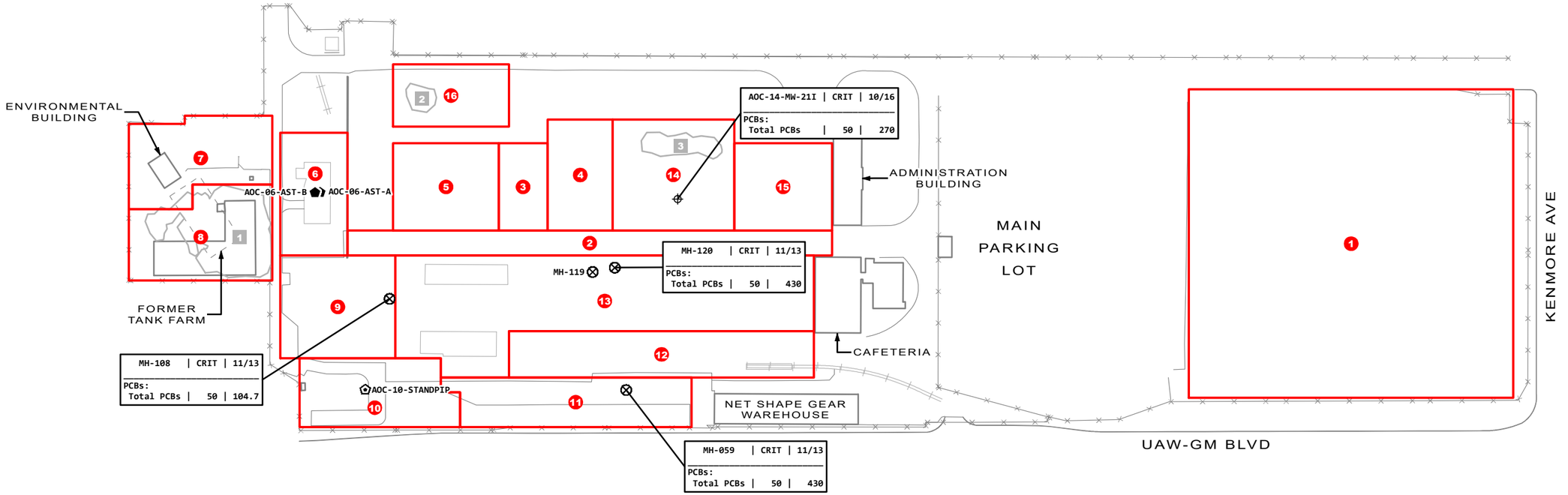
NOTES: Not to scale.
SOURCE: AAM 02/05/2001 Emergency Evacuation and Shelter Plan

AG20961-11176989-051514-GCM

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
HISTORICAL SITE PLAN

AECOM

FIGURE 2



Legend

- AST Sample
- Standpipe Sample
- Manhole
- Monitoring Well
- Area of Concern
- Debris/Waste Pile (Removed Feb. 2016)

Notes: Units are in µg/L; Locations shown without results indicate that no compounds exceeded criteria
Criteria: 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e)

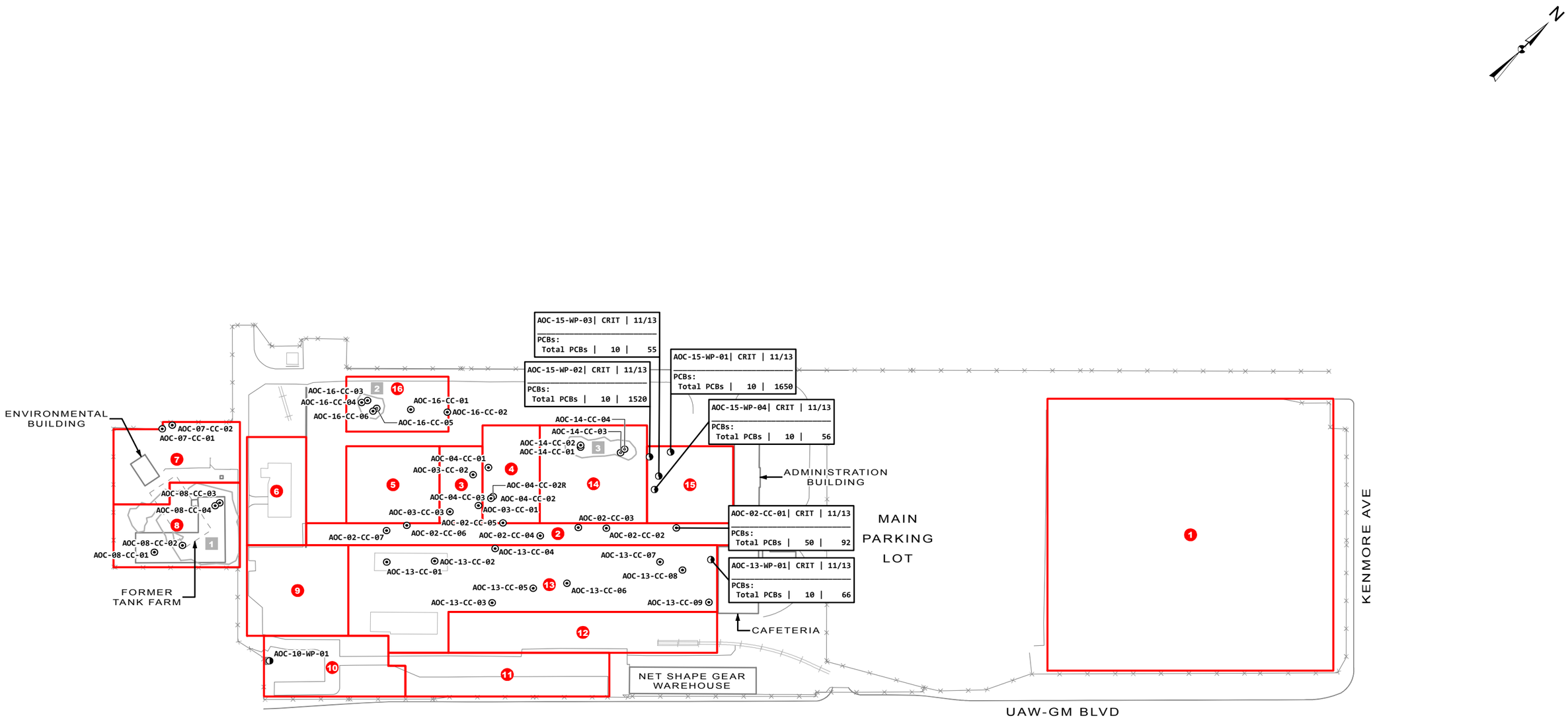
200 0 200 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
NON-AQUEOUS PHASE LIQUID
ANALYTICAL RESULTS

AECOM

FIGURE 3A

J:\Projects\11176989\GIS\MAPSIR\ PHASE 2\04-02 NAPL ANALYTICAL.mxd 5/22/2017



Legend

- Chip Sample (Concrete, Brick, & Asphalt)
- Wipe Sample
- Area of Concern
- Debris/Waste Pile (Removed Feb. 2016)

Notes: Units are in mg/kg, except for Wipe Samples, which are in µg/wipe; Locations shown without results indicate that no compounds exceeded criteria

Criteria: 40 CFR Part 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, and 6 NYCRR Part 371.4 (e)

200 0 200 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
CONCRETE AND ASPHALT CHIP, BRICK, & WIPE SAMPLES PCB ANALYTICAL RESULTS

AECOM

FIGURE 3B

J:\Projects\11176989\GIS\MAPS\RI PHASE 2\04-04 MISC ANALYTICAL.mxd 6/5/2017

ENVIRONMENTAL BUILDING

FORMER TANK FARM

ADMINISTRATION BUILDING

CAFETERIA

NET SHAPE GEAR WAREHOUSE

CB-06	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	2.5
Benzo(b)fluoranthene	1	11	1.7	3.1
Chrysene	1	110	1	3.3
PCBs:				
Total PCBs	0.1	25	3.2	1.57
Metals:				
Antimony	12	--	--	17.4
Cadmium	2.5	60	7.5	3.4
Calcium	10000	--	--	68200
Chromium	30	6800	--	375
Copper	50	10000	1720	271
Iron	2000	--	--	394000
Lead	63	3900	450	918
Manganese	1600	10000	2000	1640
Nickel	30	10000	130	121
Zinc	109	10000	2480	1030

CB-04	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	2.3
Benzo(a)pyrene	1	1.1	22	1.9
Benzo(b)fluoranthene	1	11	1.7	2.2
Benzo(k)fluoranthene	0.8	110	1.7	1.5
Chrysene	1	110	1	3.1
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.6
PCBs:				
Total PCBs	0.1	25	3.2	45.7
Metals:				
Arsenic	13	16	16	22.7
Cadmium	2.5	60	7.5	2.6
Calcium	10000	--	--	73000
Chromium	30	6800	--	169
Copper	50	10000	1720	1160
Iron	2000	--	--	114000
Lead	63	3900	450	343
Mercury	0.18	5.7	0.73	0.6
Nickel	30	10000	130	166
Zinc	109	10000	2480	866

CB-03	CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:				
Toluene	0.7	1000	0.7	1.6
SVOCs:				
4-Methylphenol (p-cresol)	0.33	1000	0.33	0.45
Benzo(a)anthracene	1	11	1	1.5
Benzo(a)pyrene	1	1.1	22	1.5
Benzo(b)fluoranthene	1	11	1.7	2.4
Benzo(k)fluoranthene	0.8	110	1.7	0.7
Chrysene	1	110	1	1.9
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.1
Metals:				
Calcium	10000	--	--	11600
Chromium	30	6800	--	93000
Cobalt	20	--	--	52.9
Iron	2000	--	--	31.1
Lead	63	3900	450	26600
Nickel	30	10000	130	83.4
Zinc	109	10000	2480	17.4

CB-01	CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:				
Toluene	0.7	1000	0.7	6.9
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.94
Benzo(a)anthracene	1	11	1	15
Benzo(a)pyrene	1	1.1	22	12
Benzo(b)fluoranthene	1	11	1.7	19
Benzo(k)fluoranthene	0.8	110	1.7	6.4
Chrysene	1	110	1	16
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	7.7
Phenol	0.33	1000	0.33	1.8
PCBs:				
Total PCBs	0.1	25	3.2	2.3
Metals:				
Calcium	10000	--	--	105000
Chromium	30	6800	--	43.4
Copper	50	10000	1720	71.9
Iron	2000	--	--	38500
Lead	63	3900	450	80.5
Nickel	30	10000	130	76.2
Zinc	109	10000	2480	578

CB-07	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	1.5
Benzo(a)pyrene	1	1.1	22	1.2
Benzo(b)fluoranthene	1	11	1.7	2.3
Benzo(k)fluoranthene	0.8	110	1.7	0.8
Dibenz(a,h)anthracene	0.33	1.1	1000	0.34
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.2
PCBs:				
Total PCBs	0.1	25	3.2	6.5
Metals:				
Arsenic	13	16	16	13.2
Calcium	10000	--	--	79000
Chromium	30	6800	--	197
Copper	50	10000	1720	197
Iron	2000	--	--	31000
Lead	63	3900	450	115
Nickel	30	10000	130	151
Zinc	109	10000	2480	482

CB-08	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	2
Benzo(a)pyrene	1	1.1	22	1.7
Benzo(b)fluoranthene	1	11	1.7	2.5
Benzo(k)fluoranthene	0.8	110	1.7	1.2
Chrysene	1	110	1	2.3
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	1.3
PCBs:				
Total PCBs	0.1	25	3.2	1.4
Metals:				
Calcium	10000	--	--	178000
Chromium	30	6800	--	52.6
Copper	50	10000	1720	131
Iron	2000	--	--	26600
Lead	63	3900	450	162
Nickel	30	10000	130	49.4
Zinc	109	10000	2480	472

CB-39	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	4
Benzo(a)pyrene	1	1.1	22	3.1
Benzo(b)fluoranthene	1	11	1.7	5
Benzo(k)fluoranthene	0.8	110	1.7	1.7
Chrysene	1	110	1	5.3
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	2.5
PCBs:				
Total PCBs	0.1	25	3.2	5.8
Metals:				
Arsenic	13	16	16	15.6
Calcium	10000	--	--	90400
Chromium	30	6800	--	227
Copper	50	10000	1720	413
Iron	2000	--	--	34000
Nickel	30	10000	130	164
Zinc	109	10000	2480	184

CB-11	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	5.6
Benzo(a)pyrene	1	1.1	22	5
Benzo(b)fluoranthene	1	11	1.7	7.5
Benzo(k)fluoranthene	0.8	110	1.7	3.3
Chrysene	1	110	1	6.5
Dibenz(a,h)anthracene	0.33	1.1	1000	0.93
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.3
PCBs:				
Total PCBs	0.1	25	3.2	5.7
Metals:				
Calcium	10000	--	--	124000
Chromium	30	6800	--	181
Copper	50	10000	1720	288
Iron	2000	--	--	64100
Lead	63	3900	450	65.6
Nickel	30	10000	130	184
Zinc	109	10000	2480	488

CB-13	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	1.1
Benzo(a)anthracene	1	11	1	18
Benzo(a)pyrene	1	1.1	22	17
Benzo(b)fluoranthene	1	11	1.7	25
Benzo(k)fluoranthene	0.8	110	1.7	9.6
Chrysene	1	110	1	18
Dibenz(a,h)anthracene	0.33	1.1	1000	2.6
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	9.9
PCBs:				
Total PCBs	0.1	25	3.2	2.3
Metals:				
Calcium	10000	--	--	125000
Chromium	30	6800	--	116
Copper	50	10000	1720	1040
Iron	2000	--	--	71000
Lead	63	3900	450	104
Nickel	30	10000	130	101
Zinc	109	10000	2480	591

CB-17	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.58
Benzo(a)anthracene	1	11	1	8
Benzo(a)pyrene	1	1.1	22	6.7
Benzo(b)fluoranthene	1	11	1.7	9.6
Benzo(k)fluoranthene	0.8	110	1.7	3.8
Chrysene	1	110	1	8.2
Dibenz(a,h)anthracene	0.33	1.1	1000	0.89
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	4.2
PCBs:				
Total PCBs	0.1	25	3.2	1.87
Metals:				
Cadmium	2.5	60	7.5	2.6
Calcium	10000	--	--	172000
Chromium	30	6800	--	56.1
Copper	50	10000	1720	58.5
Iron	2000	--	--	19700
Nickel	30	10000	130	48.6
Zinc	109	10000	2480	275

CB-10	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	3.4
Benzo(a)pyrene	1	1.1	22	2.3
Benzo(b)fluoranthene	1	11	1.7	3.3
Benzo(k)fluoranthene	0.8	110	1.7	2.1
Chrysene	1	110	1	3
PCBs:				
Total PCBs	0.1	25	3.2	4.5
Metals:				
Antimony	12	--	--	12.6
Calcium	10000	--	--	65900
Chromium	30	6800	--	85.9
Copper	50	10000	1720	117
Iron	2000	--	--	30000
Lead	63	3900	450	227
Nickel	30	10000	130	73.3
Zinc	109	10000	2480	599

CB-15	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.98
Benzo(a)anthracene	1	11	1	11
Benzo(a)pyrene	1	1.1	22	9.5
Benzo(b)fluoranthene	1	11	1.7	14
bis(2-Ethylhexyl)phthalate	50	--	435	91
Chrysene	1	110	1	10
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	8.7
Metals:				
Antimony	12	--	--	28.3
Calcium	10000	--	--	113000
Chromium	30	6800	--	251
Copper	50	10000	1720	1250
Iron	2000	--	--	46000
Lead	63	3900	450	1230
Nickel	30	10000	130	57.9
Zinc	109	10000	2480	575

CB-12	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	4.3
Benzo(a)pyrene	1	1.1	22	4
Benzo(b)fluoranthene	1	11	1.7	5.1
Benzo(k)fluoranthene	0.8	110	1.7	2.7
Chrysene	1	110	1	5.6
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	3.7
PCBs:				
Total PCBs	0.1	25	3.2	1.9
Metals:				
Calcium	10000	--	--	82300
Chromium	30	6800	--	144
Copper	50	10000	1720	259
Iron	2000	--	--	51000
Lead	63	3900	450	261
Nickel	30	10000	130	117
Zinc	109	10000	2480	574

ADC-06-MS-ST-B	CRIT 1	CRIT 2	CRIT 3	11/13
Metals:				
Chromium	30	6800	--	294
Cobalt	20	--	--	12.5
Iron	2000	--	--	125000
Nickel	30	10000	130	566
Zinc	109	10000	2480	1130

ADC-06-PIP4-01	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	2
Metals:				
Chromium	30	6800	--	575
Cobalt	20	--	--	25.4
Copper	50	10000	1720	1230
Iron	2000	--	--	159000
Lead	63	3900	450	185
Nickel	30	10000	130	977
Zinc	109	10000	2480	698

ADC-06-AST-A	CRIT 1	CRIT 2	CRIT 3	11/13
Metals:				
Chromium	30	6800	--	399
Cobalt	20	--	--	32.5
Copper	50	10000	1720	1660
Iron	2000	--	--	164000
Nickel	30	10000	130	1330
Zinc	109	10000	2480	1440

CB-14	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.48
Benzo(a)anthracene	1	11	1	6.4
Benzo(a)pyrene	1	1.1	22	6.4
Benzo(b)fluoranthene	1	11	1.7	10
Benzo(k)fluoranthene	0.8	110	1.7	3.4
Chrysene	1	110	1	8.8
Dibenz(a,h)anthracene	0.33	1.1	1000	1.3
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	6.4
PCBs:				
Total PCBs	0.1	25	3.2	1.46
Metals:				
Calcium	10000	--	--	79000
Chromium	30	6800	--	156
Copper	50	10000	1720	258
Iron	2000	--	--	109000
Lead	63	3900	450	159
Nickel	30	10000	130	174
Zinc	109	10000	2480	728

CB-16	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.5
Benzo(a)anthracene	1	11	1	7.1
Benzo(a)pyrene	1	1.1	22	6.1
Benzo(b)fluoranthene	1	11	1.7	9.4
Benzo(k)fluoranthene	0.8	110	1.7	4.2
bis(2-Ethylhexyl)phthalate	50	--	435	82
Chrysene	1	110	1	9.2
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.4
PCBs:				
Total PCBs	0.1	25	3.2	32
Metals:				
Antimony	12	--	--	12.6
Calcium	10000	--	--	64000
Chromium	30	6800	--	208
Copper	50	10000	1720	188
Iron	2000	--	--	23900
Lead	63	3900	450	203
Nickel	30	10000	130	46.2
Zinc	109	10000	2480	1070

CB-20	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	6.3
Benzo(a)pyrene	1	1.1	22	5.3
Benzo(b)fluoranthene	1	11	1.7	7.2
Benzo(k)fluoranthene	0.8	110	1.7	4.1
Chrysene	1	110	1	6.7
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.5
PCBs:				
Total PCBs	0.1	25	3.2	81
Metals:				
Cadmium	2.5	60	7.5	3.2
Calcium	10000	--	--	266000
Chromium	30	6800	--	96.2
Copper	50	10000	1720	1130
Iron	2000	--	--	29100
Nickel	30	10000	130	33
Zinc	109	10000	2480	583

CB-23	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	6.2
Benzo(a)pyrene	1	1.1	22	5.1
Benzo(b)fluoranthene	1	11	1.7	8.3
Benzo(k)fluoranthene	0.8	110	1.7	4
Chrysene	1	110	1	7.9
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.6
PCBs:				
Total PCBs	0.1	25	3.2	33
Metals:				
Arsenic	13	16	16	21.7
Cadmium	2.5	60	7.5	5.5
Calcium	10000	--	--	76200
Chromium	30	6800	--	402
Cobalt	20	--	--	24.6
Copper	50	10000	1720	1240
Iron	2000	--	--	264000
Lead	63	3900	450	329
Manganese	1600	10000	2000	1860
Mercury	0.18	5.7	0.73	0.51
Nickel	30	10000	130	156
Zinc	109	10000	2480	1070

CB-25	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	5.7
Benzo(a)pyrene	1	1.1	22	4.4
Benzo(b)fluoranthene	1	11	1.7	6.9
Benzo(k)fluoranthene	0.8	110	1.7	3.8
Chrysene	1	110	1	5.3
PCBs:				
Total PCBs	0.1	25	3.2	11
Metals:				
Cadmium	2.5	60	7.5	14.3
Calcium	10000	--	--	54400
Chromium	30	6800	--	213
Copper	50	10000	1720	410
Iron	2000	--	--	86.2
Lead	63	3900	450	334
Nickel	30	10000	130	75
Zinc	109	10000	2480	1060

CB-26	CRIT 1	CRIT 2	CRIT 3	11/13
PCBs:				
Total PCBs	0.1	25	3.2	0.59
Metals:				
Calcium	10000	--	--	165000
Chromium	30	6800	--	96.2
Copper	50	10000	1720	84.8
Iron	2000	--	--	26700
Nickel	30	10000	130	75
Zinc	109	10000	2480	116

MH-055	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	1.7
Benzo(a)anthracene	1	11	1	17
Benzo(a)pyrene	1	1.1	22	14
Benzo(b)fluoranthene	1	11	1.7	20
Benzo(k)fluoranthene	0.8	110	1.7	8.8
Chrysene	1	110	1	18
Dibenz(a,h)anthracene	0.33	1.1	1000	1.5
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	13
PCBs:				
Total PCBs	0.1	25	3.2	24
Metals:				
Calcium	10000	--	--	35600
Chromium	30	6800	--	66.7
Copper	50	10000	1720	99
Iron	2000	--	--	29200
Lead	63	3900	450	84
Nickel	30	10000	130	40.6
Zinc	109	10000	2480	456

CB-22	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	2.5
Benzo(a)anthracene	1	11	1	65
Benzo(a)pyrene	1	1.1	22	58
Benzo(b)fluoranthene	1	11	1.7	75
Benzo(k)fluoranthene	0.8	110	1.7	36
Chrysene	1	110	1	68
Dibenz(a,h)anthracene	0.33	1.1	1000	5.8
Fluoranthene	100	1000	1000	150
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	49
Naphthalene	12	1000	12	36
Phenanthrene	100	1000	1000	150
Pyrene	100	1000	1000	150
PCBs:				
Total PCBs	0.1	25	3.2	21
Metals:				
Calcium	10000	--	--	13200
Chromium	30	6800	--	66.5
Copper	50	10000	1720	89.9
Iron	2000	--	--	32200
Lead	63	3900	450	166
Manganese	1600	10000	2000	1740
Nickel	30	10000	130	69.3
Zinc	109	10000	2480	245

CB-27	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.55
Benzo(a)anthracene	1	11	1	7.7
Benzo(a)pyrene	1	1.1	22	6.4
Benzo(b)fluoranthene	1	11	1.7	9.2
Benzo(k)fluoranthene	0.8	110	1.7	4.3
Chrysene	1	110	1	8.5
Dibenz(a,h)anthracene	0.33	1.1	1000	1.1
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.4
PCBs:				
Total PCBs	0.1	25	3.2	4.13
Metals:				
Calcium	10000	--	--	159000
Chromium	30	6800	--	42.4
Copper	50	10000	1720	149
Iron	2000	--	--	24500
Lead	63	3900	450	66.4
Nickel	30	10000	130	54.5
Zinc	109	10000	2480	228

MH-053-3	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.45
Benzo(a)anthracene	1	11	1	19
Benzo(a)pyrene	1	1.1	22	17
Benzo(b)fluoranthene	1	11	1.7	24
Benzo(k)fluoranthene	0.8	110	1.7	11
Chrysene	1	110	1	19
Dibenz(a,h)anthracene	0.33	1.1	1000	2.7
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	16
PCBs:				
Total PCBs	0.1	25	3.2	267.9
Metals:				
Arsenic	13	16	16	22
Cadmium	2.5	60	7.5	4.5
Calcium	10000	--	--	70700
Chromium	30	6800	--	158
Copper	50	10000	1720	367
Iron	2000	--	--	170000
Lead	63	3900	450	839
Mercury	0.18	5.7	0.73	0.2
Nickel	30	10000	130	154
Zinc	109	10000	2480	638

CB-21	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	2
Benzo(a)anthracene	1	11	1	37
Benzo(a)pyrene	1	1.1	22	37
Benzo(b)fluoranthene	1	11	1.7	39
Benzo(k)fluoranthene	0.8	110	1.7	9.7
Chrysene	1	110	1	21
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	12
PCBs:				
Total PCBs	0.1	25	3.2	2.8
Metals:				
Antimony	12	--	--	36.5
Calcium	10000	--	--	186000
Chromium	30	6800	--	43.4
Copper	50	10000	1720	3160
Iron	2000	--	--	54600
Lead	63	3900	450	145
Nickel	30	10000	130	275
Zinc	109	10000	2480	6560

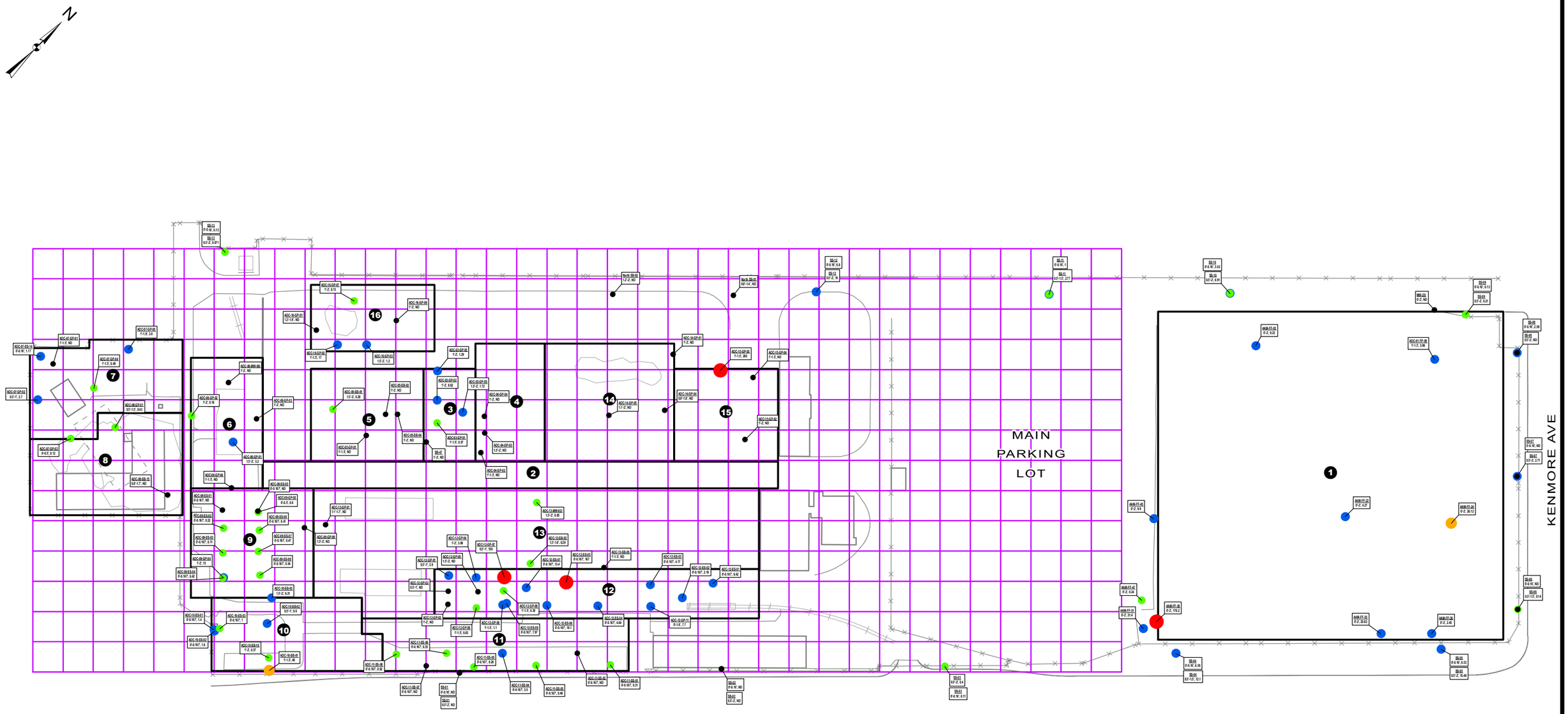
CB-28	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	0.57
Benzo(a)anthracene	1	11	1	7.4
Benzo(a)pyrene	1	1.1	22	6.2
Benzo(b)fluoranthene	1	11	1.7	9.7
Benzo(k)fluoranthene	0.8	110	1.7	3.3
Chrysene	1	110	1	8.6
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	5.3
PCBs:				
Total PCBs	0.1	25	3.2	5.5
Metals:				
Calcium	10000	--	--	125000
Chromium	30	6800	--	66.2
Copper	50	10000	1720	134
Iron	2000	--	--	30000
Lead	63	3900	450	90
Nickel	30	10000	130	111
Zinc	109	10000	2480	223

MW-117	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	0.69
PCBs:				
Total PCBs	0.1	25	3.2	39
Metals:				
Aluminum	10000	--	--	19300
Arsenic	13	16	16	16
Barium	350	10000	820	542
Cadmium	2.5	60	7.5	3.7
Calcium	10000	--	--	28600
Chromium	30	6800	--	425
Cobalt	20	--	--	28.6
Copper	50	10000	1720	1030
Iron	2000	--	--	44000
Lead	63	3900	450	1040
Manganese	1600	10000	2000	1740
Mercury	0.18	5.7	0.73	0.4
Nickel	30	10000	130	371
Silver	2	680	8.3	2.2
Vanadium	39	--	--	49.2
Zinc	109	10000	2480	762

CB-30	CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:				
Acetone	0.05	1000	0.05	0.084
SVOCs:				
Benzo(b)fluoranthene	1	11	1.7	6.9
Benzo(k)fluoranthene	0.8	110	1.7	2.4
Chrysene	1	110	1	4.9
PCBs:				
Total PCBs	0.1	25	3.2	11
Metals:				
Cadmium	2.5	60	7.5	2.6
Calcium	10000	--	--	79000
Chromium	30	6800	--	158
Copper	50	10000	1720	2840
Iron	2000	--	--	46200
Lead	63	3900	450	190
Nickel	30	10000	130	94
Zinc	109	10000	2480	1280

CB-32	CRIT 1	CRIT 2	CRIT 3	11/13
VOCs:				
1,1-Dichloroethene	0.33	1000	0.33	1.2
SVOCs:				
2-Methylnaphthalene	0.41	--	36.4	1.6
Benzo(a)anthracene	1	11	1	7.2
Benzo(a)pyrene	1	1.1	22	12
Benzo(b)fluoranthene	1	11	1.7	20
Benzo(k)fluoranthene	0.8	110	1.7	7.5
bis(2-Ethylhexyl)phthalate	50	--	435	1.8
Chrysene	1	110	1	9.4
Dibenz(a,h)anthracene	0.33	1.1	1000	5.6
Indeno(1,2,3-cd)pyrene	0.5	11	8.2	11
PCBs:				
Total PCBs	0.1	25	3.2	49.7
Metals:				
Calcium	10000	--	--	11200
Chromium	30	6800	--	49.2
Copper	50	10000	1720	74.2
Iron	2000	--	--	20400
Lead	63	3900	450	100
Mercury	0.18	5.7	0.73	0.5
Nickel	30	10000	130	41.3
Zinc	109	10000	2480	395

CB-31	CRIT 1	CRIT 2	CRIT 3	11/13
SVOCs:				
Benzo(a)anthracene	1	11	1	9.6
Benzo(a)pyrene	1	1.1	22	7.7
Benzo(b)fluoranthene	1	11	1.7	10
Benzo(k)fluoranthene	0.8	110	1.7	4.2
Chrysene	1



Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- 50' Grid
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 0'-2' BGS

AECOM

FIGURE 4

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_0-2ft.mxd 9/30/2020

N

AOC-16-MW-05I
2'-3', ND

SB-51
1'-3.75', 14

SB-54
1'-3', 290

AOC-16-GP-05
2'-3', ND

North SB-03
1.8'-2.8', ND

AOC-14-GP-03
2'-2.9', ND

AOC-14-GP-02
3'-4', ND

AOC-06-MW-06I
2'-3', ND

SB-53
1'-4', 40

AOC-03-GP-06
2'-2.5', 15

AOC-03-GP-07
3'-3.5', 0.45

SB-56
2'-4', ND

AOC-08-GP-01
3'-3.5', 0.49

AOC-08-SB-16
2.8'-4', ND

AOC-05-GP-02
3'-4', ND

AOC-14-GP-06
3'-4', ND

AOC-14-MW-21I
1.5'-3', ND

AOC-05-MW-04I
2'-3', ND

AOC-06-GP-01
3'-3.5', ND

AOC-03-GP-04
1.8'-2.3', 0.18

AOC-14-GP-08
3'-4', ND

AOC-15-GP-06
2'-2.5', ND

SB-39
1'-3.5', 6.8

AOC-04-GP-01
2'-3', ND

AOC-02-MW-01I
1.3'-2.3', 0.076

AOC-08-GP-03
3'-3.5', 2.99

AOC-08-SB-15
2'-4', 0.19

SB-20
1'-4', 0.65

AOC-14-GP-07
2.2'-3.2', ND

AOC-15-GP-01
3'-3.5', ND

AOC-09-GP-01
2'-3', 0.82

AOC-09-GP-05
2.5'-3', ND

AOC-02-GP-01
2'-3', 0.15

AOC-02-MW-03I
3'-4', 3.64

AOC-09-GP-02
2'-2.5', 3.63

AOC-09-GP-06
2'-3', 2.36

AOC-13-SB-02
1.7'-2.2', ND

AOC-08-SB-14
3'-3.6', 0.27

AOC-08-GP-02
2.5'-3', 2.3

AOC-09-GP-03
1.5'-2.5', 3.76

AOC-09-GP-07
2.6'-3.6', ND

AOC-13-SB-04
2.3'-2.9', 0.72

AOC-13-SB-06
2'-3', ND

AOC-13-MW-19I
2'-3', 54

AOC-09-GP-03
2.5'-3.5', 10.94

AOC-09-GP-08
2'-2.5', 6.09

AOC-12-MW-09I
2'-3', ND

AOC-10-SB-05
2'-3', 2.5

AOC-12-GP-10
1.8'-2.4', ND

AOC-09-GP-04
3'-4', 3.42

AOC-10-SB-04
3'-4', 3.1

AOC-10-SB-06
2'-4', 0.82

AOC-10-SB-08
2'-3', 0.23

AOC-10-SB-13
2'-4', 0.28

AOC-10-SB-09
2'-3', ND

AOC-10-MW-08I
3'-4', 0.21

AOC-10-SB-02
2.5'-3', ND

AOC-11-GP-03
2'-3.6', 3.9

AOC-11-GP-02
2.4'-3', 0.77

AOC-11-GP-01
2.1'-2.8', 1.98

AOC-10-SB-12
2'-3', ND

AOC-10-SB-01
2'-2.5', ND

AOC-10-GP-02
2.5'-3.1', ND

AOC-10-GP-01
2.4'-3.4', ND

MAIN
PARKING
LOT

MW-22I
0.5'-2.5', ND

SB-66
2'-4', 0.41

AOC-01-MW-11I
2'-4', ND

SB-75
2'-4', 2.5

AAM-FF-07
2'-4', 4.47

AAM-FF-10
2'-4', ND

AOC-01-TP-05
3'-4', ND

SB-76
2'-4', 3.69

AOC-01-TP-10
3'-4', 4.7

AOC-01-TP-X02
2.5'-3', 3.1

SB-74
2'-4', 20

AAM-FF-14
2'-4', 60.24

AOC-01-TP-08
3'-3.5', 8.63

AAM-FF-18
2'-4', 72.32

AOC-01-TP-X09
2'-3', 3.86

AOC-01-TP-X03
3'-3.5', 0.055

AOC-01-MW-13I
3'-4', 1.8

AOC-01-TP-11
3'-4', 33.4

SB-78
2'-4', 0.97

AOC-01-TP-X08
3'-3.5', 1.4

SB-63
2'-4', 0.59

AOC-01-TP-14
3'-4', 14

AOC-01-MW-10I
2'-3', 1.73

AOC-01-TP-15
3'-4', 4.4

AOC-01-TP-02
3'-4', 1.55

AAM-FF-50
2'-4', 30.7

AOC-01-MW-12I
3'-4', 37

AOC-01-TP-23
2.4'-3.4', 9.7

SB-80
2'-4', 69

AAM-FF-40
2'-4', 2.34

KENMORE AVE

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- 50' Grid
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 2'-4' BGS

AECOM

FIGURE 5

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_2-4ft.mxd 9/30/2020

N

AOC-16-MW-05I
5'-6', ND

AOC-07-GP-01
5'-6', ND

AOC-07-GP-04
5.5'-6', ND

AOC-08-N-TT-11
4'-5', 1.42

AOC-08-S-TT-18
4'-4.5', 17

AOC-08-N-TT-47
4'-5', ND

AOC-08-S-TT-60
4'-5', 1.02

AOC-08-N-TT-80
4'-5', 0.22

AOC-08-S-TT-86
4'-5', 2.11

AOC-08-GP-02
4'-5', 54

AOC-09-GP-01
5'-5.5', 0.4

AOC-09-GP-06
4'-5', 2.58

AOC-09-GP-08
4'-4.5', ND

AOC-09-GP-07
4'-4.5', ND

AOC-10-SB-08
5'-6', 0.075

AOC-10-MW-08I
5'-6', ND

AOC-10-SB-15
4'-5', 11

AOC-10-SB-14
4'-6', 1

AOC-05-GP-03
4'-4.5', ND

AOC-05-MW-04I
5'-6', ND

AOC-05-GP-04
4'-5', ND

AOC-03-GP-04
5'-5.6', ND

AOC-03-GP-07
5'-6', ND

AOC-04-GP-04
4'-5', ND

AOC-04-GP-02
4'-5', ND

AOC-02-GP-01
4'-5', ND

AOC-02-MW-03I
5'-6', ND

SB-33
4'-6', ND

AOC-13-SB-01
4'-4.5', 0.5

AOC-13-SB-01
5'-6', ND

SB-41
3.5'-6', ND

AOC-12-MW-09I
4'-5', ND

AOC-12-GP-12
4'-5', ND

MW-C
3'-5', ND

SB-13
4'-6', ND

AOC-13-GP-03
4'-5', ND

AOC-15-GP-04
4'-5', ND

AOC-15-GP-01
4'-5', ND

SB-09
4'-6', ND

SB-04
4'-6', ND

AOC-13-SB-07
5'-5.5', ND

MAIN
PARKING
LOT

AAM-FF-42
4'-6', ND

AAM-FF-17
4'-6', 6.77

AOC-01-TP-X01
4'-4.5', 18.3

AAM-FF-20
4'-6', 0.05

AOC-01-TP-X07
4'-5', 5.8

SB-72
4'-6', 0.79

AOC-01-TP-20
4'-5', 7.31

SB-69
4'-6', 3.7

AOC-01-TP-X04
4.8'-5', ND

AOC-01-TP-X06
4'-5', 2.35

AOC-01-TP-X05
4'-5', 7.9

SB-70
4'-6', 1.34

KENMORE AVE

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- 50' Grid
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 4'-6' BGS

AECOM

FIGURE 6

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_4-6ft.mxd 9/30/2020

RR-210A
4'-8', 46

MW-E
5'-7', ND

AOC-16-GP-06
6'-7', ND

AOC-16-GP-02
6'-7', 0.057

AOC-16-GP-05
6'-7', ND

MW-F
5'-7', ND

AOC-03-GP-03
7'-8', ND

AOC-05-SB-01
6'-7', ND

AOC-16-GP-03
6'-7', ND

AOC-06-GP-02
7'-8', ND

MW-D
5'-7', ND

AOC-06-GP-03
7'-8', ND

AOC-08-SB-16
6'-8', ND

AOC-07-GP-03
6'-6.5', ND

SB-02
6'-8', ND

AOC-14-GP-07
7'-8', 0.23

AOC-05-SB-03
7'-8', ND

AOC-05-SB-02
6'-7', ND

SB-57
6'-8', ND

AOC-05-GP-02
7'-8', ND

MW-A
5'-7', ND

MAIN
PARKING
LOT

AOC-06-GP-04
6'-7', ND

AOC-09-GP-05
6'-7', ND

AOC-13-MW-02I
7'-8', ND

RR-066A
4'-8', 1.8

AOC-08-GP-03
7'-8', 0.47

AOC-09-GP-09
6'-7', ND

AOC-09-GP-02
7'-8', ND

AOC-13-GP-02
6'-7.5', 1.2

AOC-12-GP-02
6'-7', ND

AOC-12-GP-04
6'-6.5', ND

SB-30
4'-8', 0.59

SB-21
6'-8', ND

SB-10
6'-8', ND

AOC-13-GP-04
6.4'-7.4', ND

AOC-10-SB-03
7'-8', ND

AOC-12-GP-08
7'-8', ND

AOC-13-MW-20I
6'-6.4', 0.12

AOC-12-GP-05
7'-8', ND

AOC-12-GP-09
7'-8', ND

AOC-12-GP-06
7'-8', ND

AOC-01-MW-11I
6'-8', 0.89

SB-61
6'-8', 0.053

KENMORE AVE

RR-034A
4'-8', 9

RR-031A
4'-8', 3.2

RR-222A
4'-8', 24

RR-016B
4'-8', ND

RR-024A
4'-8', 180

RR-008A
4'-8', 0.178

AOC-11-GP-03
6'-7', 1.9

RR-267A
4'-8', 0.37

RR-259A
4'-8', 1.03

RR-251A
4'-8', 0.4

RR-233A
4'-8', 0.037

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- 50' Grid
- Area of Concern

NOTE: RR Locations were collected by Conestoga-Rovers & Associates as part of the Historical and Active Railroad Drainage Line Subsurface Investigation, November 2000. Offsite locations are based on historical railroad locations that are no longer extant.

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 6'-8' BGS

AECOM

FIGURE 7

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_6-8ft.mxd 11/24/2020

N

AOC-16-GP-04
8'-9', 1.4

SB-36
8'-10', ND

AOC-07-GP-02
8'-8.5', 0.26

AOC-08-MW-07S
8'-10', 1.5

AOC-03-GP-02
9'-10', ND

AOC-03-GP-05
8'-9', ND

AOC-03-GP-01
9'-10', ND

SB-26
8'-10', 0.18

SB-12
8'-10', 0.076

SB-06
8'-10', 0.21

SB-08
8'-10', ND

SB-03
8'-10', 0.28

AOC-14-GP-05
7.8'-8.2', 0.16

AOC-14-MW-21I
8.2'-8.4', 0.29

AOC-14-MW-21I
9'-10', 0.56

AOC-13-SB-08
8'-9', ND

SB-29
8'-10', ND

AOC-13-SB-05
8.5'-9.5', ND

AOC-13-SB-07
8'-9', ND

AOC-10-SB-04
8'-10', ND

AOC-11-GP-04
8'-9', ND

AOC-10-SB-14
8'-10', 0.18

MAIN
PARKING
LOT

SB-65
8'-10', ND

KENMORE AVE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100

50' Grid

Area of Concern

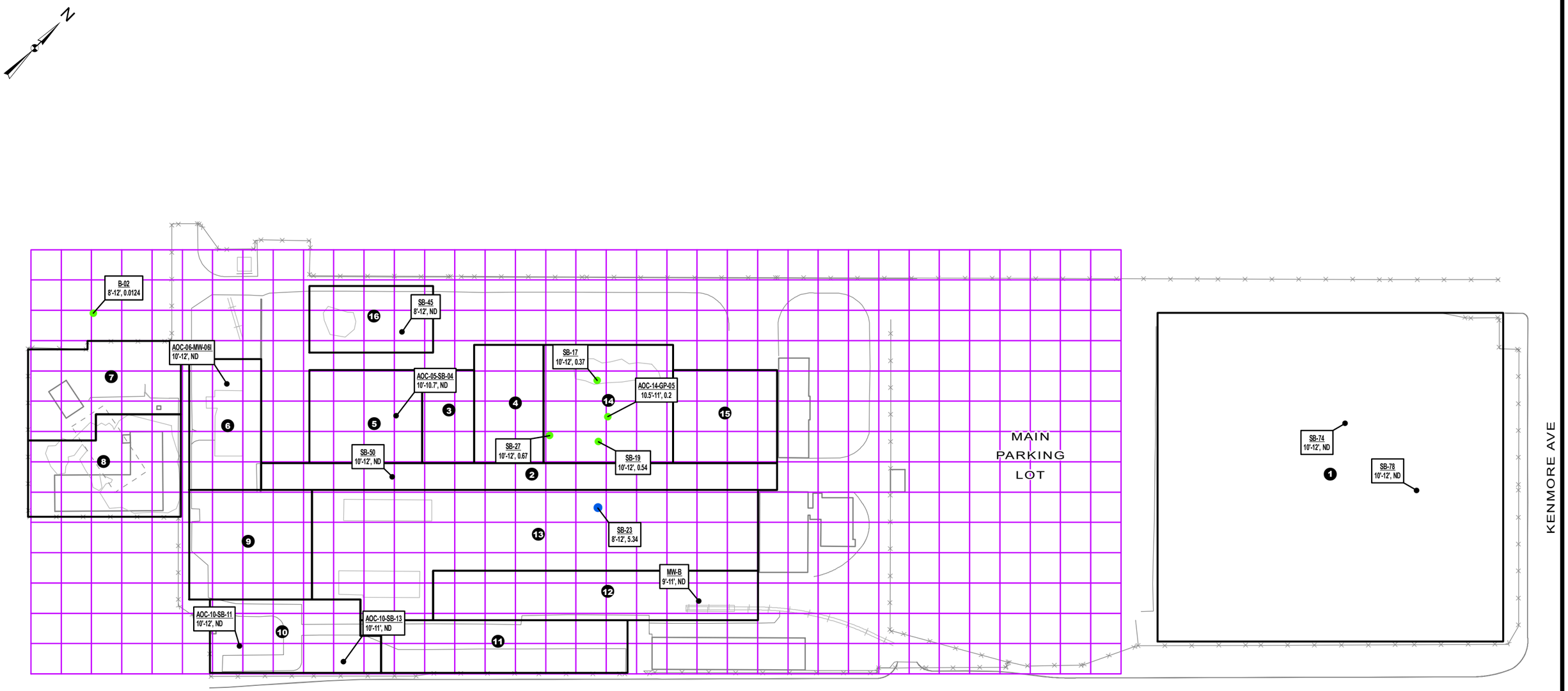
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 8'-10' BGS

AECOM

FIGURE 8

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_8-10ft.mxd 9/30/2020



Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- 50' Grid
- Area of Concern

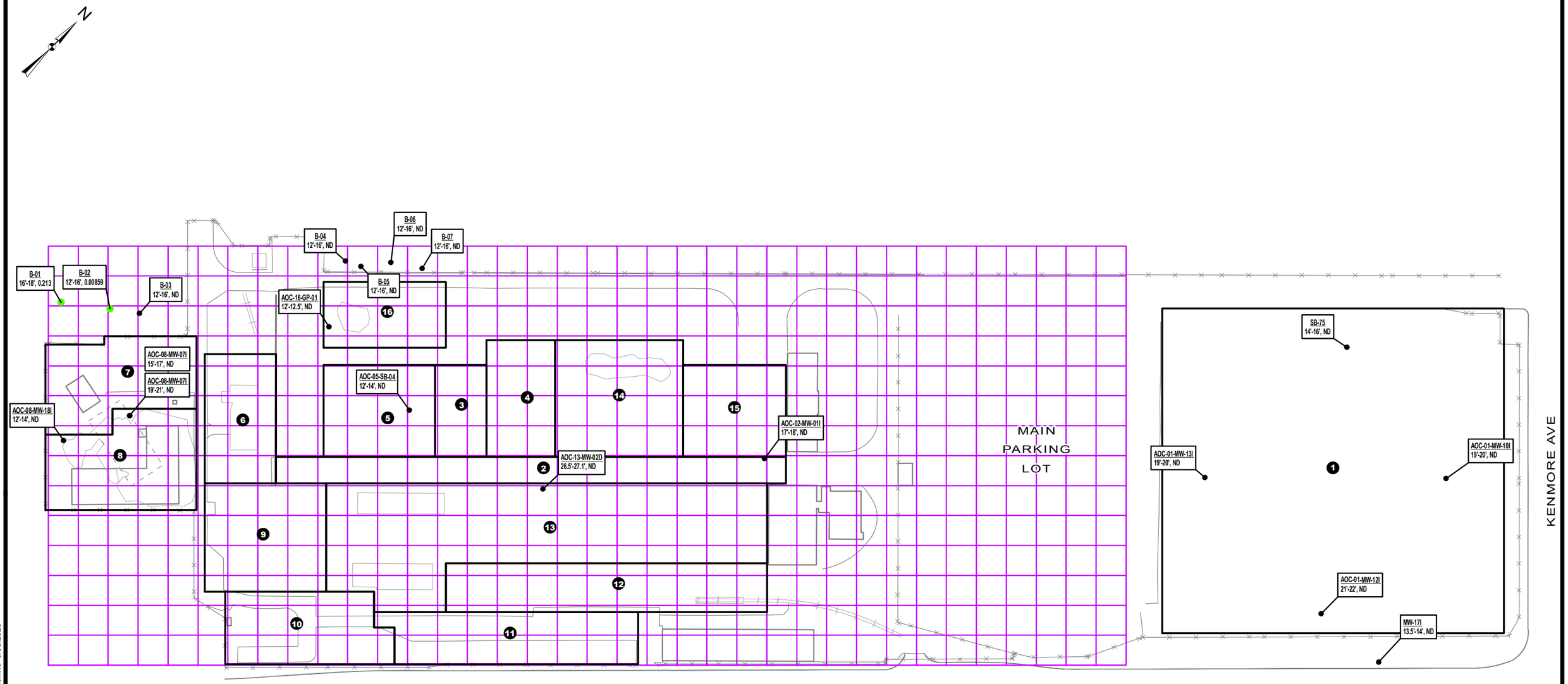
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 10'-12' BGS

AECOM

FIGURE 9

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_10-12ft.mxd 9/30/2020



Legend

Total PCB Concentration (mg/kg):

- ND
- < 1
- 1 - 25
- 25 - 50
- 50 - 100
- > 100
- 50' Grid
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL PCBS - 12'-28' BGS

AECOM

FIGURE 10

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL PCBS_Soils_12-28ft.mxd 9/30/2020

N

SS-13
0'-0.16', ND

SS-13
0.5'-2', ND

AOC-16-GP-07
1'-2', 0.22

AOC-16-GP-06
1'-2', 0.53

AOC-16-GP-01
1.2'-1.9', ND

AOC-16-GP-03
1.5'-2', ND

North SB-02
1.2'-2', 0.48

North SB-01
0.8'-1.4', ND

SS-12
0'-0.16', 73.9

SS-12
0.5'-2', 0.113

SS-11
0'-0.16', 29.9

SS-11
0.5'-1.5', 8.56

SS-10
0'-0.16', 96

SS-10
0.5'-2', 1.34

MW-23I
0'-2', 75.87

SS-09
0'-0.16', 7.12

SS-09
0.5'-2', 22.4

SS-08
0'-0.16', 7.58

SS-08
0.5'-2', 0.213

AOC-07-SS-14
0'-0.16', 8.65

AOC-07-GP-01
1'-1.5', ND

AOC-07-GP-05
1'-1.8', 49.14

AOC-06-MW-06I
1'-2', 0.32

AOC-16-GP-02
1'-1.5', 6.71

AOC-05-SB-01
1.5'-2', 0.045

AOC-05-SB-04
1'-2', ND

AOC-03-GP-03
1'-2', 1.801

AOC-14-GP-01
1'-2', ND

AOC-15-GP-03
1'-1.5', ND

AOC-15-GP-04
1'-1.5', ND

AOC-07-GP-04
1'-1.5', 5.272

AOC-06-GP-03
1'-2', 0.068

AOC-05-SB-02
1'-2', ND

AOC-03-GP-02
1'-2', 0.24

AOC-03-GP-05
1.5'-2', 2.575

AOC-04-GP-04
1'-2', 0.165

AOC-14-GP-04
0.8'-1.8', 0.242

AOC-01-TP-09
1'-1.3', 4.75

AOC-08-GP-01
0.5'-1.5', 2.698

AOC-07-GP-02
0.5'-1', 0.164

AOC-06-GP-02
1'-2', ND

AOC-06-GP-01
1.5'-2', 1.557

SB-47
1'-2', 0.0226

AOC-04-GP-03
1.5'-2', ND

AOC-14-GP-05
1.1'-2', ND

AOC-15-GP-02
1'-2', 0.198

MAIN
PARKING
LOT

AOC-07-GP-03
0'-0.5', 18.668

AOC-08-SB-15
0.8'-1.7', 0.8

AOC-06-GP-04
1'-1.5', 1.59

AOC-09-SS-01
0'-0.167', 5.245

AOC-09-GP-05
0'-0.5', 2255.8

AOC-05-GP-01
1'-1.5', 0.0204

AOC-03-GP-01
1'-1.5', 0.2749

AOC-13-MW-02I
1.5'-2', 0.962

AOC-04-GP-02
1'-1.5', ND

AOC-12-GP-07
0.5'-1', 421.7

AOC-09-SS-05
0'-0.5', 109.4

AOC-09-GP-09
1.5'-2', ND

AOC-12-GP-04
1'-2', 0.565

AOC-12-GP-05
1.5'-2', 0.0595

AOC-13-GP-01
1.1'-1.7', ND

AOC-09-SS-02
0'-0.167', 2.597

AOC-09-SS-06
0'-0.167', 7.957

AOC-13-SB-03
1.3'-1.6', 0.071

AOC-13-SB-05
1'-1.5', 0.01

AOC-09-SS-03
0'-0.167', 7.196

AOC-12-GP-01
0.5'-1', 0.758

AOC-12-SS-07
0'-0.167', 121.18

AOC-12-SS-03
0'-0.167', 111.54

AOC-12-SS-01
0'-0.167', 192.63

AOC-09-GP-04
1'-2', 2.1947

AOC-09-SS-07
0'-0.167', 10.582

AOC-12-GP-02
0.5'-1', 0.4758

AOC-09-SS-04
0'-0.167', 4.34

AOC-09-SS-08
0'-0.167', 9.769

AOC-12-GP-03
1'-2', 0.2544

AOC-12-SS-05
0'-0.167', 531.11

AOC-10-SS-03
0'-0.167', 4.042

AOC-10-SB-03
1.5'-2', 0.22

AOC-12-SS-06
0'-0.167', 85.05

AOC-12-SS-02
0'-0.167', 334.994

AOC-10-SS-01
0'-0.167', 8.318

AOC-12-GP-06
1'-1.5', 0.655

AOC-12-GP-08
1'-1.5', 0.124

AOC-12-GP-09
1'-1.5', 0.512

AOC-12-SS-04
0'-0.167', 19.316

AOC-12-GP-11
0'-1.6', 89.16

AOC-10-SB-02
0.5'-1', 11.05

AOC-12-SS-08
0'-0.167', 104.31

AOC-11-SS-02
0'-0.167', 2.255

AOC-10-SS-02
0'-0.167', 7.78

AOC-11-SS-08
0'-0.167', 2.39

AOC-11-SS-04
0'-0.167', 10.431

AOC-11-SS-03
0'-0.167', 2.484

AOC-11-SS-01
0'-0.167', 2.4

SS-02
0'-0.16', 1.73

AOC-10-SB-10
1'-2', 2.244

AOC-10-SB-01
1'-1.5', 2.35

AOC-11-SS-07
0'-0.167', 3.327

SS-01
0'-0.16', 0.91

AOC-11-SS-05
0'-0.167', 4.466

AOC-11-SS-06
0'-0.167', 5.634

SS-01
0.5'-2', 0.11

SS-02
0.5'-2', ND

SS-03
0'-0.16', 3.51

SS-03
0.5'-2', 5.13

SS-04
0'-0.16', 29.4

SS-04
0.5'-1.5', 18.4

SS-05
0'-0.16', 3.4

SS-05
0.5'-2', 9.59

SS-07
0'-0.16', 1.23

SS-07
0.5'-2', 1.47

SS-06
0'-0.16', 2.94

SS-06
0.5'-1.5', 0.36

KENMORE AVE

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500
- 50' Grid
- Test Pit
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 0'-2' BGS

AECOM

FIGURE 11

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_0-2ft.mxd 9/22/2020

N

AOC-16-MW-05I 2'-3', ND
SB-51 1'-3.75', 12.36
SB-54 1'-3', 0.987
SB-53 1'-4', 3.75
AOC-16-GP-05 2'-3', 5.355
AOC-14-GP-03 2'-2.9', ND
North SB-03 1.8'-2.8', ND
AOC-14-GP-02 3'-4', 0.225
AOC-03-GP-07 3'-3.5', ND
AOC-06-MW-06I 2'-3', ND
SB-56 2'-4', 0.0687
AOC-03-GP-06 2'-2.5', 9.29
AOC-14-GP-06 3'-4', 0.024
AOC-14-MW-21I 1.5'-3', 2.879
AOC-08-GP-01 3'-3.5', 16.622
AOC-08-SB-16 2.8'-4', 2.74
AOC-05-MW-04I 2'-3', ND
AOC-05-GP-02 3'-4', ND
AOC-15-GP-06 2'-2.5', 2.82
AOC-06-GP-01 3'-3.5', 0.089
AOC-03-GP-04 1.8'-2.3', 0.2993
AOC-14-GP-08 3'-4', 2.146
AOC-14-GP-07 2.2'-3.2', ND
AOC-15-GP-01 3'-3.5', 0.011
AOC-08-GP-03 3'-3.5', 336.5
AOC-08-SB-15 2'-4', ND
SB-39 1'-3.5', 0.05
AOC-04-GP-01 2'-3', 0.079
AOC-02-MW-01I 1.3'-2.3', 0.05
SB-20 1'-4', 0.0975
AOC-09-GP-01 2'-3', 5.149
AOC-09-GP-05 2.5'-3', 4.576
AOC-09-GP-06 2'-3', 3.035
AOC-02-GP-01 2'-3', 0.159
AOC-02-MW-03I 3'-4', 1.012
AOC-08-SB-14 3'-3.6', 10.29
AOC-08-GP-02 2.5'-3', 3.613
AOC-09-GP-03 1.5'-2.5', 0.453
AOC-09-GP-03 2.5'-3.5', 6.948
AOC-09-GP-07 2.6'-3.6', 4.049
AOC-09-GP-08 2'-2.5', 7.378
AOC-13-MW-19I 2'-3', 20.7
AOC-13-SB-02 1.7'-2.2', 2.15
AOC-13-SB-04 2.3'-2.9', ND
AOC-13-SB-06 2'-3', ND
AOC-09-GP-04 3'-4', 4.16
AOC-10-SB-04 3'-4', 30.85
AOC-10-SB-07 2'-3', ND
AOC-12-MW-09I 2'-3', ND
AOC-12-GP-10 1.8'-2.4', ND
AOC-10-SB-08 2'-3', 12.6
AOC-10-SB-05 2'-3', 0.5636
AOC-10-SB-06 2'-4', 0.1493
AOC-10-SB-09 2'-3', 6.591
AOC-10-MW-08I 3'-4', 23.81
AOC-10-SB-12 2'-3', 1.554
AOC-10-SB-01 2'-2.5', ND
AOC-10-GP-02 2.5'-3.1', 0.065
AOC-10-SB-02 2.5'-3', 0.355
AOC-10-SB-13 2'-4', 9.699
AOC-11-GP-03 2'-3.6', 0.21
AOC-10-GP-01 2.4'-3.4', ND
AOC-11-GP-02 2.4'-3', ND
AOC-11-GP-01 2.1'-2.8', 823.4

MAIN PARKING LOT

MW-22I 0.5'-2.5', ND

SB-66 2'-4', 0.13
AOC-01-MW-11I 2'-4', ND
SB-75 2'-4', 1.33
SB-76 2'-4', 1.624
AOC-01-TP-05 3'-4', 2.258
AOC-01-TP-X09 2'-3', 23.471
AOC-01-TP-X03 3'-3.5', 11.413
AOC-01-TP-X02 2.5'-3', 2.43
SB-74 2'-4', 1.719
AOC-01-TP-10 3'-4', 0.503
AOC-01-TP-08 3'-3.5', 5.134
AOC-01-MW-13I 3'-4', 12.37
AOC-01-TP-11 3'-4', 32.14
SB-78 2'-4', 0.87
AOC-01-TP-14 3'-4', 1.189
SB-63 2'-4', 0.75
AOC-01-TP-X08 3'-3.5', 3.55
AOC-01-MW-10I 2'-3', 1.5166
AOC-01-TP-15 3'-4', 0.951
AOC-01-TP-02 3'-4', 11.493
AOC-01-MW-12I 3'-4', 16.138
AOC-01-TP-23 2.4'-3.4', 16.2842
SB-80 2'-4', 3.55

KENMORE AVE

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500
- 50' Grid
- Test Pit
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 2'-4' BGS

AECOM

FIGURE 12

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_2-4ft.mxd 9/22/2020

N

AOC-16-MW-05I
5'-6', 0.22

AOC-07-GP-01
5'-6', ND

AOC-07-GP-04
5.5'-6', ND

AOC-08-N-TT-11
4'-5', 19.1

AOC-08-N-TT-47
4'-5', 0.45

AOC-08-S-TT-18
4'-4.5', 1.036

AOC-08-N-TT-80
4'-5', 9.291

AOC-08-S-TT-60
4'-5', 83.61

AOC-08-S-TT-86
4'-5', 46.1

AOC-08-GP-02
4'-5', 0.9

AOC-09-GP-01
5'-5.5', 1.26

AOC-09-GP-06
4'-5', 6.92

AOC-09-GP-07
4'-4.5', 0.0086

AOC-09-GP-08
4'-4.5', ND

AOC-10-SB-08
5'-6', 17.17

AOC-10-MW-08I
5'-6', 4.0121

AOC-10-SB-15
4'-5', 67.538

AOC-10-SB-14
4'-6', 8.977

AOC-05-GP-03
4'-4.5', ND

AOC-05-MW-04I
5'-6', 1.1173

AOC-05-GP-04
4'-5', 0.011

AOC-03-GP-07
5'-6', ND

AOC-04-GP-04
4'-5', ND

AOC-03-GP-04
5'-5.6', 1.449

AOC-04-GP-02
4'-5', ND

AOC-02-GP-01
4'-5', ND

AOC-02-MW-03I
5'-6', 1.3

AOC-13-SB-01
4'-4.5', ND

AOC-13-SB-01
5'-6', ND

AOC-12-MW-09I
4'-5', 0.56

MW-C
3'-5', 0.0134

SB-33
4'-6', 0.1419

SB-41
3.5'-6', 0.0217

AOC-12-GP-12
4'-5', ND

AOC-13-GP-03
4'-5', ND

SB-09
4'-6', 0.016

AOC-13-SB-07
5'-5.5', 0.0061

SB-04
4'-6', 0.268

SB-13
4'-6', 0.5056

AOC-15-GP-04
4'-5', ND

AOC-15-GP-01
4'-5', ND

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

MAIN
PARKING
LOT

KENMORE AVE

AOC-01-TP-X01
4'-4.5', 1.291

AOC-01-TP-X07
4'-5', 14.255

SB-69
4'-6', 0.859

AOC-01-TP-X06
4'-5', 97.25

SB-72
4'-6', 1.3

AOC-01-TP-20
4'-5', 24.49

AOC-01-TP-X04
4.8'-5', 0.8269

AOC-01-TP-X05
4'-5', 6.268

SB-70
4'-6', 2.166

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

50' Grid

Test Pit

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 4'-6' BGS

AECOM

FIGURE 13

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_4-6ft.mxd 9/24/2020

N

MW-E
5'-7', 0.382

AOC-16-GP-03
6'-7', 0.035

AOC-16-GP-06
6'-7', ND

AOC-16-GP-02
6'-7', ND

AOC-16-GP-05
6'-7', ND

MW-F
5'-7', 0.3815

AOC-03-GP-03
7'-8', ND

AOC-06-GP-02
7'-8', 0.0682

MW-D
5'-7', 0.0338

AOC-08-SB-16
6'-8', ND

AOC-06-GP-03
7'-8', ND

AOC-05-GP-02
7'-8', 0.568

SB-02
6'-8', 0.1889

AOC-07-GP-03
6'-6.5', 0.3858

AOC-05-SB-01
6'-7', 0.0203

AOC-14-GP-07
7'-8', 0.035

AOC-05-SB-03
7'-8', ND

SB-57
6'-8', ND

AOC-05-SB-02
6'-7', ND

MW-A
5'-7', 0.5825

AOC-06-GP-04
6'-7', ND

AOC-08-GP-03
7'-8', 0.7977

AOC-13-MW-02I
7'-8', 0.665

AOC-09-GP-05
6'-7', 4.123

AOC-09-GP-02
7'-8', 0.031

AOC-09-GP-09
6'-7', ND

SB-21
6'-8', 0.2346

SB-10
6'-8', 0.0235

AOC-13-GP-04
6.4'-7.4', ND

AOC-13-GP-02
6'-7.5', ND

AOC-12-GP-04
6'-6.5', ND

AOC-12-GP-08
7'-8', 0.074

SB-30
4'-8', ND

AOC-10-SB-03
7'-8', 0.0088

AOC-12-GP-05
7'-8', ND

AOC-13-MW-20I
6'-6.4', 62.87

AOC-12-GP-09
7'-8', 0.027

AOC-12-GP-02
6'-7', ND

MW-C
3'-7', 0.0134

AOC-11-GP-03
6'-7', 0.94

AOC-12-GP-06
7'-8', ND

MAIN
PARKING
LOT

AOC-01-MW-11I
6'-8', 0.405

SB-61
6'-8', 2.372

KENMORE AVE

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500

50' Grid

Test Pit

Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 6'-8' BGS

AECOM

FIGURE 14

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_6-8ft.mxd 9/24/2020

N

AOC-16-GP-04
8'-9', ND

SB-36
8'-10', 0.015

SB-26
8'-10', 0.0917

SB-06
8'-10', 0.5223

AOC-07-GP-02
8'-8.5', ND

AOC-08-MW-07S
8'-10', 6.82

AOC-03-GP-02
9'-10', ND

AOC-03-GP-05
8'-9', 0.508

SB-12
8'-10', 2.626

AOC-14-GP-05
7.8'-8.2', 0.993

SB-08
8'-10', 0.3813

AOC-03-GP-01
9'-10', ND

AOC-14-MW-21I
8.2'-8.4', 8.05

SB-03
8'-10', 4.057

AOC-14-MW-21I
9'-10', 1.464

AOC-13-SB-08
8'-9', ND

SB-29
8'-10', 0.0413

AOC-13-SB-07
8'-9', ND

AOC-13-SB-05
8.5'-9.5', ND

AOC-10-SB-04
8'-10', 0.9848

AOC-11-GP-04
8'-9', ND

AOC-10-SB-14
8'-10', 1.1289

MAIN
PARKING
LOT

SB-65
8'-10', 0.0709

KENMORE AVE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500
- 50' Grid
- Test Pit
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 8'-10' BGS

AECOM

FIGURE 15

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_8-10ft.mxd 9/24/2020

N

SB-45
8'-12', 1.46

AOC-06-MW-06I
10'-12', ND

SB-17
10'-12', 4.227

AOC-05-SB-04
10'-10.7', 0.27

AOC-14-GP-05
10.5'-11', 1.739

SB-27
10'-12', 1.188

SB-19
10'-12', 1.29

SB-50
10'-12', 0.0312

SB-23
8'-12', 4.511

MW-B
9'-11', 0.0266

AOC-10-SB-11
10'-12', 0.804

AOC-10-SB-13
10'-11', 0.191

MAIN
PARKING
LOT

SB-74
10'-12', ND

SB-78
10'-12', ND

KENMORE AVE

Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500
- 50' Grid
- Test Pit
- Area of Concern

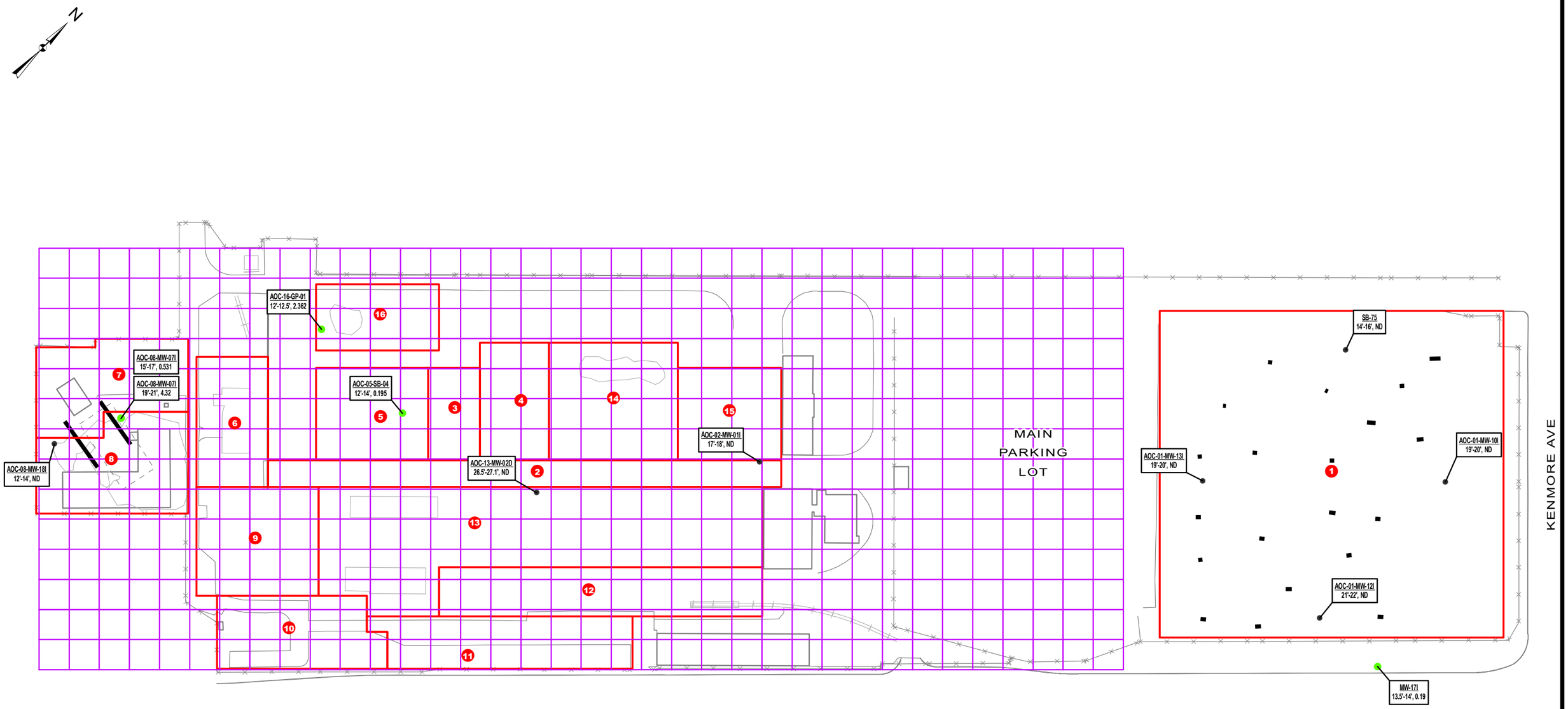
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 10'-12' BGS

AECOM

FIGURE 16

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_10-12ft.mxd 9/22/2020



Legend

Total SVOC Concentration (mg/kg):

- ND
- < 10
- 10 - 100
- 100 - 500
- > 500
- 50' Grid
- Test Pit
- Area of Concern

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
TOTAL SVOCS - 12'-28' BGS

AECOM

FIGURE 17

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\TOTAL SVOCS_Soils_12-28ft.mxd 9/24/2020

N

ENVIRONMENTAL BUILDING

FORMER TANK FARM

ADMINISTRATION BUILDING

MAIN PARKING LOT

CAFETERIA

NET SHAPE GEAR WAREHOUSE

KENMORE AVE

Existing Storm Sewer System

UAW-GM BLVD

Exisiting permitted discharge to river

Existing Storm Sewer System

Legend

- Existing Storm Sewer System
- Proposed Onsite Sewer System
- Sewer to be cleaned and sealed
- Areas of Concern

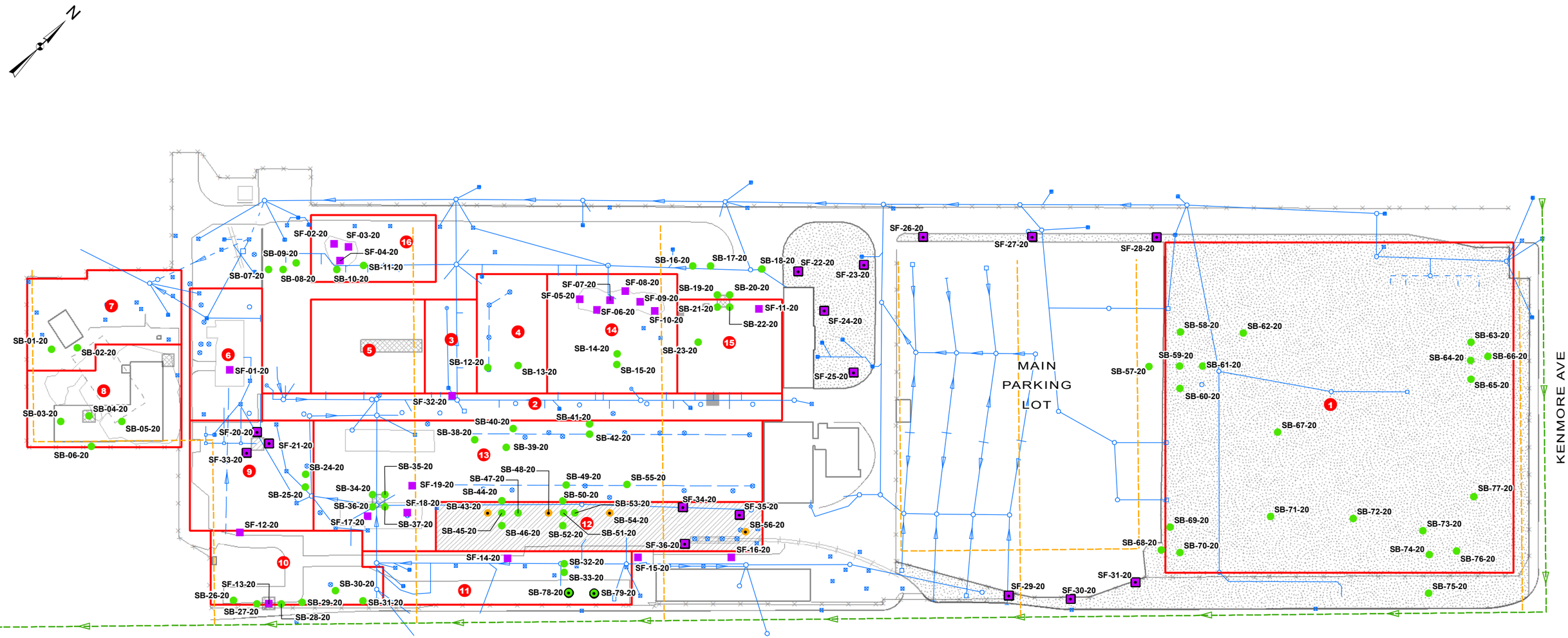
200 0 200 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
SURFACE WATER CONTROL

AECOM

FIGURE 18

J:\Projects\11176989\GIS\MAPS\04 Surface Water Control.mxd 9/9/2020



Legend

- Proposed Surface Soil Sample (TCL Semivolatiles, TAL Metals, Mercury, and PCB Analysis)
- Proposed Surface Soil Sample (PCB Analysis Only)
- Proposed Subsurface Soil Sample (TCL Semivolatiles, TAL Metals, Mercury at Surface Only, and PCB Analysis at All Depths)
- Proposed Subsurface Soil Sample (TCL Semivolatiles, TAL Metals, Mercury, and PCB Analysis)
- Proposed Subsurface Soil Sample (PCB Analysis Only)
- Area of Concern
- One-foot Surface Cover
- Surface Soil Excavation
- Subsurface Soil Excavation
- Concrete or Brick Removal

NOTES:
1. The Surface Water, Sediment, Concrete, and Test Pit Locations will be determined in the field and after consulation with NYSDEC.
2. Excavation areas based upon data presented in the RI and evaluated as part of the Feasibility Study (AECOM, September 2019).
3. Based on Field Screening Results 23 locations will be selected for TCL Volatile analysis.

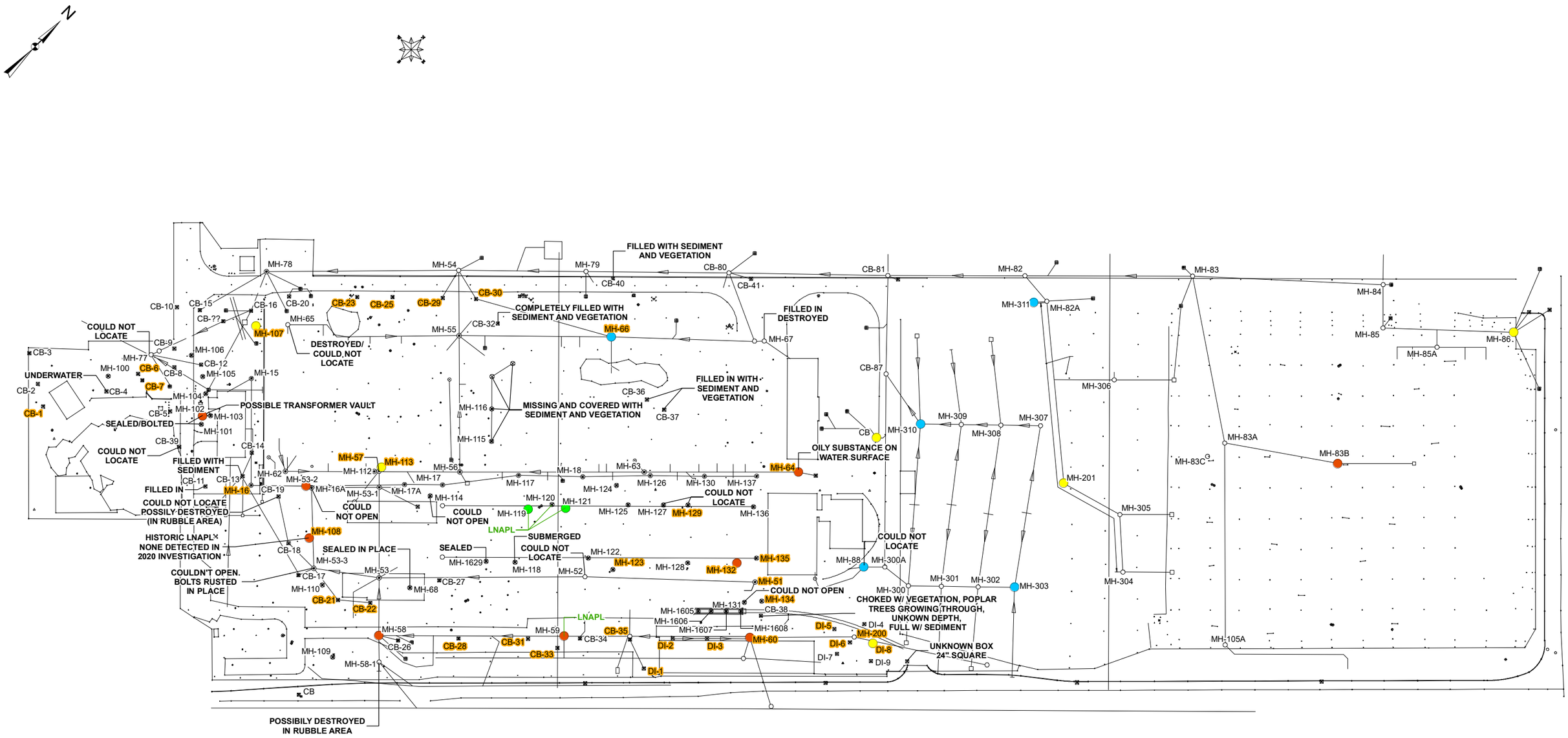
160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
PROPOSED SAMPLING LOCATIONS

AECOM

FIGURE 19

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\Proposed_Sampling_Location_Rev.mxd 11/3/2020



Legend

- Proposed Sewer Water and Sediment Sample Location
- Proposed Sewer Water and Sediment Sample Location with POTW Water Quality Parameters
- Proposed LNAPL Sample Location
- Proposed Surface WaterSample Location
- CB-1 Sheen on Water

MH-59: 3-4" LNAPL
MH-119: 8" LNAPL
MH-120: 6" LNAPL
MH-121: 3" LNAPL

160 0 160 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
PROPOSED SEWER WATER, SEDIMENT, SURFACE WATER, AND LNAPL SAMPLE LOCATIONS

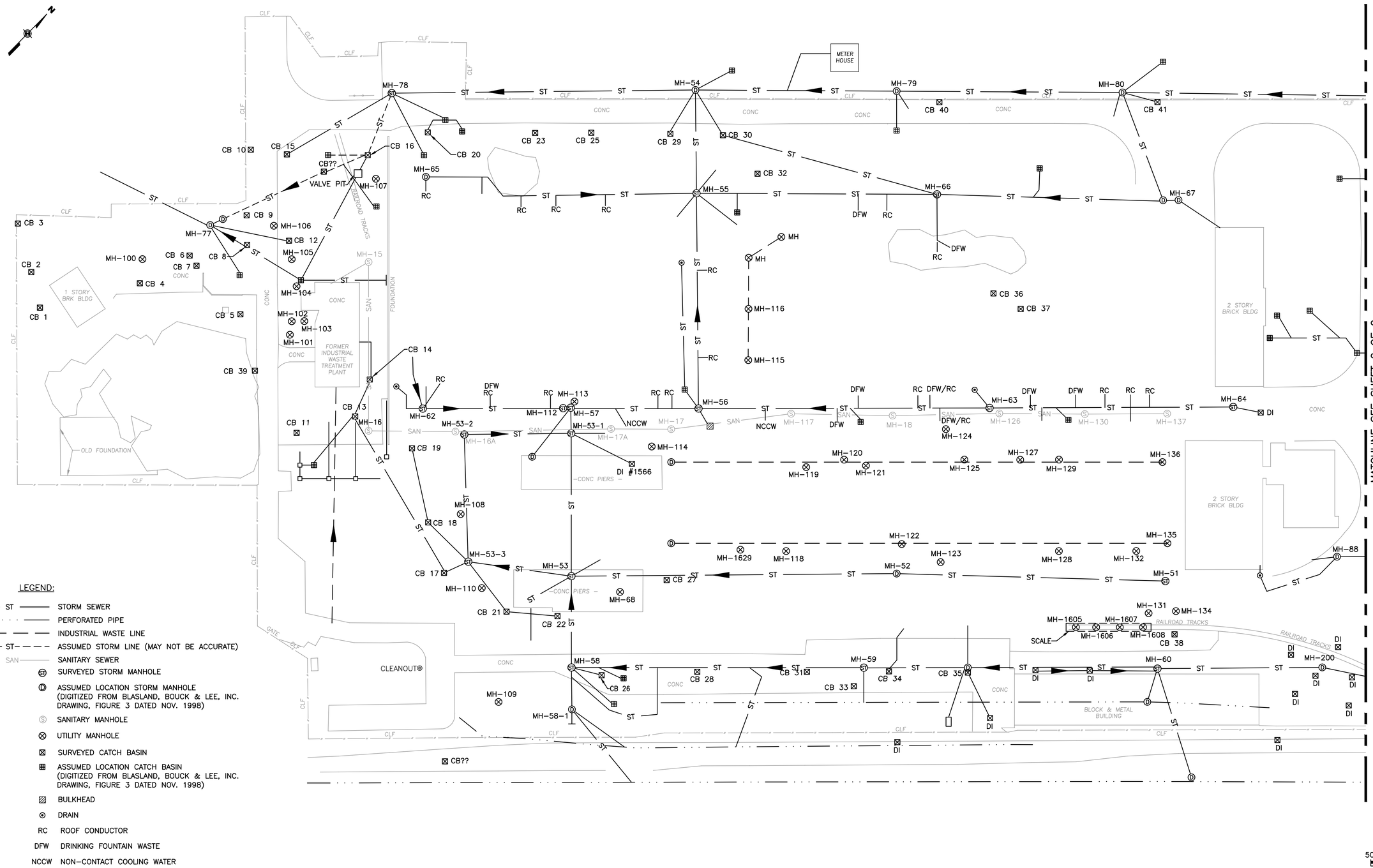
AECOM

FIGURE 20

C:\Users\maxwell.reis\Documents\Tonawanda_Forge\MAPS\AECOM_2020_Proposed_Sampling_Locations_REV.mxd 11/20/2020

PLATES

Per memo from the owner of this property that is attached with the original deed of transfer of the property, all rights to the information contained on this drawing is retained by the owner.



MATCHLINE SEE SHEET 2 OF 2

LEGEND:

- ST — STORM SEWER
- PERFORATED PIPE
- INDUSTRIAL WASTE LINE
- ST — ASSUMED STORM LINE (MAY NOT BE ACCURATE)
- SAN — SANITARY SEWER
- (ST) SURVEYED STORM MANHOLE
- (D) ASSUMED LOCATION STORM MANHOLE (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- (S) SANITARY MANHOLE
- ⊗ UTILITY MANHOLE
- ⊠ SURVEYED CATCH BASIN
- ▦ ASSUMED LOCATION CATCH BASIN (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- ▨ BULKHEAD
- ⊙ DRAIN
- RC ROOF CONDUCTOR
- DFW DRINKING FOUNTAIN WASTE
- NCCW NON-CONTACT COOLING WATER

DRAFT

50' 0 50'
SCALE IN FEET

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: .
DRAWN BY: RAL
CHECKED BY: .
PROJ. ENGR. .

AECOM
257 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176989

TONAWANDA FORGE
TOWN OF TONAWANDA NEW YORK

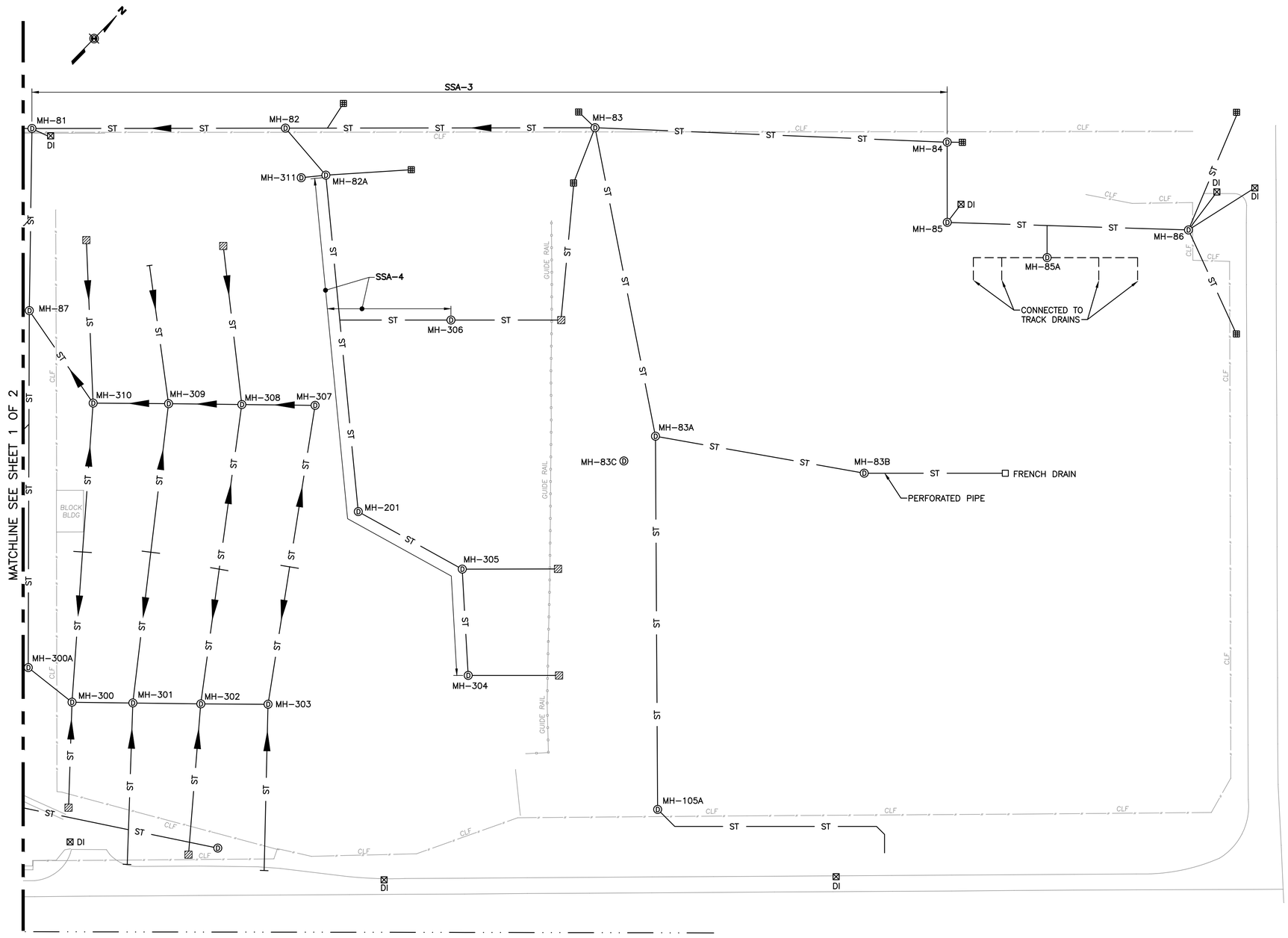
TONAWANDA FORGE
SITE #915274

SEWER SYSTEM
(SHEET 1 OF 2)

Scale: AS SHOWN | Date: MAY 2014 | PLATE 1

This drawing was originally created by AECOM and is the property of AECOM. Any unauthorized use of this drawing is prohibited by law.

J:\Projects\11176989\CADD\C-001 - C-002.dwg, SHEET 1, 1:2.58, 8/1/14 -1-RAL



LEGEND:

- ST — STORM SEWER
- PERFORATED PIPE
- INDUSTRIAL WASTE LINE
- ST — ASSUMED STORM LINE (MAY NOT BE ACCURATE)
- SAN — SANITARY SEWER
- SURVEYED STORM MANHOLE
- ASSUMED LOCATION STORM MANHOLE (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- S — SANITARY MANHOLE
- UTILITY MANHOLE
- SURVEYED CATCH BASIN
- ASSUMED LOCATION CATCH BASIN (DIGITIZED FROM BLASLAND, BOUCK & LEE, INC. DRAWING, FIGURE 3 DATED NOV. 1998)
- BULKHEAD
- DRAIN
- RC — ROOF CONDUCTOR
- DFW — DRINKING FOUNTAIN WASTE
- NCCW — NON-CONTACT COOLING WATER

DRAFT

50' 0 50'
SCALE IN FEET

Any copies from the original of this drawing that are produced with the original seal or signature of the Professional Engineer or Land Surveyor shall be considered as a valid copy.

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: .
DRAWN BY: RAL
CHECKED BY: .
PROJ. ENGR. .

AECOM
57 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176989

TONAWANDA FORGE
TOWN OF TONAWANDA NEW YORK

TONAWANDA FORGE
SITE #915274

SEWER SYSTEM
(SHEET 2 OF 2)

Scale: AS SHOWN | Date: MAY 2014 | PLATE 1

The drawing was computer generated and drafted and any revisions should be made by the owner's authorized agent.

J:\Projects\11176989\CADD\C-001 - C-002.dwg, SHEET 2, 12:58, 8/1/14 -1-RAL

ENVIRONMENTAL BUILDING

FORMER TANK FARM

ADMINISTRATION BUILDING

CAFETERIA

NET SHAPE GEAR WAREHOUSE

MATCHLINE - SEE SHEET 2

Legend

- Monitoring Well
- Surface Water Sample
- Chip Sample (Concrete, Brick, & Asphalt)
- Geoprobe Sample
- Grab Sample (Bulk Solids)
- Wipe Sample
- Piezometer
- Soil Boring
- Surface Soil Sample
- AST & Pipe Sample
- Test Trench Sample
- Standpipe Sample
- Manhole
- Catch Basin
- Test Pit
- Area of Concern
- Debris/Waste Pile (Removed Feb. 2016)

100 0 100 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
RI SAMPLING LOCATIONS

AECOM

PLATE 2
(SHEET 1 OF 2)

C:\Users\maxwell.lee\Documents\Tonawanda_Forge\MAPS\PLATE 02 RI MW SB CC SS LOCATIONS.mxd 11/24/2020

MATCHLINE - SEE SHEET 1

SS-11

SS-10

MW-23I

SS-09

SS-08

AOC-01-TP-05

AOC-01-MW-11I

AOC-01-MW-11S

AOC-01-TP-09

AOC-01-TP-10

AOC-01-TP-X02

AOC-01-MW-14S

AOC-01-TP-X10

AOC-01-LF-SW-01

AOC-01-TP-08

AOC-01-TP-11

AOC-01-TP-X03

AOC-01-TP-X09

AOC-01-TP-X01

1

AOC-01-MW-13S

AOC-01-MW-13I

AOC-01-MW-10I

AOC-01-MW-10S

SS-07

AOC-01-TP-14

AOC-01-TP-X08

AOC-01-TP-15

AOC-01-TP-02

AOC-01-TP-20

AOC-01-TP-X07

AOC-01-TP-X04

SS-06

AOC-01-TP-X06

AOC-01-MW-12S

AOC-01-MW-12I

AOC-01-TP-23

AOC-01-TP-X05

AOC-01-MW-15S

SS-05

SS-04

MW-J

MW-17I

SS-03

PARK LOT WATER

MAIN PARKING LOT

MW-22S

MW-22I

KENMORE AVE

UAW-GM BLVD

Legend

- Monitoring Well
- Surface Water Sample
- Chip Sample (Concrete, Brick, & Asphalt)
- Geoprobe Sample
- Grab Sample (Bulk Solids)
- Wipe Sample
- Piezometer
- Soil Boring
- Surface Soil Sample
- AST & Pipe Sample
- Test Trench Sample
- Standpipe Sample
- Manhole
- Catch Basin
- Test Pit
- 1 Area of Concern
- 1 Debris/Waste Pile (Removed Feb. 2016)

100 0 100 Feet

NYSDEC TONAWANDA FORGE
TOWN OF TONAWANDA, NEW YORK
RI SAMPLING LOCATIONS

AECOM

PLATE 2
(SHEET 2 OF 2)

C:\Users\mrowell.test\Documents\Tonawanda_Forge\MAPS\PLATE 02 RI MW EB GC SS LOCATIONS.mxd 11/24/2020

APPENDIX A

Generic Field Activities Plan

Avalable Upon Request

APPENDIX B

Generic Quality Assurance Project Plan

Avalable Upon Request

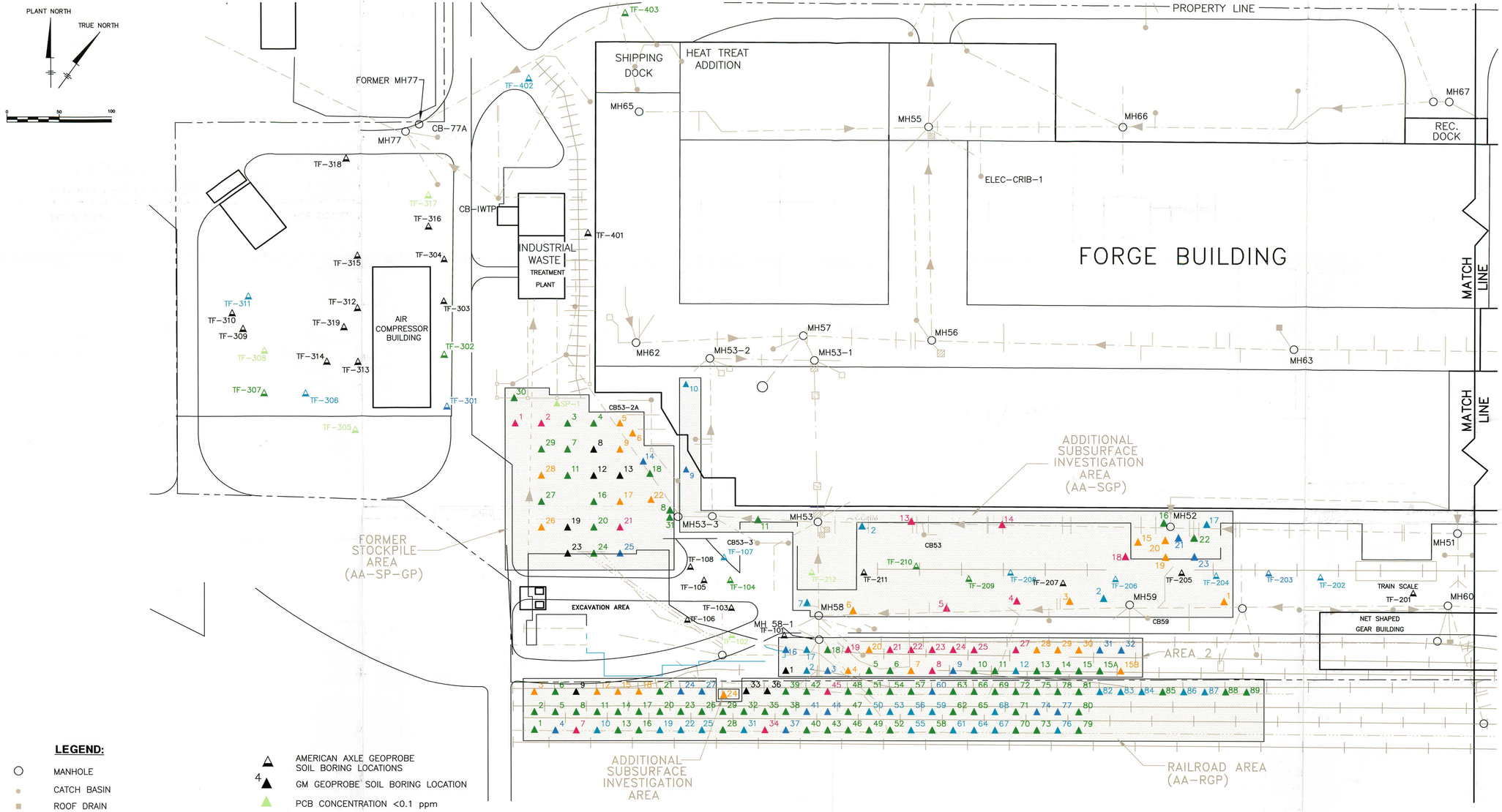
APPENDIX C

Site Specific Health and Safety Plan

Avalable Upon Request

APPENDIX D

Immunoassay Results



LEGEND:

- MANHOLE
- CATCH BASIN
- ROOF DRAIN
- FLOOR DRAIN
- BULKHEAD INSTALLED BY OTHERS
- BULKHEAD INSTALLED IN NOVEMBER 1998
- CONCRETE FOUNDATION OBSTRUCTION
- PROPERTY LINE
- STORM SEWER PIPING
- PERFORATED PIPE
- INDUSTRIAL WASTE LINE
- DIRECTION OF FLOW
- PIPING REMOVED

- AMERICAN AXLE GEOPROBE SOIL BORING LOCATIONS
- 4 GM GEOPROBE SOIL BORING LOCATION
- PCB CONCENTRATION <0.1 ppm
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1–5 ppm
- PCB CONCENTRATION 5–10 ppm
- PCB CONCENTRATION 10–50 ppm
- PCB CONCENTRATION >50 ppm

ppm PARTS PER MILLION
PCB POLYCHLORINATED BIPHENYL

LOCATIONS IN BLACK (NO COLOR) INDICATE SAMPLE WAS NOT TESTED FOR PCB's.

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. THIS DRAWING WAS REPRODUCED FROM FIGURE 3 IN THE PHASE III EXTENT OF CONTAMINATION STUDY PREPARED BY BLASLAND, BOUCK & LEE (BB&L), DATED 4/5/99.
3. REFERENCE: HALEY & ALDRICH DRAWING BUFFEXPL.DWG, FILE NO. 70464-051. APPROXIMATE LOCATIONS OF SITE FEATURES WERE ADDED BASED ON OBSERVATIONS MADE BY HALEY & ALDRICH, INC.
4. REFERENCE: CHEV. DRAWINGS; PEF-D2, 9/15/55, PEF-B-234, 4/27/66, PEF-D-5, 9/1955, PEF-B-202, 5/24/85.
5. REFERENCE: HARLEY, ELLINGTON, CONWN, AND STIRTON, INC. JOB No. 1830-A DWG. No. MI AND JOB No. 1830-B DWG No. MI
6. OFFICE OF J. FRUCHTBAUM JOB No. 4653, SHEET U-1

No	Revision	Date	Initial

Approved

GENERAL MOTORS POWERTRAIN GROUP
TONAWANDA ENGINE PLANT

BB&L (FORGE) RAILROAD DRAINAGE LINE INVESTIGATION

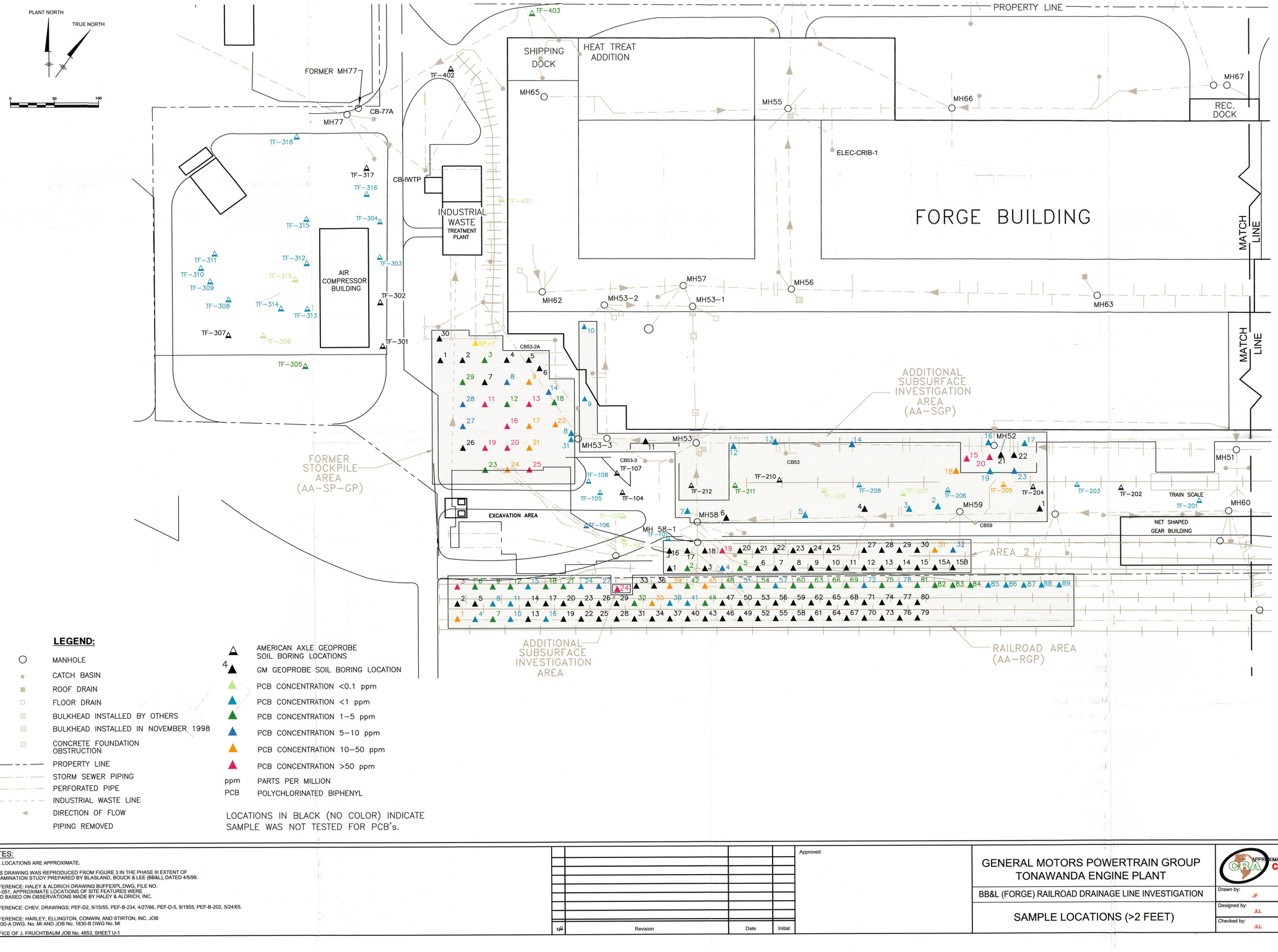
SAMPLE LOCATIONS (0-2 FEET)

APPROXIMATE SCALE IN FEET

CONESTOGA-ROVERS & ASSOCIATES

Drawn by:	Scale:	Date:	File No.:	Rev.No.:
JF	AS SHOWN	NOVEMBER 2000	GN-002	1
Designed by: JLL				
Checked by: JLL	Field book:	Project No.: 17056-12	Drawing No.: 2	

17056-12(011)NOV 06/2000



LEGEND:

- MANHOLE
- CATCH BASIN
- ROOF DRAIN
- FLOOR DRAIN
- BULKHEAD INSTALLED BY OTHERS
- BULKHEAD INSTALLED IN NOVEMBER 1998
- CONCRETE FOUNDATION OBSTRUCTION
- PROPERTY LINE
- STORM SEWER PIPING
- PERFORATED PIPE
- INDUSTRIAL WASTE LINE
- DIRECTION OF FLOW
- PIPING REMOVED

- AMERICAN AXLE GEOPROBE SOIL BORING LOCATIONS
- GM GEOPROBE SOIL BORING LOCATION
- PCB CONCENTRATION <0.1 ppm
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1–5 ppm
- PCB CONCENTRATION 5–10 ppm
- PCB CONCENTRATION 10–50 ppm
- PCB CONCENTRATION >50 ppm

ppm PARTS PER MILLION
PCB POLYCHLORINATED BIPHENYL

LOCATIONS IN BLACK (NO COLOR) INDICATE SAMPLE WAS NOT TESTED FOR PCB's.

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. THIS DRAWING WAS REPRODUCED FROM FIGURE 3 IN THE PHASE III EXTENT OF CONTAMINATION STUDY PREPARED BY BLASLAND, BOUCK & LEE (BB&L), DATED 4/5/99.
3. REFERENCE: HALEY & ALDRICH DRAWING BUFFEXPL.DWG, FILE NO. 70464-051, APPROXIMATE LOCATIONS OF SITE FEATURES WERE ADDED BASED ON OBSERVATIONS MADE BY HALEY & ALDRICH, INC.
4. REFERENCE: CHEV. DRAWINGS; PEF-D2, 9/15/55, PEF-B-234, 4/27/66, PEF-D-5, 9/1955, PEF-B-202, 5/24/65.
5. REFERENCE: HARLEY, ELLINGTON, CONWIN, AND STIRTON, INC. JOB No. 1830-A DWG. No. MI AND JOB No. 1830-B DWG No. MI
6. OFFICE OF J. FRUCHTBAUM JOB No. 4653, SHEET U-1

No.	Revision	Date	Initial

Approved

GENERAL MOTORS POWERTRAIN GROUP
TONAWANDA ENGINE PLANT

BB&L (FORGE) RAILROAD DRAINAGE LINE INVESTIGATION

SAMPLE LOCATIONS (>2 FEET)

APPROXIMATE SCALE IN FEET

CONESTOGA-ROVERS & ASSOCIATES

Drawn by: JF	Scale: AS SHOWN	Date: NOVEMBER 2000	File No.: GN-002A	Rev.No.: 1
Designed by: JLL				
Checked by: JLL	Field book:	Project No.: 17056-12	Drawing No.: 2A	

17056-12(011)NOV 06/2000

BLDG. NORTH
TRUE NORTH

0 100 200
SCALE IN FEET

DU PONT

DU PONT
PARKING

PIPE TRESTLE

PROPERTY LINE

STORM SEWER
INTERCEPTOR SYSTEM

GRIT SEP.

OWS

PARKING AREA

NORTH DOCK "B"

IWTP

WT

POWER PLANT

PROPERTY LINE

PARKING AREA

PARKING AREA

FORMER WWTP
SETTLING TANKS
(DEMOLISHED 1998)

PC & L
BUILDING

FORMER
SCRAP PITS

G. M. POWER TRAIN
MOTOR PLANT 1

RIVER PUMP
HOUSE

SOUTH BOUND NYS I-190

NORTH BOUND NYS I-190

RIVER ROAD

PARKING AREA

FORMER
SCRAP PITS

N I A G A R A R I V E R

PARKING AREA

COOLANT FILTRATION BUILDING

C.W.

PARKING AREA

PROPERTY LINE

EDGAR AVE.

STORAGE
AREA

NYS THRUWAY

RIVER ROAD

GROVER PL.

TONAWANDA ST.

IRENE ST.

PROPERTY LINE

HELICOPTER
LANDING PAD

UNPAVED

PROPERTY LINE

VULCAN ST.

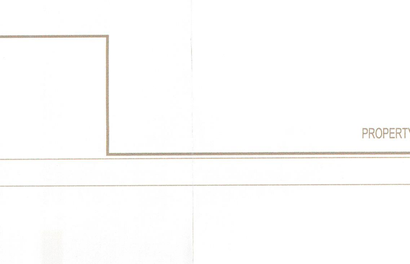
LEGEND

- ACTIVE RAILROAD LINES
- HISTORICAL RAILROAD LINES
- POTENTIAL AREAS OF INTEREST
- AREAS OF FURTHER INVESTIGATION (THESE AREAS ARE RECOMMENDED TO BE FURTHER INVESTIGATED TO EVALUATE ANOMALOUS DETECTIONS)

PCB CONCENTRATIONS:

- AUGER REFUSAL/NOT ACCESSIBLE
- ND = < 1.0 ppm (mg/kg)
- 1.0 – 5.0 ppm (mg/kg)
- 5.0 – 10 ppm (mg/kg)
- 10 – 50 ppm (mg/kg)
- > 50 ppm (mg/kg)

KEY MAP



NOTES:

1. BASEMAP REFERENCE "GMPTG TONAWANDA SITE PLAN," TONAWANDA, NY, PREPARED BY: LAUER-MANGUSO & ASSOCIATES ARCHITECTS, DWG. NO.: GM-C-01-K, DATE: 4/20/98.
2. BASE DRAWINGS PROVIDED BY GMPTG ENGINEERING DEPT., TONWANDA, NY, DATE: 3/99 AND THE IT CORPORATION, GRAND ISLAND, NY, DATE: 8/00.
3. ALL DIMENSIONS ARE APPROXIMATE.

№	Revision	Date	Initial

Approved

GENERAL MOTORS POWERTRAIN GROUP
TONAWANDA ENGINE PLANT

RAILROAD DRAINAGE LINE INVESTIGATION

FIELD SCREENING RESULTS (0-4 FT)

CONESTOGA-ROVERS & ASSOCIATES

Drawn by:	Scale:	Date:	File №:	Rev.№:
JF	AS SHOWN	NOVEMBER 2000	GN-003	1
Designed by: JLL				
Checked by: JLL	Field book:	Project №: 17056-12	Drawing №: 3	

17056-12(011)NOV 06/2000

0 100 200
SCALE IN FEET

TRUE NORTH
BLDG. NORTH

PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE

15 ACRES
PARKING
REC. AREA
FORMER SCRAP PITS
WATER TANK
FIRE PREVENTION BLDG
(AMERICAN AXLE OPERATOR BLDG)

G. M. POWER TRAIN
MOTOR PLANT 4

EXIST. CONCRETE PV'MT.
FORMER WWTP
SETTLING TANKS
(DEMOLISHED 1998)

NITROGEN BULK TANK
ALUM CHIP SILO
PARKING AREA
115KVSUB STATION

AMERICAN AXLE & MANUFACTURING

PARKING AREA

EXIST. CONCRETE PV'MT.

KENMORE AVE.

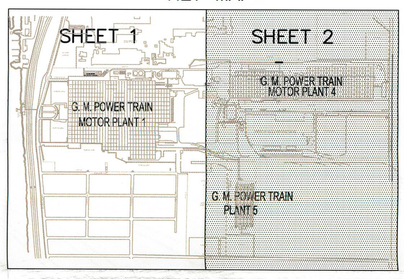
G. M. POWER TRAIN
PLANT 5

ALUM CHIP SILO

PARKING

PROPERTY LINE

KEY MAP



LEGEND

- ACTIVE RAILROAD LINES
- HISTORICAL RAILROAD LINES
- POTENTIAL AREAS OF INTEREST
- AREAS OF FURTHER INVESTIGATION (THESE AREAS ARE RECOMMENDED TO BE FURTHER INVESTIGATED TO EVALUATE ANOMALOUS DETECTIONS)

PCB CONCENTRATIONS:

- AUGER REFUSAL/NOT ACCESSIBLE
- ND = < 1.0 ppm (mg/kg)
- 1.0 – 5.0 ppm (mg/kg)
- 5.0 – 10 ppm (mg/kg)
- 10 – 50 ppm (mg/kg)
- > 50 ppm (mg/kg)

NOTES:

1. BASEMAP REFERENCE "GMPTG TONAWANDA SITE PLAN," TONAWANDA, NY, PREPARED BY: LAUER-MANGUSO & ASSOCIATES ARCHITECTS, DWG. NO.: GM-C-01-K, DATE: 4/20/98.
2. BASE DRAWINGS PROVIDED BY GMPTG ENGINEERING DEPT., TONWANDA, NY, DATE: 3/99 AND THE IT CORPORATION, GRAND ISLAND, NY, DATE: 8/00.
3. ALL DIMENSIONS ARE APPROXIMATE.

No	Revision	Date	Initial

Approved

GENERAL MOTORS POWERTRAIN GROUP
TONAWANDA ENGINE PLANT

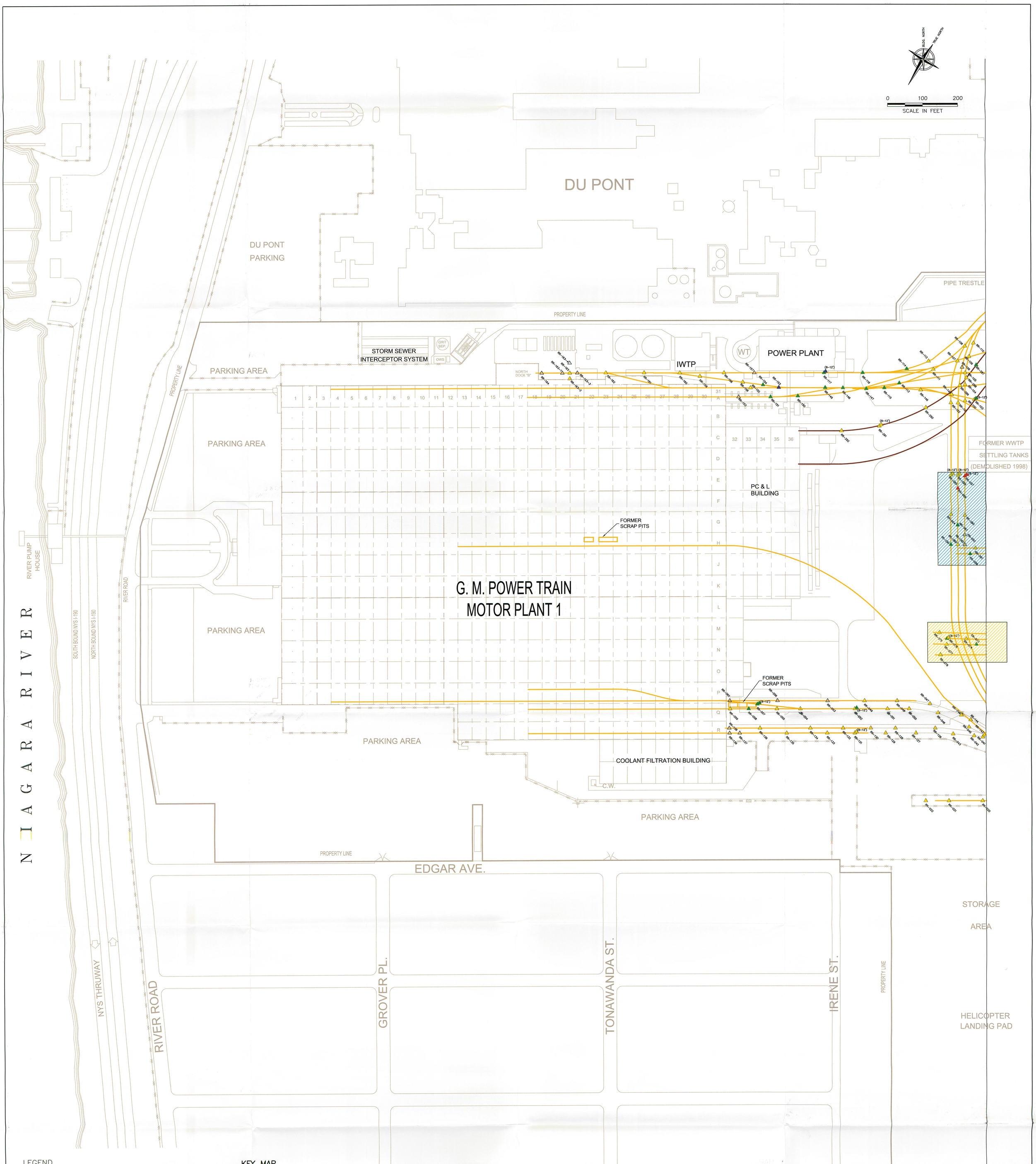
RAILROAD DRAINAGE LINE INVESTIGATION

FIELD SCREENING RESULTS (0-4 FT)

CONESTOGA-ROVERS & ASSOCIATES

Drawn by:	Scale:	Date:	File No.:	Rev.No.:
JF	AS SHOWN	NOVEMBER 2000	GN-003	1
Designed by: JLL				
Checked by: JLL	Field book:	Project No.: 17056-12	Drawing No.: 3A	

17056-12(011)NOV 06/2000



LEGEND

- ACTIVE RAILROAD LINES
- HISTORICAL RAILROAD LINES
- POTENTIAL AREAS OF INTEREST
- AREAS OF FURTHER INVESTIGATION (THESE AREAS ARE RECOMMENDED TO BE FURTHER INVESTIGATED TO EVALUATE ANOMALOUS DETECTIONS)

PCB CONCENTRATIONS:

- AUGER REFUSAL/NOT ACCESSIBLE
- ND = < 1.0 ppm (mg/kg)
- 1.0 – 5.0 ppm (mg/kg)
- 5.0 – 10 ppm (mg/kg)
- 10 – 50 ppm (mg/kg)
- > 50 ppm (mg/kg)

KEY MAP

NOTES:

1. BASEMAP REFERENCE "GMPTG TONAWANDA SITE PLAN," TONAWANDA, NY, PREPARED BY: LAUER-MANGUSO & ASSOCIATES ARCHITECTS, DWG. NO.: GM-C-01-K, DATE: 4/20/98.
2. BASE DRAWINGS PROVIDED BY GMPTG ENGINEERING DEPT., TONWANDA, NY, DATE: 3/99 AND THE IT CORPORATION, GRAND ISLAND, NY, DATE: 8/00.
3. ALL DIMENSIONS ARE APPROXIMATE.
4. FIELD SCREENING RESULTS ARE 4' TO 8' IN DEPTH UNLESS NOTED IN PARENTHESES.

№	Revision	Date	Initial

Approved

GENERAL MOTORS POWERTRAIN GROUP
TONAWANDA ENGINE PLANT

RAILROAD DRAINAGE LINE INVESTIGATION

FIELD SCREENING RESULTS (4-12 FT)

CONESTOGA-ROVERS & ASSOCIATES

Drawn by:	Scale:	Date:	File №:	Rev.№:
JF	AS SHOWN	NOVEMBER 2000	GN-004	1
Designed by: JLL				
Checked by: JLL	Field book:	Project №: 17056-12	Drawing №: 4	

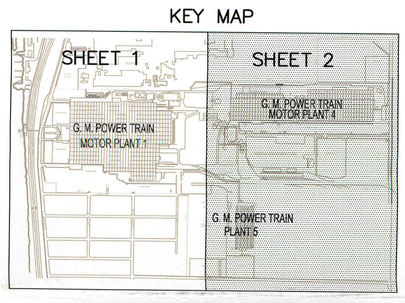
17056-12(011)NOV 06/2000

0 100 200
SCALE IN FEET

BLDG. NORTH
TRUE NORTH

PROPERTY LINE
PROPERTY LINE
15 ACRES
PARKING
PROPERTY LINE
RR SCALE
REC. AREA
FORMER SCRAP PITS
WATER TANK
G. M. POWER TRAIN
MOTOR PLANT 4
FIRE PREVENTION BLDG (EMERGENCY GENERATOR BLDG)
EXIST. CONCRETE PV'MT.
FORMER WWTP
SETTLING TANKS
(DEMOLISHED 1998)
NITROGEN BULK TANK
ALUM CHIP SILO
PARKING AREA
115KVSUB STATION
AMERICAN AXLE & MANUFACTURING
PARKING AREA
PROPERTY LINE
KENMORE AVE.
EXIST. CONCRETE PV'MT.
PROPERTY LINE
G. M. POWER TRAIN
PLANT 5
ALUM CHIP SILO
PARKING
PROPERTY LINE

KEY MAP



LEGEND

- ACTIVE RAILROAD LINES
- HISTORICAL RAILROAD LINES
- POTENTIAL AREAS OF INTEREST
- AREAS OF FURTHER INVESTIGATION (THESE AREAS ARE RECOMMENDED TO BE FURTHER INVESTIGATED TO EVALUATE ANOMALOUS DETECTIONS)

PCB CONCENTRATIONS:

- AUGER REFUSAL/NOT ACCESSIBLE
- ND = < 1.0 ppm (mg/kg)
- 1.0 – 5.0 ppm (mg/kg)
- 5.0 – 10 ppm (mg/kg)
- 10 – 50 ppm (mg/kg)
- > 50 ppm (mg/kg)

NOTES:

1. BASEMAP REFERENCE "GMPTG TONAWANDA SITE PLAN," TONAWANDA, NY, PREPARED BY: LAUER-MANGUSO & ASSOCIATES ARCHITECTS, DWG. NO.: GM-C-01-K, DATE: 4/20/98.
2. BASE DRAWINGS PROVIDED BY GMPTG ENGINEERING DEPT., TONWANDA, NY, DATE: 3/99 AND THE IT CORPORATION, GRAND ISLAND, NY, DATE: 8/00.
3. ALL DIMENSIONS ARE APPROXIMATE.
4. FIELD SCREENING RESULTS ARE 4' TO 8' IN DEPTH UNLESS NOTED IN PARENTHESES.

№	Revision	Date	Initial

Approved

GENERAL MOTORS POWERTRAIN GROUP
TONAWANDA ENGINE PLANT

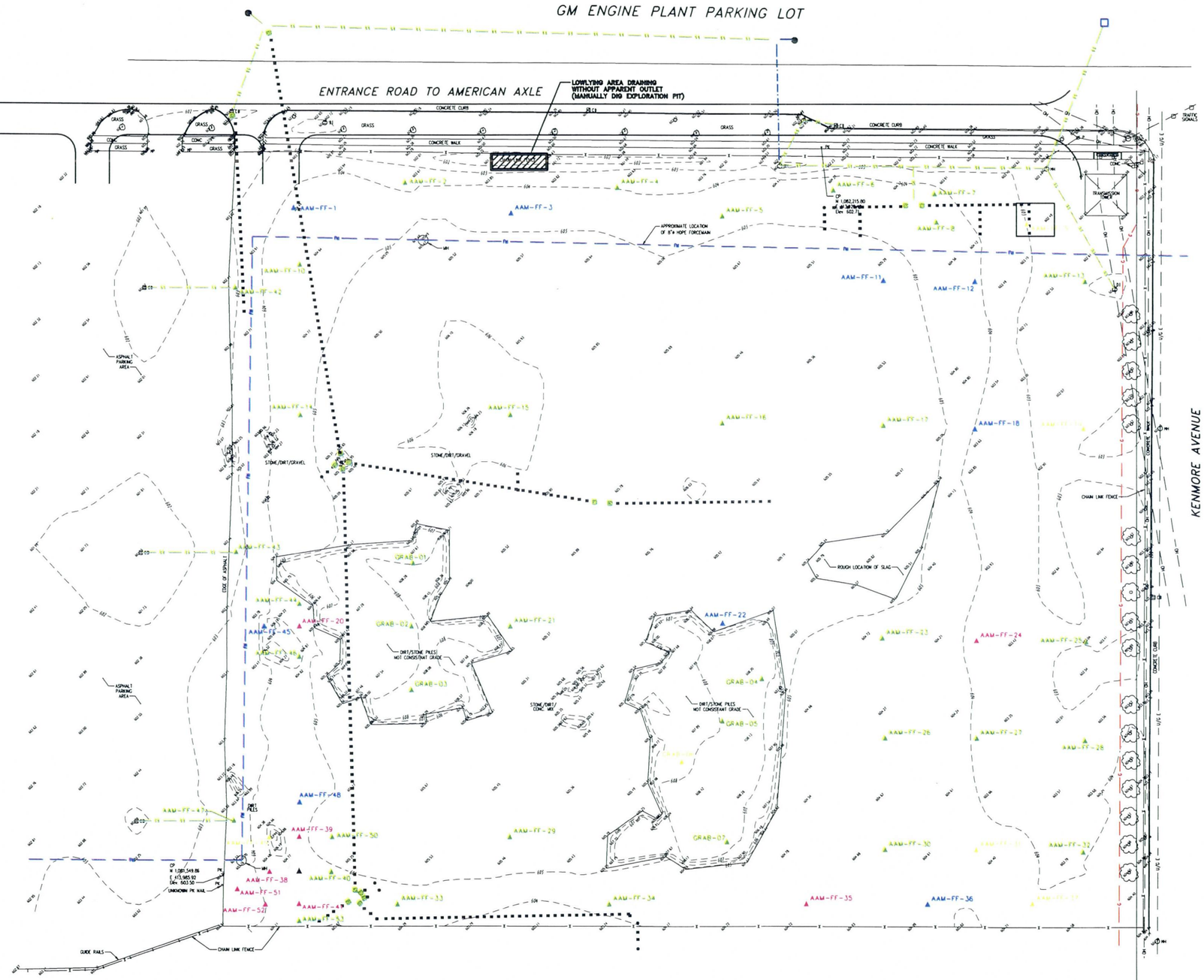
RAILROAD DRAINAGE LINE INVESTIGATION

FIELD SCREENING RESULTS (4-12 FT)

CRA CONESTOGA-ROVERS & ASSOCIATES

Drawn by:	Scale:	Date:	File №:	Rev.№:
JF	AS SHOWN	NOVEMBER 2000	GN-004	1
Designed by: JLL				
Checked by: JLL	Field book:	Project №: 17056-12	Drawing №: 4A	

17056-12(011)NOV 06/2000



LEGEND

- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1–10 ppm
- PCB CONCENTRATION 10–25 ppm
- PCB CONCENTRATION 25–50 ppm
- PCB CONCENTRATION >50 ppm
- EMCON PCB CONCENTRATION <1 ppm
- EMCON PCB CONCENTRATION 1–5 ppm
- EMCON PCB CONCENTRATION 5–10 ppm
- EMCON PCB CONCENTRATION 10–50 ppm
- EMCON PCB CONCENTRATION >50 ppm
- EXISTING BULKHEAD
- EXISTING STORM SEWER LINE NOT IN USE
- EXISTING FORCE MAIN
- EXISTING GAS LINE
- EXISTING STORM SEWER LINE
- EXISTING GUIDE RAIL
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES OR CABLES
- EXISTING CONTOUR LINE
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- EXISTING DRAIN INLET
- EXISTING SIGN
- EXISTING METAL POST
- EXISTING LIGHT POLE
- EXISTING SURVEY CONTROL POINT

ABBREVIATIONS

- CONC CONCRETE
- ppm PARTS PER MILLION
- PCB POLYCHLORINATED BIPHENYLS

0 40 80 160

APPROXIMATE SCALE IN FEET

GENERAL MOTORS CORPORATION
AMERICAN AXLE & MANUFACTURING, INC.
TONAWANDA FORGE PLANT

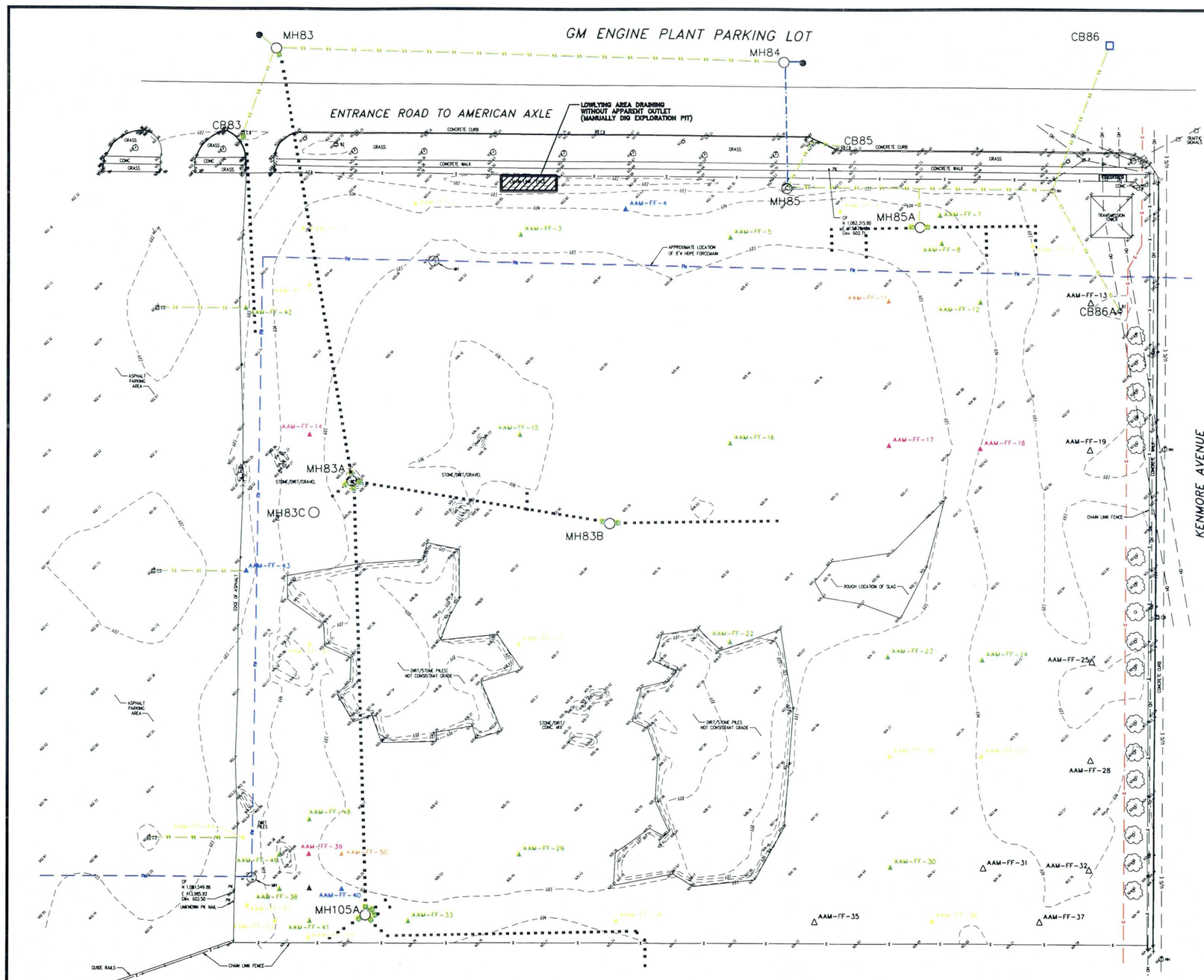
INTERIM CORRECTIVE MEASURES REPORT – ADDENDUM III

FRONT FORTY SOIL SAMPLING RESULTS (0-2 FEET)

BBL BLASLAND, BOUCK & LEE, INC. *engineers & scientists*

FIGURE 4

X: NONE
P: DL, DL2B
4/30/01 BCO-54 MJS
10/01/01 SYR-54-KMD
86977001\85977B04.DWG



LEGEND

- CLAY ENCOUNTERED THEREFORE DEPTH INTERVAL NOT FIELD SCREENED
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1–10 ppm
- PCB CONCENTRATION 10–25 ppm
- PCB CONCENTRATION 25–50 ppm
- PCB CONCENTRATION >50 ppm
- EXISTING BULKHEAD
- EXISTING STORM SEWER LINE NOT IN USE
- EXISTING FORCE MAIN
- EXISTING GAS LINE
- EXISTING STORM SEWER LINE
- EXISTING GUIDE RAIL
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES OR CABLES
- EXISTING CONTOUR LINE
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- EXISTING DRAIN INLET
- EXISTING SIGN
- EXISTING METAL POST
- EXISTING LIGHT POLE
- EXISTING SURVEY CONTROL POINT

ABBREVIATIONS

- CONC CONCRETE
- ppm PARTS PER MILLION
- PCB POLYCHLORINATED BIPHENYLS

0 40 80 160

APPROXIMATE SCALE IN FEET

GENERAL MOTORS CORPORATION
AMERICAN AXLE & MANUFACTURING, INC.
TONAWANDA FORGE PLANT

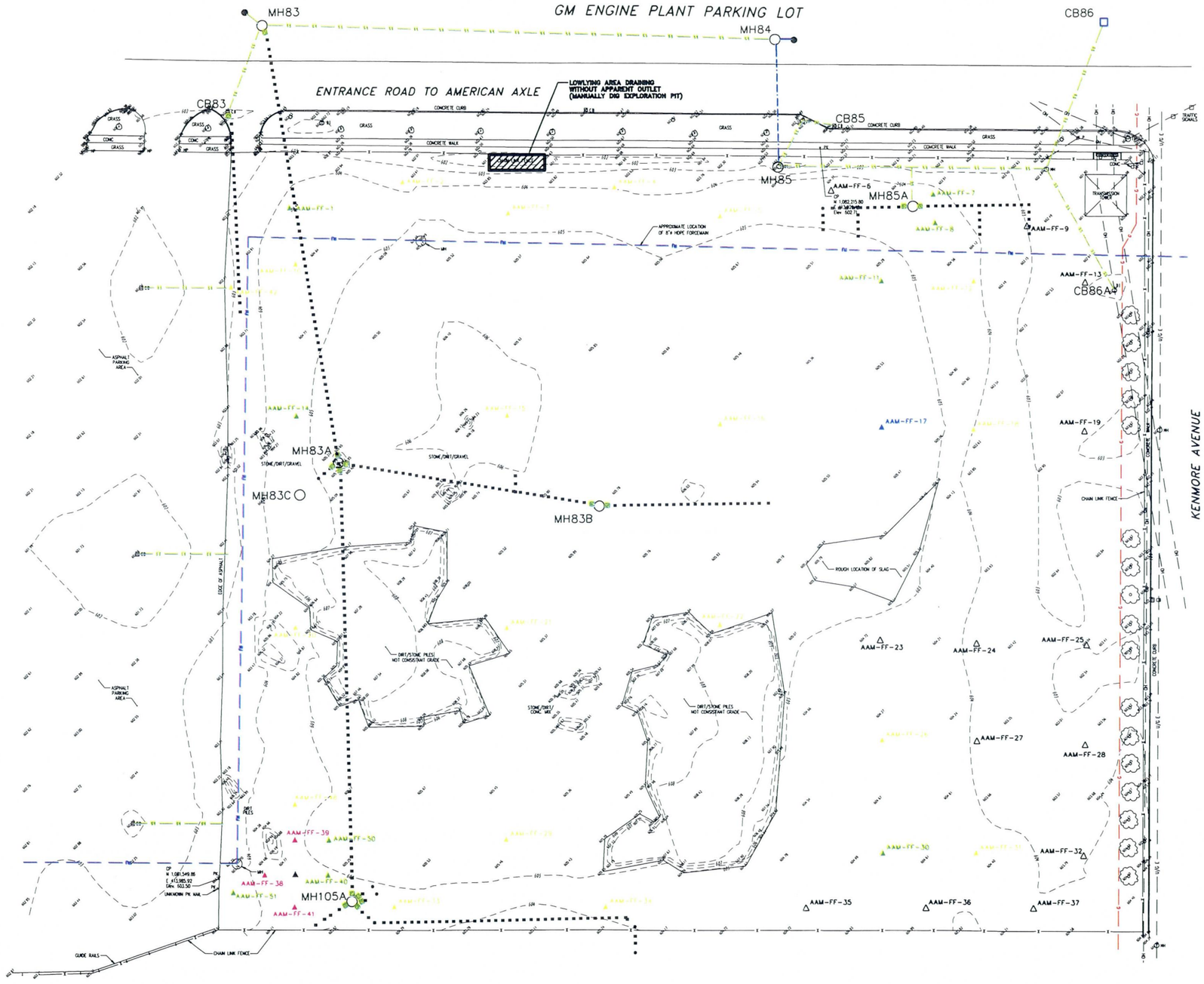
INTERIM CORRECTIVE MEASURES REPORT – ADDENDUM III

FRONT FORTY SOIL SAMPLING RESULTS (2-4 FEET)

BBL BLASLAND, BOUCK & LEE, INC. *engineers & scientists*

FIGURE 5

X: NONE
P: DL, DL2B
10/01/01 SYR-54-KMD
4/30/01 BOCO-54 MJS
86977001\86977B05.DWG



LEGEND

- △ CLAY ENCOUNTERED THEREFORE DEPTH INTERVAL NOT FIELD SCREENED
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1–10 ppm
- PCB CONCENTRATION 10–25 ppm
- PCB CONCENTRATION 25–50 ppm
- PCB CONCENTRATION >50 ppm
- EXISTING BULKHEAD
- EXISTING STORM SEWER LINE NOT IN USE
- EXISTING FORCE MAIN
- EXISTING GAS LINE
- EXISTING STORM SEWER LINE
- EXISTING GUIDE RAIL
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES OR CABLES
- EXISTING CONTOUR LINE
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- EXISTING DRAIN INLET
- EXISTING SIGN
- EXISTING METAL POST
- EXISTING LIGHT POLE
- EXISTING SURVEY CONTROL POINT

ABBREVIATIONS

- conc CONCRETE
- ppm PARTS PER MILLION
- PCB POLYCHLORINATED BIPHENYLS

0 40 80 160

APPROXIMATE SCALE IN FEET

X: NONE
P: DL, DL2B
5/1/01 BCO-54 MJS
10/01/01 SYR-54-KMD
86977001\86977B06.DWG

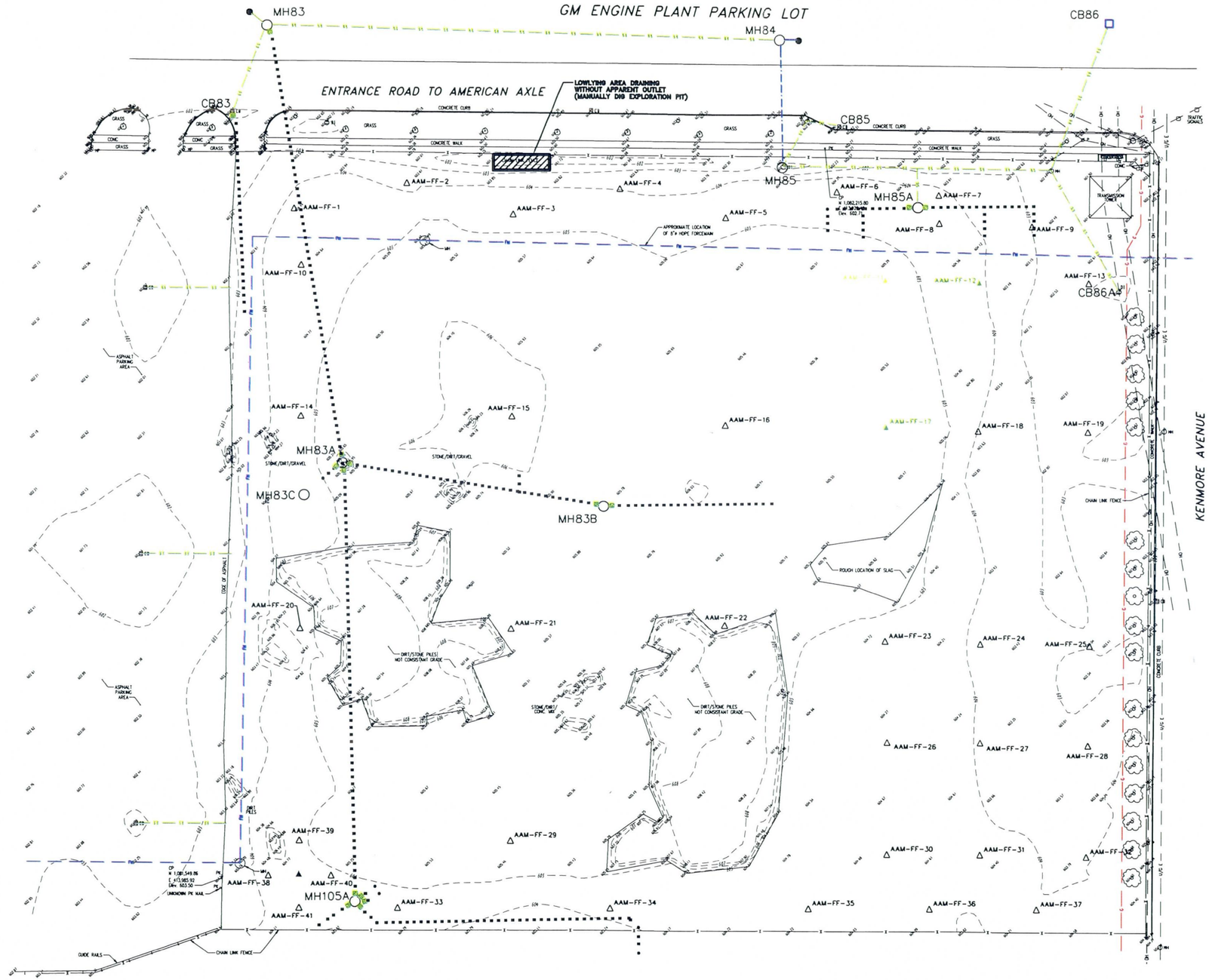
GENERAL MOTORS CORPORATION
AMERICAN AXLE & MANUFACTURING, INC.
TONAWANDA FORGE PLANT

INTERIM CORRECTIVE MEASURES REPORT – ADDENDUM III

FRONT FORTY
SOIL SAMPLING RESULTS
(4-6 FEET)

BBL BLASLAND, BOUCK & LEE, INC. *engineers & scientists*

FIGURE 6



LEGEND

- CLAY ENCOUNTERED THEREFORE DEPTH INTERVAL NOT FIELD SCREENED
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1–10 ppm
- PCB CONCENTRATION 10–25 ppm
- PCB CONCENTRATION 25–50 ppm
- PCB CONCENTRATION >50 ppm
- EXISTING BULKHEAD
- EXISTING STORM SEWER LINE NOT IN USE
- EXISTING FORCE MAIN
- EXISTING GAS LINE
- EXISTING STORM SEWER LINE
- EXISTING GUIDE RAIL
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES OR CABLES
- EXISTING CONTOUR LINE
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- EXISTING DRAIN INLET
- EXISTING SIGN
- EXISTING METAL POST
- EXISTING LIGHT POLE
- EXISTING SURVEY CONTROL POINT

ABBREVIATIONS

conc CONCRETE
ppm PARTS PER MILLION
PCB POLYCHLORINATED BIPHENYLS

0 40 80 160

APPROXIMATE SCALE IN FEET

GENERAL MOTORS CORPORATION
AMERICAN AXLE & MANUFACTURING, INC.
TONAWANDA FORGE PLANT

INTERIM CORRECTIVE MEASURES REPORT – ADDENDUM III

FRONT FORTY SOIL SAMPLING RESULTS (6-8 FEET)

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 7

X: NONE
P: DL, DL2B
10/01/01 SYR-54-KMD
5/1/01 BOCO-54 MJS
86977001\86977B07.DWG

APPENDIX C

FIELD NOTES

TITLE

PROJECT

Continued from page

11/1/20 31°F CLOUDY

07:31 - KEM + TW ON-SITE

08:10 - MG, PCW PF ON-SITE

~~SCHOOL~~ ~~CAMP~~ SETTING UP CAMP

09:45 - NATHANAGLOK ON SITE w/ GEOTECH TEAM MUSCH

10:05 - TAILGATE SAFETY MTG

10:15 - ~~BEGIN~~ ~~DRILLING~~ STAT BORING & CAMP MOVE TO AOC1

15:33 - ~~FINISH FOR DAY~~ PAUSED BORING .13 ~~BORING~~ BORING, DONE ONLY 2 LEFT IN AOC1

15:55 - NATHANAGLOK APPROVED

16:15 - ACOM OFF SITE

TITLE

PROJECT

Continued from page

SB-64-20

S#	DEPTH	REC	PID	LABS	DESC
1	0-4'	3.0'	0/0/0	0-1 2-3	0-1: TOPSOIL - BROWN 1-4: FILL - GRAY MC SAND + GRAVEL, WET, NO ODOR
2	~~4-8'~~ 4-6' 6	1.5	0/0	4-5	4-6: NO BROWN SILT, TRACE CLAY, GRAY DESICCATION CRACKS COMP @ 6'

SB-66-20

Sample #	DEPTH	REC	PID	LABS	DESC
1	0-4'	3.5	0/0/0	0-1 ~~2-3~~ 1-2	0-0.5: FILL 0.5-4: NO ~~BROWN~~ BROWN SILT, TRACE SAND CLAY, MOIST NO ODOR
2	~~4-8'~~ 4-6'	~~2.0~~ 2.0	0/0	—	4-6: N/A COMP @ 6'

SB-67-20

Sample #	DEPTH	REC	PID	LABS	DESC
1	0-4'	0.7'	0	0-1 ~~1-2~~ 1-2 ~~4-5~~ 4-5	0-4: FILL TOPSOIL, WET NO ODOR 4-5: FILL GRAY CLAY ~~GRAY~~ GRAY + MC SAND WET NO ODOR
2	~~4-6~~ 4-6	~~2.0~~ 2.0			5-6: NO BRN SILT, TR SAND CLAY, WET NO ODOR COMP @ 6'

SB-65-20

Sample #	DEPTH	REC	PID	LABS	DESC
1	0-4'	2.1	0/0	0-1 2-3	0-1': TOPSOIL 1-4: FILL - GRAY CLAY GRAVEL MC SAND, WET, NO ODOR
2	4-6'	2.0	0/0	4-5	4-5. N/A 5-6': NO BRN SILT, SAND-TR CLAY WET, NO ODOR

TITLE

PROJECT

Continued from page

SB-77-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4'	3.5	0/0/0	0-1 1-2 2-3	0-1': FILL - TOPSOIL + GRAY CMF GRAVEL, 1.1-4': RD BRN SILT, SOME - TR CLAY MOIST, NO ODOR, SLIGHT SEDIMENT 2-3' EOB @ 4'

SB-76-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.5	0/0/0	0-1 2-3	0-2': TOPSOIL 2-4': FILL - RD BRN SILT + CMF GRAVEL, OR SEDIMENT @ 3' MOIST, NO ODOR
2	4-6	2.0	0/0		4-6 LT RD BRN SILT, DRY, NO ODOR LT MOTTLING PRESENT EOB @ 6

SB-74-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	2.5	0/0/0	0-1 2-3	0-1': TOPSOIL 1-4': FILL - DK BROWN MF SAND, SILT, SOME F GRAV, MOIST, NO ODOR
2	4-6	2.0	0/0		4-6': RD BRN w/TAN MOTTLING, CLAYEY SILT, TRACE ORGANICS, MOIST, NO ODOR EOB @ 6'

SB-73-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	2.3	0/0.0	0-1 2-3 3-4	0-3': TOPSOIL 3-4': FILL - GRY CMF GRAVEL + CM SAND DRY NO ODOR
2	4-6	2.0	0/0		4-6': RD BRN w/TAN MOTTLING, CLAYEY SILT, MOIST, NO ODOR EOB @ 6

TITLE

PROJECT

Continued from page

~~SB-73-20~~ SB-72-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.0'	0/0/0	0-1 2-3	0-0.5: TOPSOIL 0.5-4: FILL - DK GRAY, STAINED, CMF GRAVEL + SILT + MC SAND, MOIST, NO ODOR
2	4-6	2.0	0/0	4.5 (SAND)	4-5': FILL - BLACK MF SAND, MOIST, NO ODOR 5-6: NO RECOVERY, SILT, EOB @ 6'

SB-71-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.5	0/0/0	0-1 (TOPSOIL) 1-2 2-3	0-1: TOPSOIL 1-3: FILL - RD BRN SILT + CMF GRAVEL DRY, NO ODOR
2	4				3-4: NO RECOVERY SILT,
	4-6	0	NA		4-6: NO REC EOB @ 6'

SB-69-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.4	0/0/0	0-1 1-2 2-3 3-4	0-1: TOPSOIL 1-3: FILL - RED/GRAY SILT + CMF GRAVEL, MOIST NO ODOR 3-4: NO RECOVERY w/TAN MOTTLING SILT, MOIST, NO ODOR

SB-70-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.7	0/0/0/0	0-1 3-4	0-3: TOPSOIL 3-4: FILL - GRY CMF GRAVEL + CM SAND
2	4-6	2.0	0/0	5-6	4-5.5: A/A 5.5-6: FILL - BLACK MF SAND
3	6-10	4.0	0/0/0/0		6-7: A/A w/SOME SILT 7-10: RD BRN w/GRAY MOTTLING SILT, SOME - TR CLAY, MOIST, NO ODOR EOB 10'

TITLE SB-68-20 PROJECT

Continued from page SB-68-20

Sample #	Depth	Rec	P.D	LAB	DESC
1	0-4'	3.8	0/0/0/0	0-1 2-3 3-4	0-2: Topsoil - (Crushed Aggregate) Silt + Clay 2-4: Fill - Gray/Black Coarse Gravel + Sand Some Silt, Moist, No Odor
2	4-8	4.0	0/0/0/0	4-5	4-5: Gray Clay, Some Silt + Silt 5-8: No Run Gray Clay Some Silt + Silt Silty Clay

EOB @ 8'

SB-67-20

Sample #	Depth	Rec	P.D	LAB	DESC
1	0-4	2.7	0/0/0		0-3: Topsoil 3-4: Fill Dk Brn Fine Sand 4-6.2: A/A Brn Brn 6.2-8: No Run Silty, Some Fine Clay Gray Discoloration Odors
2	4-8	3.5			

EOB @ 8'

SB-61-20

Sample no	Depth	Rec	P.D	LAB	DESC
1	0-4	3.0	0/0/0	0-1 2-3	0-1: Topsoil 1-4: Brn Coarse Sand, Some Clay Gravel Moist, No Odor
2	4-8	3.5	0/0/0	5-6 6-7	4-6: A/A 6-8: No Brn Silty, Some Fine Clay

EOB @ 8'

SB-69-20

Sample #	Depth	Rec	P.D	LAB	DESC
1	0-4	4.0	0/0/0/0	0-1 3-4	0-3: Topsoil 3-4: Fill - Brn Coarse Sand + Mix Gravel Moist No Odor
2	4-8	4.0	0/0/0/0	5-6	4-6: A/A w/ Reworked Silt/Clay 6-8: No Run Silt, Some-Trace Clay + Mix Gravel, Moist, No Odor

EOB @ 8'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page SB-59-20

Sample #	Depth	Rec	P.D	LAB	DESC
1	0-4	4.0	0/0/0/0	0-1 3-4	0-0.5' Topsoil 0.5-4: Fill - Reworked Silt, Clay + Gravel
2	4-8	4.0	0/0/0/0	4-5	4-6: Fill - Black Fine Sand 6-8: No Run Clayey Silt, Moist No Odor

EOB @ 8'

SB-58-20

Sample #	Depth	Rec	P.D	LAB	DESC
1	0-4	3.0	0/0/0	0-1 2.3 (Dup)	0-1. Topsoil 1-6: Fill - Silty Sand Gravel Mix 6-8: No Run Silty Some Clay, Moist
2	4-8'	4.0	0/0/0/0	5-6	No Odor

EOB @ 8'

SB-62-20

Sample #	Depth	Rec	P.D	LAB	DESC
1	0-4'	3.5	0/0/0/0	0-1 2.3 (Dup)	0-2: Topsoil (Crushed Aggregate) Clay) 2-4: Fill - Black-Gray Coarse Sand, Some Silt, Moist, No Odor
2	4-8	4.0	0/0/0/0	4-5	4-5: A/A 5-8: No Run w/ Gray Discoloration Coarse Silty Some-Clay, Moist No Odor

EOB @ 8'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE 11/3/20 42°F CLOUDY PROJECT

Continued from page

07:54 - ACCOM + NOTH ON SITE, CALIBRATED IRIS
08:15 - TAILGATE MEETING
08:25 - RETURNED ADC 1 ~~from~~ EXPLORED & CAMP MONITOR
09:42 - FINISH ADC 1, BEGIN TO SET UP AD
10:38 - BEGAN ~~Coring~~ SB-54-20 @ ADC 2
10:55 - ~~Began~~ ADC 2 @ PART ~~Coring~~ ~~Drilling~~ ~~Drilled~~
12:31 - PAUSED ~~for~~ BUILT @ SB-48-20, ~~Prep~~ TO ~~Geotech Station~~ ~~Core~~ TO GEOTECH BORING
~~Start Coring Location~~ START CORING LOCATION
14:41 - ENDED CORE MONITOR - NOTHING BEGINNING DECON PAD ~~Continue~~ CONSTRUCTION
16:10 - ACCOM + NOTH OFF SITE

SIGNATURE DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-57-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.0'	0.0	0-4	0-0.1': ASPHALT 0.1-4: FILL - REWORKED SILT + CLAY
2	4-8	4.0'	0/0/0/0	4-5	4-5: AA 5-8: NO RECOVERY W/ GRAY DESICCATED CONCRETE SILT, SOME CLAY, WET, NO ODOR

SB-75-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.5	0/0/0/0	0-1 3-4	0-1: TOPSOIL 1-4: ~~FILL~~ FILL - REWORKED SILT.
2	4-8	4.6	0/0/0/0		~~4.5~~ AA 4-5 5-8: NO RECOVERY SILT, SOME CLAY + GRAY MATERIAL FOR @ 8'

SB-54-20

SAMPLE	DEPTH	~~REC~~ REC	PID	LAB	DESC
1	0-0.5			0.5-1	0-0.5: CONCRETE
1	0.5-4.5	3.5'	0/0/0	1.5-2 3.5-4.5	0.5-1.5: FILL - GRAY/BROWN CMF SAND W/ MF GRAVEL, TRACE NO ODOR 1.5-4.5: ~~NO~~ NO RECOVERY SILT, SOME-TRACE CLAY MOIST NO ODOR FOR @ 4.5'

SB-53-20

SAMPLE	DEPTH	REC'	PID	LAB	DESC
1	0-4	1.2	0/0	0.5-1 3-4	0-4: FILL - GRAY BRN CMF SAND + MF GRAVEL WET, NO ODOR
2	4-8	3.5	0/0/0	5-6	4-6: AA 6-8: NO RECOVERY SILT, ~~Some~~ SOME-TR CLAY MOIST, NO ODOR FOR @ 8'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB - SB-20

Sample	DEPTH	REC	PID	LAB	DESC
1	0-4	2.1	0/0	0-1	0-4: FILL, REWORKED SILT + CLAY + GRAVEL
2	4-8	3.9	0/0/0	3-4	4-5: ALLUV
				4-5	5-8: SOFT SILT, SOME TR CLAY

Grey Discoloration Changing, Possible Petroleum Odor

SB-48-20

Sample	DEPTH	REC	PID	LAB	DESC
1	0-4 PS	1.9	0.0	0-0.5	0-4: FILL - REWORKED SILT, CLAY + GRAVEL
2	~~4-8~~			1-2	WOOD, NO ODOR
				2-3	3.5 REFUSAL @ 3.5'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE 11/4/20 45°F SUNNY PROJECT

Continued from page

07:00 ACCEPT + NOTE ON-SITE; BEGIN CALIBRATING EQUIP
07:16 TAILGATE SAFETY MEETING
07:28 BEGIN CAMP MEASUREMENTS + BORING @ AOC 12
08:50 FINISH BORING @ AOC 12, BEGIN BORING @ AOC 11
WATER TABLE @ AOC 11 ~~2.5'~~ 2.5' BGS
10:09 FINISH BORING @ AOC 11, BEGIN BORING @ AOC 4
~~11:50 " " @ AOC 4 " " @ AOC 14~~
11:40 CAMP MONITOR ~~OFF~~ (DC) OFF-SITE
11:50 FINISH BORING @ AOC 4 ~~AOC 4 @ AOC 14~~
11:56 CAMP MONITOR (DC) ON SITE
12:10 BEGIN BORING @ AOC 14
13:21 FINISHED BORING AOC 14,
14:09 BEGIN BORING @ AOCs 7+8
15:21 FINISH BORING @ AOC 8+ FINISH BORING AOC 7
BEGIN CLEANUP
15:38 NOTEMAGE + TW OFF SITE, DC OFF SITE
16:50 TEAM + PP OFF SITE

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SA-50-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4'	1.25	0/0	0-1	0-4: FILL - GRAVEL SILT, MOIST @ 3.5'
2	4-8'	4.0	0/0/0/0		~~0~~ 4: A/A
					4-4.5 AA
					4.5-8: NO RXN SILT, SOME-TR CLAY, MOIST
					COR @ 8'

SB-3?-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	~~0~~'				0-0.7: CONCRETE
	0.7-4.7'	3.9	0/0/0/0	2.5-3.5	0.7-4.5: AP ~~SILT~~ SILT, GRAY DESICCATION
					CRACKS, MOIST, NO ODOR
				4.5-5.5	4.5-4.7: RXN NEG STRONG, MOIST, NO ODOR
2	4.7-8.7'	4.0	0/0/0		4.7-5.2: A/A BUT W/ NEGLIGIBLE
					5.2-8.7: SAME AS 0.7-4.5
					COR @ 8.7'

SB-3?-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
~~SAMP~~	~~DEPTH~~				
	DEPTH				0-0.9: CONCRETE
1	0.9-4.9	~~3.9~~ 3.5	0/0/0	1-2	0.9-4.9: NO RXN SILT, SOME-TR CLAY +
				3-4	F GRAVEL, MOIST, NO ODOR
2	4.9-8.9	4.0	0/0/0/0		4.9-8.9 A/A
					COR @ 8.9'

SA-78-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4'	2.5	0/0/0	1.5-2.5	0-1: FILL
				+ VOCs	1-4: NO RXN SILT, SOME-TR CLAY + F
					GRAVEL, MOIST, NO ODOR
2	4-8	4.0	0/0/0/0	4-5	4-8' A/A
					COR @ 8'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

SB-19-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4'	3.0'	0/0/0	0-1 3.5-4.5	0-1: FILL - BROWN, GRAY CMP SAND & GRAVEL, ODOR MOIST 1-4: NO RECOVERY SILT, SOME-TR CLAY & FGRN MOIST, NO ODOR
2	4-8	4.0'	0/0/0		4-8: A/A CONTD 8'

SB-17-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
	0				0-1: CONCRETE
1	1-5	0.5'	0		1-5: FILL - CMP SAND & MF GRAV GS WET, NO ODOR
2	5-9	3.0	0/00		5-8: A/A NO RECOV, SLIGHT ODOR
3	9-12	3.0		9-10 10-12	GS 9-9: NO RECOVERY SILT, SOME-TR CLAY & FGRN MOIST, NO ODOR 9-12: A/A GRADING TO CLAYEY SILT CONTD @ 12'

└ MOST GOT CAUGHT IN CORE

SB-12-20

SAMP	DEPTH	REC	PID	LAB	DESC
					0-0.9: CONCRETE
1	0.9-4.9	0.1			0.9-4.9: FILL - GRAY CMP GRAVEL, WET, NO ODOR LOW REC
2	4.9-8.9	3.0	0/0/0		4.9-8.9: NO RECOVERY SILT, SOME-TR CLAY & F GRAV. MOIST, NO ODOR
3	8.9-9.5	1.0	4	8.5-9.5	8.9-9.5: A/A RECOVERY @ 9.5

SB-15-20 DUP = 2' AGS

SAMP	DEPTH	REC	PID	LAB	DESC
1	0-4	0.35	0	0-2	0-4: FILL, GRAY CMP SAND & GRAVEL, WET NO ODOR WET CLAYEY SILT
2	4-8	2.1	0/0	4-5 + VOC	4-8: NO RECOVERY SILT, SOME-TRACE CLAY & F GRAV, WET, NO ODOR

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

SB-14-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4'	0.9'	0	0-2 4-5 +VOC	0-4: FILL - GRAY CMP GRAVEL & SAND WET, NO ODOR 4-8: A/A 5-8: NO RECOVERY CLAYEY SILT, WET, NO ODOR
2	4-8	1.2	0/0		

SB-02-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	2.0	0/0	0-0.5 1-1.5	0-4: FILL - CMP SAND & GRAVEL & RECOVERED SILT, MOIST, NO ODOR
2	4-8	1.0	0	5-6	4-8: A/A
3	8-11.5	2.5		8-9	8-11.5: A/A & WET RECOVERY @ 11.5'

SB-01-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0.8-4.8	0.7'	0	0.8-1.3 1.8-2.3	0-0.8: CONCRETE 0.8-4.0: FILL - CMP SAND & GRAVEL, GRAVEL WET, NO ODOR
2	4.8-8.8			3.8-4.8 5.8-6.8 + VOC	4.0-8.8: NO RECOVERY SILT, SOME CLAY, TRACE F GRAV, WET, NO ODOR, GRAY DISCOLORATION CAUSE CONTD @ 8.8'

SB-05-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.5	0/0/0	0-0.5 1-1.5 2.5-3+VOC	0-4: FILL, GRAY BRN, CMP SAND & GRAVEL SOME SILT, MOIST, NO ODOR
2	4-8	4.0	0/0/0	4-5 6-7	4-8: NO RECOVERY SILT, SOME-TRACE CLAY & F GRAV WET NO ODOR CONTD 8'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE 11/5/20 57°F SUNNY PROJECT

Continued from page

0645- ICMP ARR ON-SITE, CALIBRATING METERS
0655- TM, DC & NOTHNAGEL ON SITE
1100 TAILGATE SAFETY MEETING
0715- MOBILIZED BORING @ AUC 8
1003- FINISHED BORING @ AUC 8, BEGAN RIGGING @ LOADING DOCKS
1157- FINISHED BORING @ AUC 16
1342- FINISHED BORING @ LOADING DOCKS, ~~BEGAN~~ BEGAN BORING @ AUC 15
1820- PAUSE BORING BEGAN CLEANUP
1546 NOTH OFF-SITE
1550- ACCOM OFF-SITE

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-06-20

~~COMP~~	DEPTH	REC	PID	LAB	DESC
1	0-4	1.8	0/0	0-4	FILL- GNSY CMF GRAV & SAND w/ MEDIUM SILT, DRY, MOIST, NO ODOR
2	4	4.0	0/0/0	4-8	NO RAN SILT, SOME FN CLAY, GRY DISCOLORATION (MOTTLING) MOIST. NO ODOR GOB @ 8'
				LAB:	0-0.3, 1-1.5, 2-3, 4-5, 6-7 (MS/MSD)
				LOG#	FO-140520-1

SB-04-20

SAMP	DEPTH	REC	PID	LAB	DESC
1	0.7-4.7	2.9	0/0/0	0.8-1.3	0-0.7: CONCRETE
				1.8-2.3	0.7-4.7' FILL- BLK/GRY, CMF SAND + MF GRAV, MOIST-WET, NO ODOR, SLAG?
2	4.7-8.7	2.1	0/0	2.8-3.8	4.7-8.7: A/A NOT SLIGHT ~~ODOR~~ ODOR
3	8.7-~~12.7~~ 12.7	3.2	0/0	4.8-5.8 + VOC 6.8-7.8	8.7-12.4: FILL- GRY CMF SAND, WET, NO ODOR
					12.4-12.7: NO RAN SILT, WET, NO ODOR

SB-03-20

SAMP #	DEPTH	REC	PID	LAB	DESC
	0-4'				0-0.8': CONCRETE
1	~~0-4.5~~	2.3	0/0/0	0.8-1.3	0.8-4': FILL BLK/GRY, CMF SAND + MF GRAV
				2-3	
				3-4	DRY, NO ODOR SLAG?
2	~~4-8~~ 4.5	0.3	0/		REFUSAL @ 4.5'

SB-03A-20

SAMP #	DEPTH	REC	PID	LAB	DESC
1	0-4'	2.4'	0/0	0-0.5	0-4': FILL MEDIUM SILT, CMF SAND & MF GRAV, WET @ 3', NO ODOR
				1-1.5	
				2-3	
2	4-8'	4.0	0/0/0	4-5	4-8': NO RAN CLAYEY SILT, FN F GRAV
				6-7	SS GOB @ 8'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-07-20

SAMP	DEPTH	REC	PID	LAB	DESC
1	0-4'	0.0	0.0	0-4	0-4': FILL - RUN CMF SAND + MF GRAVEL WET, NO ODOR
					REFUSAL @ 4' (3X TM/S)

SB-08-20

SAMP #	DEPTH	REC	PID	LAB	DESC
1	0-3.5'	1.5	0/0	0-1	0-3.5': FILL - BRN/GRY CMF SAND + GRAVEL, MOIST, NO ODOR
				2-3	
					REFUSAL @ 3.5': (3X TM/S)

SB-09-20

SAMP #	DEPTH	REC	PID	LAB	DESC
					0-0.6': CONCRETE
1	0-4	0.9	0	0.6-4	0.6-4': FILL - BRN CMF SAND + MF GRAVEL WET, NO ODOR
					REFUSAL @ 4'

SB-10-20

SAMP #	DEPTH	REC	PID	LAB	DESC
	1-5				0-1.0': CONCRETE
1	[illegible]	4.0	0/0/0	1-1.5	1-1.5': FILL CLAYEY SILT
				2-2.5	
				4-5	1.5-5': NO RUN [illegible], MOIST NO ODOR, GRY OSCILLATION GRADE
					EOB @ 5'

SB-11-20

SAMP #	DEPTH	REC	PID	LAB	DESC
					0-1': CONCRETE
1	1-5	1.0	0/0	1-5	1-1.5': FILL - OIL STAINED FINE GRAVEL, ODOR, WET
					1.5-5': NO RUN, SILT, SOME CLAY, GRAY OSC GRADE
					EOB @ 5

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-16-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
					[illegible] 0-0.5': CONCRETE
1	0.5-4.5	2.0	0	2-4	0.5-4.5': NO RUN [illegible], CLAYEY SILT, WET NO ODOR
		4.0			
2	4.5-8.5	[illegible]	0/0/0	6-8	4.5-8.5': NO RUN SILT, SOME CLAY, CLAY VESICULATED CHUNKS, MOIST, NO ODOR
					EOB @ 8.5

SB-17-20

SAMP #	DEPTH	REC	PID	LAB	DESC
					0-1': CONCRETE REMAINS
1	1-5	3.0	0/0/0	1-1.5	1-3': FILL - [illegible] SILT, CMF GRAVEL + SAND
				2-2.5	WET, NO ODOR
				[illegible] 4.5	3-5': NO RUN SILT, SOME CLAY, GRAY OSCILLATION
				6-8	CHUNKS, MOISTURE NO ODOR
2	5-9	3.5	0/0/0/0		5-9': A/A EOB @ 9'

SB-18-20

SAMP #	DEPTH	REC	PID	LAB	DESC
1	0-3.7	1.2	0/0	0.7-1	0-3.7': FILL - OIL STAINED CMF GRAVEL + SAND
				TVOC	WET, NO ODOR
					REFUSAL @ 3.7' (2X TM/S)

SB-19-20

SAMP #	DEPTH	REC	PID	LAB	DESC
	[illegible]				0-1': CONCRETE
1	1-5	3.5	0/0/0	1-1.5	1-1.5': FILL: GRAY CMF SAND + MF GRAVEL WET, NO ODOR
				2-2.5	
				4-5	1.5-[illegible]: NO RUN SILT, SOME-TR CLAY, GRAY OSCILLATION CHUNKS, MOIST, NO ODOR
					EOB @ 5

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page SM-21-20

Sample #	Depth	Rec	PID	Lab	Desc
1	1-5	2.5	0/0/0	1-1.5	0-1': Concrete
~~1~~	~~1-5~~			2-2.5	1-1.5': Fill - Gray MF Gravel & Fine Sand WET NO ODOR
				4-5	
					1.5-5': No Recovery; Silt some Clay Grading to Silty Clay, WET NO ODOR
					Eob @ 5'

SM-23-20

Sample #	Depth	Rec	PID	Lab	Desc
1	1-5	3.5	0/0/0	1-1.5	0-1': Concrete
				2-2.5 + Dup	1-3': Fill - Stained Gray Sand Fine Gravel, WET, ODOR PRESENT
			PID 1.0 5.9 4	4-5	~~3-5~~ 3-5': No Recovery Silt, some Clay, Gray Dessicated Chunks
					Eob @ 5'

SB-SC-20

Sample #	Depth	Rec	PID	Lab	Desc
1	1-5	2.0	0/0		0-1': Concrete
				1-5	1-5': Fill - Gray ~~MF~~ Gravel & Sand, WET, NO ODOR
2	5-6			5-6	5-6': ~~ODOR~~ Recovery @ 6' Dk Stain + ODOR @ Bin 5.9+6'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE 11/6/20 55°F Sunny PROJECT

Continued from page

06:45 JCM & PF on-site
06:56 DC + TL on-site, Calibrating Meters
07:00 - North on-site, Tail Gate Safety Meeting
07:18 - Resumed AOC 12 Borings
10:00 - Finished AOC 12 Borings
10:23 - Began AOC 10 Borings
13:27 - Finished AOC 10 Borings, Began AOC 9 Borings
14:01 - Finished AOC 9 "
Began Cleanup
14:05 - DC off-site
14:30 - Methacton off-site
14:35 - AECOM off-site

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-52-20

Sample #	Depth	PID	Lab	Desc
1	0-4'	0/0/0	0-0.5	0-2.5: Fill - Brn Cmp Sand + Gravel moist. No odor
			1-1.5	
			3-4	2.5-4: No Recovery Silt, Some-Tr Clay, moist No odor Gotz @ 4'

SB-46-20

Sample #	Depth	PID	Lab	Desc
1	0-4	0/0	0-0.5	0-4: Fill - Brn Cmp Sand + Gravel.
			2-3 Dup	Wet @ 4' No odor
2	4-8	0/0/0/0	4-5	4-5.5: A/A
				5.5-8: No Recovery Silt, Some-Tr Clay, moist No odor, Grey Desiccation Cracks Gotz @ 8'

SB-45-20

Sample #	Depth	PID	Lab	Desc
1	0-4	0/0	0-0.5	0-4: Fill - Brn Cmp Sand + Gravel, Wet @
			2-3	3.5', No odor
2	4-8	0/0/0/0		4-5.5: A/A
			4-5	5.5-8' No Recovery Silt, Some-Tr Clay, Gravel Lenses @ 6.9-7, moist, no odor

SB-43-20

Sample	Depth	PID	Lab	Desc
1	0-4	0/0	0-0.5	0-4: Fill - Brn Cmp Sand + Gravel, Wet @
			2-3	3.5', No odor
2	4-8		4-5	4-5.5: A/A
				5.5-8: No Recovery Silt, Some-Tr Clay, moist No odor, Grey Desiccation Cracks

47
SB-~~45~~ -20

Sample #	Depth	PID	Lab	Desc
1	0-4	0/0	0-0.5	0-4: Fill - ~~Brn~~ Brn Cmp Sand + Gravel
			2-3	Wet @ 3.5', No odor
2	4-8	0/0/0/0	4-4.8	4-4.8': A/A
				4.8-8: No Recovery Silt, Some-Tr Clay, moist No odor

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-4 4-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.2	0/0	0-0.5	0-4': FILL - BRN CMP SAND + GRAVEL, MOIST NO ODOR
2	4-8	1.0	0	4-5	4-8': AA BUT WET
3	8-12	1.0	0	8-9	8-11.9': AA
					11.9-12': NO RECOVERY

SB-31-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.9	0/0	0-0.5	0-4': FILL - BRN CMP SAND & GRAVEL, WET @ 3.5', NO ODOR
				1-1.5	
2	4-8	2.0	0/0	4-5	4-8': AA
3	8-8.5'	0.5	0		8-8.5': AA RECOVERED @ 8.5

SB-30-20

SAMPLE	DEPTH	~~REC~~ NGC	PID	LAB	DESC
1	0-4	3.4	0/0/0	0-0.5	0-4': FILL - CMP SAND, MF GRAV & SILT
				2.4 + VOC	BRICK FRAGMENTS, DRY, NO ODOR
2	4-8	4.0	0/0/0/0	4-5 MS/MSD	4-8': AA
				5-6	4.8-8': NO RECOVERY SILT, SAND-TR CLAY, GRAY DESSICATION CRACKS, MOIST, NO ODOR

SB-29-20

SAMPLE	DEPTH	~~REC~~ NGC	PID	LAB	DESC
1	0-4	2.9	0/0/0	0-0.5	0-4': FILL - CMP ~~SAND~~ SAND & GRAV & RECOVERED
				1-1.5	SILT & CLAY, DRY, NO ODOR
2	4-8	4.0	0/0/0/0	3-4	4-8': NO RECOVERY SILT, SAND-TR CLAY, GRAY DESSICATION ~~CRACK~~ CRACKS, MOIST, NO ODOR

SB-28-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.5	0/0	0-0.5	0-4': FILL - BLACK → BRN CMP SAND & ~~GRAVEL~~ GRAVEL, MOIST @ 3.5' NO ODOR
				1-1.5	
2	4-8	2.2	0/0	4-5	4-8': FILL - BRN CMP SAND
3	8-N	N.O	0/0		8-N: AA COB @ 12

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

SB-27-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.5	0/0	0-0.5	0-4': FILL - GRY BRN CMP SAND + GRAVEL
				1-1.5	MOIST. NO ODOR
2	4-8	2.5	0/0/0	3.5-4.5	4-4.5': AA
					4.5-8': NO RECOVERY SILT, SOME-TR CLAY, GRAY DESSICATION CRACK, MOIST, NO ODOR

SB-26-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	2.2	0/0/0	0-0.5	0-4': FILL - FINE SAND, CMP SAND + GRAVEL & RECOVERED SILT, BRN → DK BRN, MOIST NO ODOR
				1-1.5	
				3-4	
2	4-8	4.0	0/0/0/0		4-8': NO RECOVERY SILT, SAND-TR CLAY, GRAY DESSICATION CRACK, MOIST, NO ODOR

SB-24-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	~~0~~ 1-5	3.5'	0/0/0/0		0-1 CONCRETE
				1-2	1-1.5': FILL
				3-4	1.5-5': NO RECOVERY SILT, SAND CLAY, WET @ 2.5' GRAVEL WET @ 2.5', NO ODOR

SB-25-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	1-5	3.5'	0/0/0/0	1-2	0-1 ~~CONCRETE~~ CONCRETE
				3-4	1-1.5': FILL
					1.5-5': NO RECOVERY SILT, SOME CLAY, WET @ 2.5' NO ODOR

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE 11/3/20 4:30P SWMS PROJECT

Continued from page

06:50 – JCM ON-SITE, CALIBRATED ~~MAT~~ MEGGER

07:00 – DC ON-SITE

07:15 – SCA NOAH ON-SITE TAILGATE SAFETY MEGGER

07:25 – BEGIN ADC-13 BOREHOLE

12:50 FINISHED " " , MOBILIZED ADC-15 BOREHOLE

13:25 – FINISHED GEOPROBE BOREHOLE, SHUTTING DOWN CAMP ~~MONITOR~~ MONITORING

2 DRUMS ~~OF~~ IDW GENERATED 1X SOIL CUTTINGS + 1X ~~FILTER~~ DECON WATER

NOTHNAGLE CONFIRMED CORING SURFACE SOIL SAMPLE LOCATIONS

14:00 – NOTHNAGLE ~~CLEANED~~ UP NOTHNAGLE CLEANING UP

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page SB-36-20

SAMPLE #	DEPTH	REC	PID	LAB	DESC
					0-0.6': CONCRETE
1	1-5	0.6	0	1-1.5	0.6-5': FILL, BROWN CMP SAND + GRAVEL, WET
2	5-9	3.0	0/0/0	5-6	NO ODOR
					5-7': AA
					7-9': NO BROWN CLAYEY SILT, WET, NO ODOR
					CONE @ 9'

SB-37-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
					0-0.6': CONCRETE
1	~~#~~ 1-5	1.7	0/0	0.6-3	0.6-3': FILL - BROWN CMP SAND + GRAVEL, WET
				3-5	NO ODOR
					3-5': NO ~~BROWN~~ BROWN SILT, GRAY DISCOLORATION CHANGE
					SOME CLAY, WET, NO ODOR
					CONE 5'

SB-34-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.0	0/0	0-0.5 ~~FD-1~~	0-4': FILL - GRY BRN CMP SAND + GRAV
				3-4	WET @ 3.5', NO ODOR
2	4-8	4.0	0/0/0/0	4-5	4-6': AA
					6-8': NO BRN SILT, SOME GRN CLAY, WET, NO ODOR
					CONE 8'

SB-35-20

SAMPLE #	DEPTH	REC	PID	LAB	DESC
1	0-4	1.0	0/0	0-0.5 ~~PFAS/PFOA~~	0-4': FILL - GRY BRN CMP SAND + GRAV, WET @ 3.4'
					NO ODOR
2	4-8	1.0	0/0	~~8-9 VOC~~ 8-9	4-8': AA, BRN @ 7.9'
3	8-9	1.0	0		8-9': AA BUT NO ODOR
					REFUSAL @ 9'

SB-38-20

SAMPLE #	DEPTH	REC	PID	LAB	DESC
1	0-4	2.0	0/0	0-0.5	0-2': FILL - GRY BRN CMP SAND + GRAVEL, WET, NO ODOR
				1-1.5	2-4': NO BRN, CLAYEY SILT, SOME F GRAY WET, NO ODOR
				3-4	

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page SB 39-20 (3' W of SEAWALL LOCATION)

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	3.1	0/0/0	0-0.5	0-4: FILL - TOPSOIL & CMF SAND & GRAVEL
				1-1.5	: ROOTING & SILT
2	4-5.5			5-5.5	A/A NOT STAINING + ODOR @ 5-5.5
				+VOC	4-5.5: REFUSAL @ 5.5'

SB-40-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	1-5	0.9	0	1-5	1.3: CONCRETE
					1.3-5: FILL - GRY BRN CMF SAND & GRAVEL
				5-6	WET, NO ODOR
2	5-9	1.9	0/0		5-7: A/A
					7-9: NO BRN SILT, SOME CLAY, GRY OXIDATION
					CRACKS, WET, NO ODOR, EOB @ 9'

SB-43-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-2	1.0	0	0-0.5	0-2: FILL GRY CMF SAND &
				1.5-2	GRAVEL, DK STAINING SLIGHT ODOR @ 1.9-2'
					DRY, REFUSAL @ 2' (3 TRYS)

SB-55-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	1-5	0.9	0	0-0.5	0-1: CONCRETE
				5-6	1-5: FILL - GRY CMF SAND & GRAVEL, WET, NO ODOR
2	5-			7-8+VOC	5-8: A/A W/NAPL GLOBULES @ 7.5-8'
					8-9: NO BRN SILT, SOME CLAY & GRAY
					OXIDATION CRACKS EOB @ 9'

SB-42-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-3.5	0.9	0	0-1	0-3.5: FILL DK GRY CMF SAND & GRAVEL
					WET @ 2' REFUSAL @ 3.5'
				2.5-3	

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page SB 41-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	0-4	1.8	0/0	0-1.5	0-4: FILL - GRY-BRN CMF SAND & GRAV
				3-4	WET @ 2.5', NO ODOR

SB-22-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	1-5	3.1	0/0/0		0-1: CONCRETE
					1-3: FILL GRAY CMF SAND & GRAV, WET
					NO ODOR
				1-1.5	3-5: NO BRN SILT, SOME-TR CLAY, GRAY
				2-2.5	OXIDATION CRACKS, EOB @ 5'
				4-5	

SB-20-20

SAMPLE	DEPTH	REC	PID	LAB	DESC
1	1-5	3.2		1-1.5	0-1: CONCRETE
				1.5-2.5	1-2.5: FILL - BRN W/BLACK STAINING, CMF
				4-5	SAND & GRAVEL, WET, NO ODOR
					2.5-5: NO BRN SILT, SOME-TR CLAY, GRAY
					OXIDATION CRACKS, WET, NO ODOR
					EOB @ 5'

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

11/10/2020 Wx: 65-75°F, calm, sunny
0700 - onsite AECOM: T. Urban, D. Cofield, S. Connelly
Nothnagle: K. Busch
0715 - conduct tailgate safety mtg.

* Previous surface soil sample data *

11/4/2020:

SF-13-20 - PCB's only (0-0.5') - topsoil dark brown, moist. Gravel - fine to coarse.

SF-12-20 - PCBs only (0-0.5') - topsoil, dark brown, moist, gravelly - fine to coarse.

all dark brown

SF-33-20-0-0.5': topsoil w/ fine gravel (PCB's) moist
SF-33-20-0-1': topsoil w/ large gravel, moist
↳ SVOCs, metals & Hg
SF-21-20-0-0.5': topsoil w/ fine gravel (PCB's) moist.
SF-21-20-0-1': topsoil w/ pebble size gravel, moist.
↳ SVOCs, metals & Hg
SF-20-20-0-0.5': topsoil w/ fine gravel (PCB's) moist.
SF-20-20-0-1': topsoil w/ medium size gravel, moist.
↳ SVOCs, metals & Hg

- all samples = 0.0 ppm VOCs. -

11/5/2020:

SF-36-20-0-0.5': topsoil, organics w/ small & fine gravel
↳ PCB's: MS/MSD + FD-110520-2 collected.
SF-36-20-0-1': topsil, organics w/ small & large gravel -
↳ SVOCs, metals, + Mercury: MS/MSD + Field Dup FD-110520-3 collected.

SF-34-20-0-0.5': dark brown topsoil w/ fine gravel, moist (PCB's)
SF-34-20-0-1': dark brown topsoil w/ medium gravel, moist.
↳ SVOCs, metals + Hg

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page 11/10/2020 - continued

SF-01-20 - ~~0 - 0.5~~ T.U. 0.6 - 1.1' : wet, brown, silty Sand
black gravel (PCB's only)

SF-04-20 - ~~2.1 - 2.8'~~ 1.2 - 1.7' SRC : ~~0 - 2.1~~ SRC - Concrete. ~~2.1~~ SRC - tar/petroleum odor
black gravel recovered - 6 times to get limited volume,
Sample: 1010 for PCBs

SF-03-20 - 1.2 - ~~1.7~~ 1.7 ITD : 0 - 1.2 - Concrete, 1.2 - ~~1.7~~ 1.7 T.U. : Dark grey to black
wet clay w/ little gravel
Sample: 11/10/20 @ 0925 for PCB's

SF-02-20 - 1.1 - ~~1.6~~ 1.6' T.U. 0 - 1.1 concrete & brick: Sample 1.1 - 1.6' T.U.
black gravel & ~~brown~~ silty clay. wet gravel
sample time = 0945 for PCB's

SF-11-20 - 1.1 - 1.6 Sample time @ 1030
brown Silty Sand, some gravel - moist

SF-16-20 - 1.0 - 1.5, Sample time 1055
0.5 asphalt + 0.5 conc.
black sand/gravel & brown silty clay

SF-35-20 - 0.8 - 1.3 Sample time: 1120 for PCB's
0.8 conc. brown Silty Sand - moist
SF-35-20 - 0.8 - 1.8 Sample time: 1120 for SVOCs, metals, Hg
brown Silty Sand some clay - moist

SF-15-20 - 0.8 - 1.3 Sample time: 1145 for PCB's
- 0.8 concrete
brown silty clay w/ some small gravel

1230 - Nothnagle offsite

SF-14-20 - 0.9 - 1.4 Sample time 1255
0.9 concrete
brown silty clay w/ some gravel

Continued to page

SIGNATURE | DATE

DISCLOSED TO AND UNDERSTOOD BY | DATE | PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page 11/10/2020 - continued

SF-18-20 - 1.1 - 1.6' Sample time 1315 PCB's
1.1' thick conc.
Brown silty clay w/ some gravel - moist

SF-19-20
1.1' thick conc. Need to revisit after drilling
hard bottom - Slide hammer probe can't penetrate.

SF-17-20 - 0.6 - 1.1' Sample time ~~1340~~ T.U. for PCB's
0.6' conc.
after multiple attempts, could not retrieve anything
but wet gravel. NO soil could be captured.

SF-32-20 - 1.3 - 1.8' Sample time 1430
1.3' - 0.3' brick 1' conc.
gravelly, brown med - coarse sand brown
silty clay - moist

SF-05-20 - 1.1' - 1.6' Sample time 1450
1.1 of conc.
some gravel, silty sand w/ clay brown moist

All samples collected had 0.0 ppm VOC results.

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

11/11/2020 - Wednesday

0700 - onsite T. Urban, S. Connelly, D. Cofield
0730 - conduct Tailgate Safety meeting

SF-06-20-0.9-1.4 sample time - 0910 PCBs
0.9' concrete
while probing core hole, sheen seen streaming from hole onto surface water. (Rained heavy night before & property has large poolings of rainwater).
- gravelly w/ brown silty sand - very wet

SF-07-20-0.8-1.3 sample time - 0930 PCBs
0.8' concrete
Sheen on water at core hole while probing
gravelly w/ brown silty sand - wet

SF-08-20-0.7-1.2 Sample time - 0955 PCBs
0.7' concrete core
gravelly w/ brown silty sand - wet

SF-09-20-0.7-1.2 Sample time - 1040 PCBs
0.7' concrete core
gravel w/ brown silty Sand - wet

SF-10-20-1.1-1.6 Sample time - 1100 PCBs
1.1' concrete core
gravel w/ brown silty sand - wet

Return to SF-17-20, use hammer drill to loosen gravel a bit, then add extension to JMC sampler to drive probe ~4'-5'. After multiple attempts, nothing was able to be retrieved except large gravel.

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

11/11/2020 - continued

return to SF-19-20-1.1-1.6 sample time
use hammer drill to bust up hard bottom of cored hole. Drill bit not long enough to penetrate & JMC sampler can't punch through.

END surface soil sampling.
Map out surface chip locations
1600- Drive to lab & drop off samples

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

11/12/2020 - Thursday

0700 - D. Cofield, Sean Connelly & T- Urban : onsite
0720 - conduct tailgate Safety meeting & day's activities.

0745 - collect BC-01-20 - staining on red brick
representative area of 100' x 30'

0830 - collect CC-02-20 - concrete chip
40' x 40' area
0845 - collect CC-03-20 - concrete chip
10' x 10' area
0850 - collect CC-04-20 & FD-111220-1 - concrete chip
10' x 15' area
0920 - collect BC-05-20 - yellow orange brick
100' x 30' area
0930 - collect BC-06-20 & FD-111220-2 orange yellow brick
75' x 15' area
1000 - collect CC-07-20 concrete chip
25' x 10' area
1010 - collect CC-08-20 concrete chip
20' x 20' area
1020 - collect CC-09-20 concrete chip
25' x 50' area
1030 - collect CC-10-20 concrete chip
10' x 10' area
1120 - collect BC-11-20 orange/yellow brick
10' x 5' area
1130 - collect BC-12-20 orange/yellow brick
30' x 10' area
1140 - collect BC-13-20 orange/yellow brick
12' x 20' area
1220 - collect BC-14-20 orange/yellow brick
30' x 20' area

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

11/12/20 -continued

1230 - collect BC-15-20 orange/yellow brick
30' x 40' area

1305 - collect BC-16-20 orange/yellow brick
40' x 20' area

1320 - collect BC-17-20 orange/yellow brick
90' x 25' area

1400 - collect BC-18-20 orange/yellow brick
30' x 5' area

1440 - collect WC-19-20 & FD-111220-3 wood block
20' x 10' area

1450 - collect CC-20-20 concrete chip
12' x 40' area

1455 - collect WC-21-20 wood block
5' x 1' & 7' x 7' & 3' x 30' areas

1510 - collect CC-22-20 concrete chip
30' x 80' area

1525 - collect BC-23-20 orange/yellow brick
50' x 30' area

1535 - collect BC-24-20 orange/yellow brick
4' x 5' area

1545 - collect BC-25-20 orange/yellow brick
5' x 3' area

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

11/13/2020 - Fr.

Wx: 45°F, breezy, cloudy

Personell: T. Urban & S. Connelly - AECOM

1000 onsite & conduct tailgate safety mtg.

Inspect 2 MH's & document inspection - see forms.

- take photos of 25 chip sample areas

- try to determine LNAPL thicknesses.

1300 - clean up & depart site

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 11/18/20
Weather: 28°F, Cloudy
Personnel: T. Urban & S. Connolly

0730 - Arrive on site. Perform H/S and Daily Tailgate Meeting.
0740 - Began organizing tools and equipment to look for more manholes/catch basins and measure LNAPL thickness.

- Determined: • MH-58-1 is possibly destroyed (in rubble area)
• MH-109 was unable to open. Bolts wouldn't unscrew all the way. Possibly stripped/rusted.
• CB-14 was accessible and able to fully inspect
• CB-16 was accessible and able to fully inspect
• CB-18 was accessible and able to fully inspect
• CB-19 was unable to locate. Possibly destroyed (in rubble area)

LNAPL ~~Wells~~ SPL Manholes

• MH-119
- ~8" LNAPL present
• MH-120
- ~6" LNAPL present
• MH-121
- ~3" LNAPL present
• MH-59
- ~3-4" LNAPL present

* The LNAPL present in all manholes was a thick blue/black, tar/sludge like consistency

1030 - Left site

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 11/23/20
Weather: 37°F; slight breeze
Personnel: M. Gutmann; S. Connolly (Aecom)
Eric Zimmerman; Corey Mitchell (Frondina)

- 0900 - Arrive on site. (M. Gutmann already on site)
- Performed H/S w/ Frondina crew. Will begin to survey site.
- 1000 - M. Gutmann depart site.
- 1530 - All personnel departs site.

Date: 11/24/20
Weather: 38°F, Cloudy
Personnel: S. Connolly (Aecom)
Eric Zimmerman; Corey Mitchell (Frondina)

- 0800 - S. Connolly arrive on site.
- 0900 - Frondina crew arrives on site. Perform H/S. Will continue to survey T-Forge site.
- 1530 - All ~~pers~~ spc personnel depart site.

Date: 11/25/20
Weather: 39°F; cloudy
Personnel: S. Connolly (Aecom)
Eric Zimmerman; Corey Mitchell (Frondina)

- 0900 - Arrive on site. Perform H/S w/ Frondina crew. Will continue to survey / complete surveying site.
- 1300 - All personnel depart site.

Continued to page

SIGNATURE | DATE

DISCLOSED TO AND UNDERSTOOD BY | DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 12/7/20
Weather: 29°F Mostly Cloudy
Personnel: Sean P. Connelly; David Cofield (Access)
Kevin Busch; Jeremiah (Nothnagle)
Janelle Gaylord NYSDEC

.0745 - Arrive on site.
.0900 - Nothnagle crew arrives on site. Began prepping for days activities.
- Mini Excavator: Kubota KX040-4 11 00064
- Walk behind Saw: Core Cut CC6550 XLS 64917 (Both Admar)
.0940 - Will began sawcutting concrete @ TP-2020-08
Dimensions: 3' x 11'. Will use a PID and Quadmeter to measure soil impation levels
PID ID: 18361
Quadmeter ID: 046775
-1015 - M. Gutmann arrives on site.
-1120 - Began sawcutting TP-2020-03
Dimensions: 3'x6'

W x L x D

Test Pit ID	Dimensions	Date Completed
TP-2020-08	3'x 11' x 6.0	12/7/20
TP-2020-03	3'x6' x 3.5	12/8/20
TP-2020-02	3x6' x 3.5'	12/8/20
TP-2020-06A	2.3'x7'	12/8/20
TP-2020-06B	2.8'x8'	12/9/20 (Abandoned)
TP-2020-06D	3' x6'x4.8'	12/9/20
TP-2020-07	2.8'x12x4.6'	12/9/20
TP-2020-05	3.6' x 7'x3'	12/9/20

- 1300 - Janelle Gaylord arrives on site (NYSDEC)
- 1315 - Completed sawcutting all locations. Began excavating TP-2020-08
- 1350 - Completed removing top layer of concrete from TP-2020-08 Will lay down poly and continue excavation

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

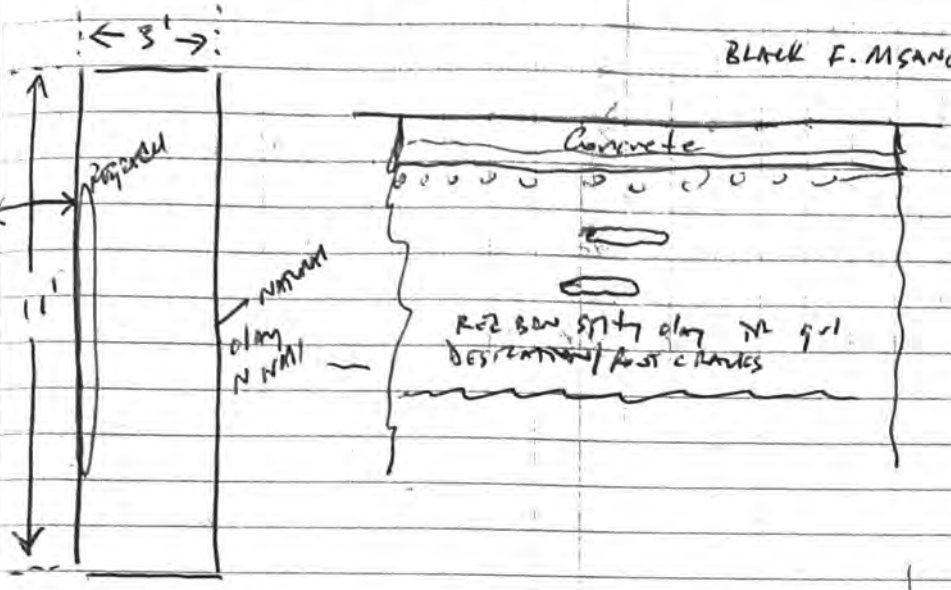
PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

TP-2020-08



BLACK F. M SAND FILL: SOUTH SIDE OF PIT WALL

0.0 - 0.8 - Concrete
0.8 - 1.35 - Gravel
1.35 - 1.5 - Black (stained sandy soil) fine to medium sand, moist.
1.5 - 6.0 - Reddish brown clay w/ grey mottling. moist w/ desiccation cracks.
@ 2.5' - Black smear of impacted soil / Staining. Took sample

Took 1st sample from 1.35 - 1.5. No PID hits
Sample ID: TP-2020-08-1.35-1.5 @ 1400
TP-2020-08-2.5 (PCB's only) @ 1430

BLACK SAND FILL SOUTH SIDE of PIT 3'8" - 3'4" NO PID V. moist F-M SAND SURROUNDED BY RE GRADED silty clay: mottled grey & s/w BRN RED-BRN V. moist. TRACE F. R TOB gvl

-1450 - Completed digging TP-2020-08. Began backfilling.
-1530 - Entrianna left site
-1550 - Completed backfilling TP-2020-08
-1600 - Jamelle (NYSDEC) left site. Nothing to Report site
-1630 - S. Connelly / D. Cofield Depart site. (Cofield on site ~ 0.5 hrs to pick up comp equipment. Total hours: 3.5 hrs
(End of Day)

Continued to page

SIGNATURE | DATE

DISCLOSED TO AND UNDERSTOOD BY | DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 12/8/20

Weather: 23° F ; Partly Cloudy

Personnel: S. Connelly ; David Cofield ; (Accom)
Jenelle Cagle ~~d~~ (NYSOPRC)
Kevin Busch ; Jeremiah (Nothnagle)

0725 - S. Connelly arrives on site. Calibrated PID / QRAE

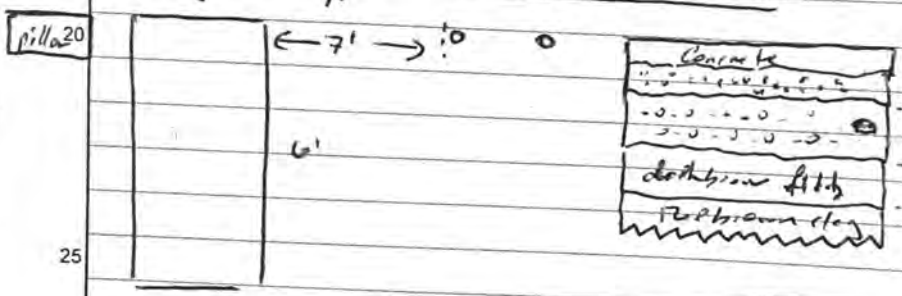
0800 - D. Cofield and Nothnagle crews arrive on site. Completed H/S meeting. D. Cofield setting up CAMP monitoring systems

0820 - Began decon of excavator bucket. Steam cleaner lines froze. Washing by hand

0857 - Completed decon. Will move to TP-2020-03 to begin excavating.

0900 - Tom Palmer from GES arrived on site

TP-2020-03



0.0 - 0.5' - Concrete

0.5 - 1.2 - Gravel sub base 2" stone w/ broken brick + debris (fill) Crushed rock

1.2 - 2.4 - Dark gray to brown silty sand fill w/ rocks and cobbles. 0.0 ppm, small chunks of hardened clay w/ black staining @ ~ 7.3' on S side wall

2.4 - 3.3 Same as above becoming dark brown

2.7' - Water flowing into

3.3' - Native red brown clay. Mottling (gray) throughout some mica. Stain not

Tech sample 3.3 - 3.5 @ 1010

pillar

- Sample TP-2020-03 - 3.3 - 3.5 @ 1010
- Will take Field Duplicate @ 1015

0930 - Removed top layer of Concrete / Chunk Rubble on site w/ Tom Palmer to ~~assess~~ inspect vegetation removal and fence install

PD-20201208-1

- Took sample of Black stained hard clay @ ~2.0' (2" thick)

1015 - Dug to water, will end Test trench ~ 3.5' Begin backfilling

- Sample: TP-2020-03 - 3.3 - 3.5' PCBs only @ 1000

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

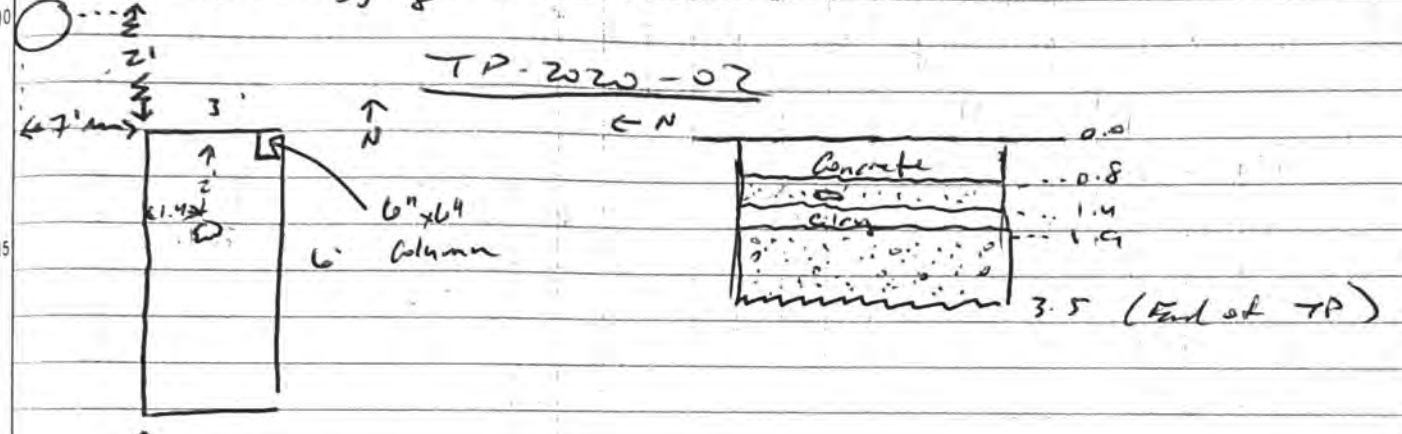
Date: 12/8/20

Weather: 25°F, Mostly Cloudy

-1035- Advisor personnel arrive to drop off hammer for excavator.

-1038- Completed backfilling / covering TP-2020-03 w/ concrete block. Will decon then move to TP-2020-02. Will use Hammer to break through concrete

-1058- Begin digging TP-2020-02 w/Hammer



0.0 - 0.8 - Concrete

0.8 - 1.4 - Dark brown, silty sand w/ small to medium size rocks (Fill) - 0.0 ppm. 1.4' from W. Wall + ~2' from N wall. Small bath of possible black staining. Hard black rock possible obsidian. 0.0 ppm. 2nd location of black rock (glossy look/obsidian) @ 0.9' down + 1.2' from N side.

1.4 - 1.9 - Reddish brown clay layer

1.9 - 3.5 - Same as 0.8-1.4. Water @ 3.3' Moist sand. Walls caving in slightly Took sample w/MS/MSD @ 3.3-3.5 TP-2020-02-3.3-3.5 MS/MSD @ 1205

MH-53-3

-1210 - Begin backfilling TP-2020-02

-1232 - Completed backfilling TP-2020-02. Will decon then head to TP-2020-06.

Continued to page

SIGNATURE | DATE

DISCLOSED TO AND UNDERSTOOD BY | DATE

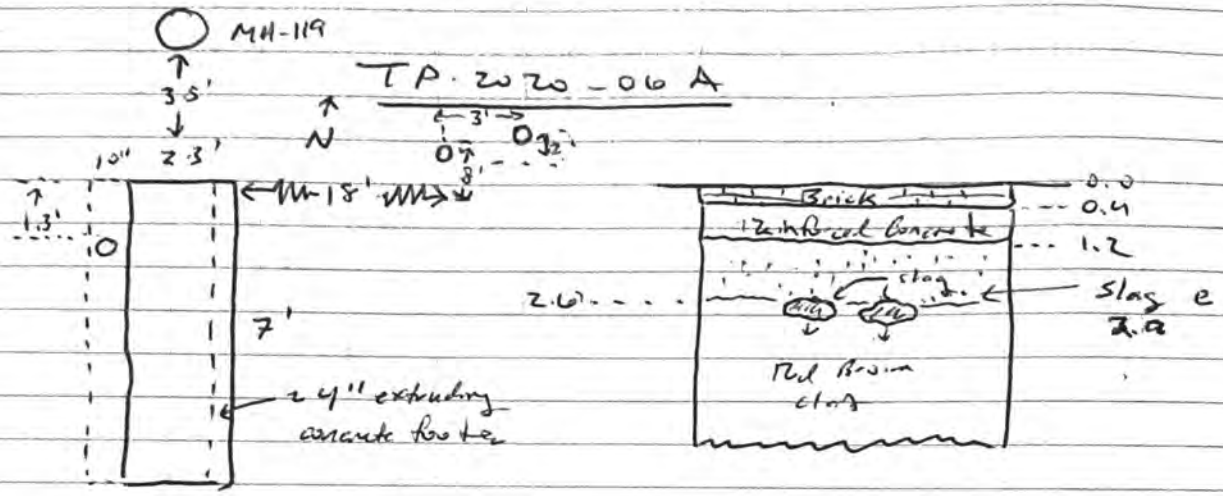
PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/8/20
Weather: 300F; Partly Cloudy

-1256 - Began prepping to excavate TP-2020-06A. 2.3'x7'
-1300 - Began excavating TP-2020-06A



0.0 - 0.4 - Brick Reddish yellow. Single layer. Strong odor between brick and mortar. Collected sediment layer for possible sample depending on what else is found. TP-2020-06A-0.4-0.5 @ 1320

0.4 - 1.2' - Concrete. Reinforced w/ wire mesh and rebar. 1.2' thick on W. side. thick on East side. Extruding footer on East side ~ 4". Will move the W side over 10" to have room for bucket. 1.3' S of N edge. 6" ϕ possible clean pipe hole.

1.2 - 2.6 - Thick Brown silty sand fill w/ small to medium rocks

2.6 - 4.0 - Reddish brown hard clay w/ gray Mottling. Chunks of slag @ 2.9'. @ 3.2' pooling water and thick concrete/slag chunks. @ 3' down on NW corner, steady flow of water

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/8/20

Weather: 34°F, Partly cloudy

-1400- While attempting to swap bucket w/ hammer on excavator, build up of hydraulic pressure in excavator hose. Attempting to bleed line / troubleshoot.

-1415- Reconnected excavator + hammer hydraulic lines. Resuming excavation

-1539- Completed Test Pit to 6' BGS. No PID hits. Will sample material between bricks + concrete

TP-2020-06A-QA-0.5 @ 1320

-1540- Began backfilling TP-2020-06A

-1550 - Completed backfilling Will decon and mobilize to TP-2020-06B

- Using a 3500 PSI steam cleaner to decon bucket.

-1600 - Janelle Gaylord + David Canfield depart site.

-1615 - Nathaniel completes decon. Begin packing up equipment.

-1630 - Nathaniel Departs site.

-1645 - S. Connelly departs site. End of Day

12/8/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

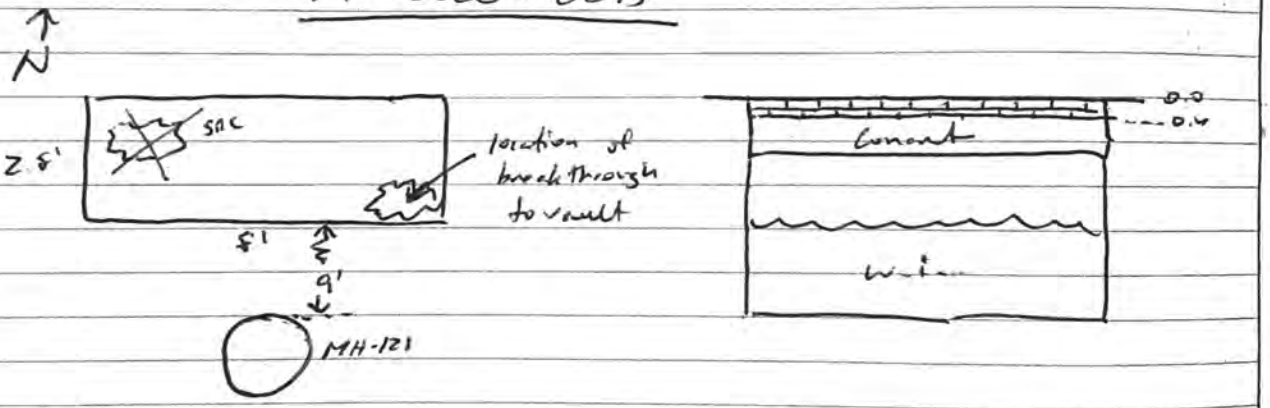
TITLE PROJECT

Continued from page

Date: 12/9/20
Weather: 36°F; Rain / slushy snow
Personnel: Sean P. Connelly; David Cofield (Aecom)
Jenelle Gaylord (NYSDEC)
Kevin Busch; Jeremiah (Nothnagle)

- 0730 - Arrive on site. Nothnagle on site. Begin to stage / organize equipment, warm up excavator
- 0740 - D. Cofield arrive on site. Will perform H/S meeting then mobilize to TP-2020-06B.
- 0745 - Jenelle Gaylord NYSDEC on site
- 0750 - Nothnagle mobilizing to TP-2020-06B
- 0815 - Begin excavating TP-2020-06B

TP-2020-06B



0.0 - 0.4 - Yellowish and brick layer
0.4 - 1.2 - Concrete
1.2 - 5.0 - Underground vault w/ water.

- 0835 - After breaking through concrete layer there was an open vault w/ water. Total depth = 5'. Will relocate to new location w/ ID as TP-2020-06C

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

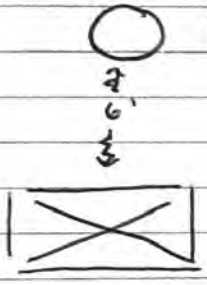
TITLE PROJECT

Continued from page

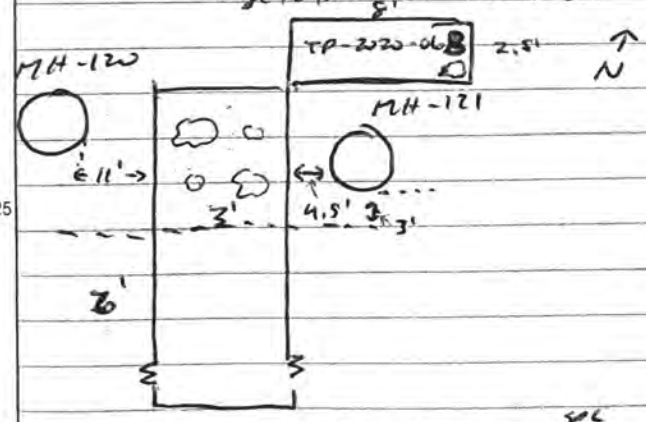
Date: 12/9/20
Weather: 34°F, Snow
Personnel: Sonny

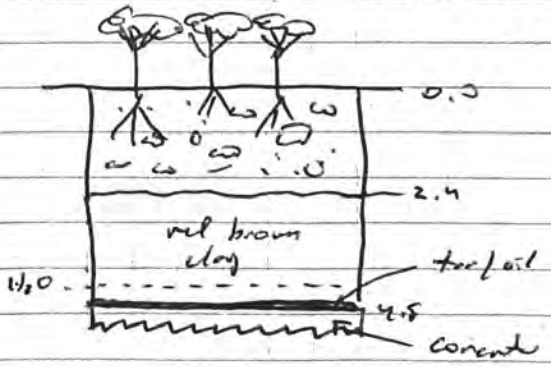
-0900 - Began excavating TP-2020-060. Will use hammer to try and puncture to a depth of 1.2' to determine if there is another vault. If not, will continue w/ full excavation of TP-2020-060

TP-2020-060



-0910 - Broke through into another vault. Will excavate where vegetation is between MH-120 and MH-120. TP-2020-060





0.0 - 2.4 - Moist, black ~~soil~~ SOIL sandy silt w/ small to medium rocks, vegetation/tree roots w/ concrete / brick debris (fill)

2.4 - 4.8 - Red brownish clay w/ black organic staining no odor. Around 4.7 - 4.8, ~~black~~ tar/oil staining w/ strong odor 0.5 ppm on PID. Will take full TCLP sample @ 0945 TP-2020-060-4.7-4.8. * 4.5' water began pooling

4.8 - Concrete sub base

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

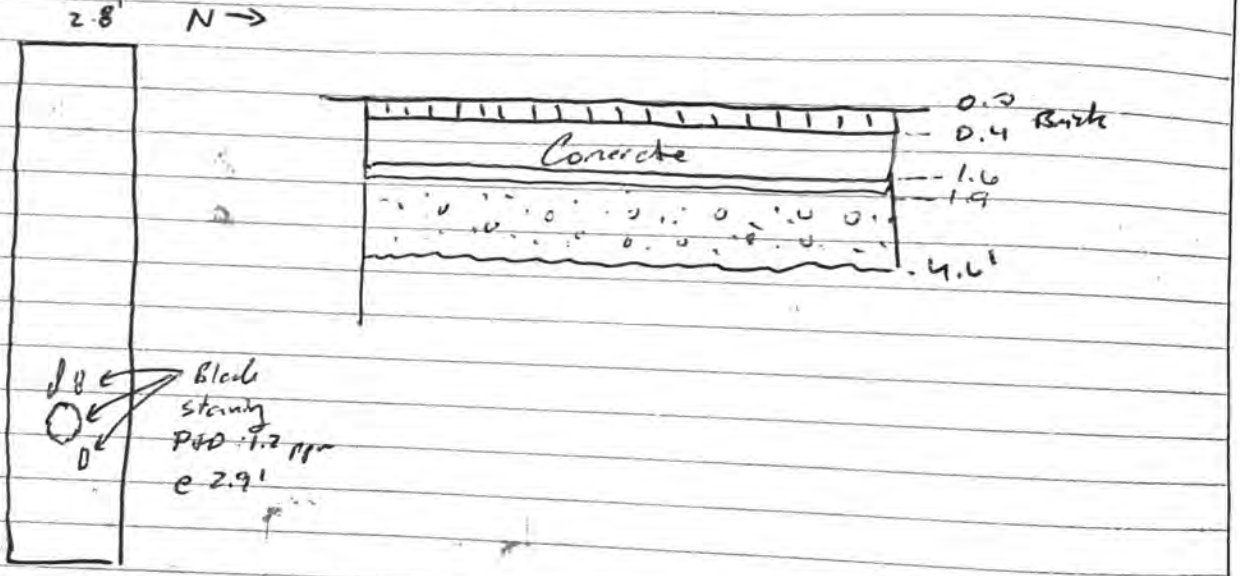
PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/9/20
Weather: 34°F, Snow
Personnel: Sims

-0950 - Began backfilling TP-2020-06D
-1001 - Completed backfilling TP-2020-06D. Will decon bucket then mobilize to TP-2020-07.
-1020 - Completed deconning. Mobilized to TP-2020-07 and began excavating. Dimensions: 2.8' x 12'



0.0 - 0.4' - Yellow reddish brick top layer
0.4 - 1.6' - Concrete sub base w/ rebar reinforcement
1.6' - 1.9' - Crushed river sub base
1.9 - 4.6 - Dark brown, moist, fine to medium sandy silt w/ small to medium rocks and gravel.
@ 2.9' there's some black staining w/ PID 4.4 w/ 1.7.
Sheen on standing water. Slight odor
2.8' - 2.9'. Continued digging. Expected area w/ strong odor/sheen up to 3.3' w/ S.O. PID. Would scrap pulled out oil/staining. Came in w/ a lot of water. Will take sample:
TP-2020-07-2.8-3.3 @ 1220

SIGNATURE DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY DATE

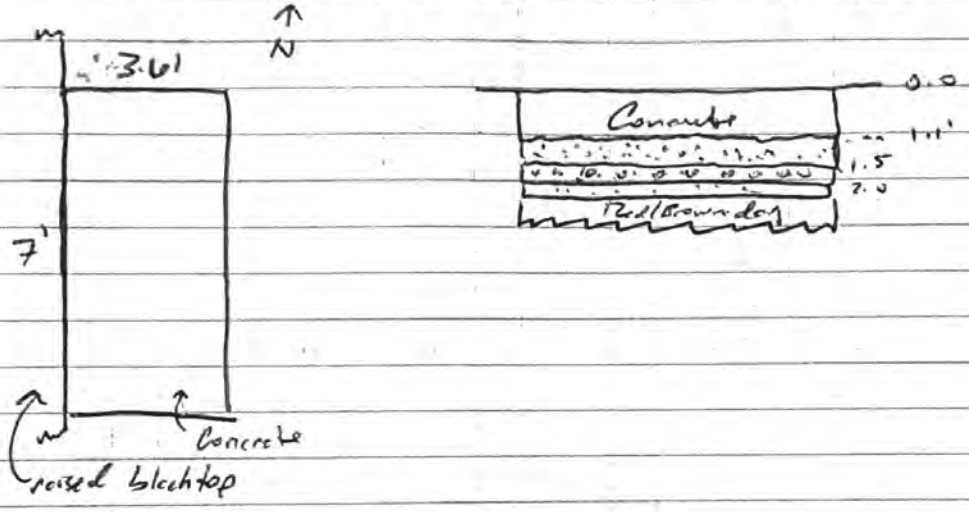
PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/9/20
Weather: 36°F, Cloudy
Personnel: Same

- 1220 - Began backfilling TP-2020-07.
- 1230 - Jenelle Gaylord NYSDEC departs site
- 1300 - Completed backfilling / decanning. Mobilized to TP-2020-05. Dimensions 3.6' x 7'



0.0 - 1.1' - Concrete. Reinforced w/ rebar
1.1' - 1.5' - Crushed run sub base
1.5 - 2.0 - Brown medium to coarse sand w/ some gravel. Wet (Fill) + small to medium rounded cobbles
2.0 - 2.4 - Gray ~~mot~~ fine to medium sand w/ some gravel
2.4 - 3.0+. Reddish brown clay w/ gray mottling. (Native). Will take sample 2.4-3.0. had to stop excavation Pit becoming too saturated / sides caving in
- 1417 - Began backfilling TP-2020-05.
Sample ID: TP-2020-05 - 2.4-3.0 @ 1417
- 1430 - Completed backfilling TP-2020-05. Will decon then mobilize to TP-2020-04
- 1522 - Began excavating TP-2020-04. Excavating in new location. Previously determined location in rubble had concrete sub base / footer.

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

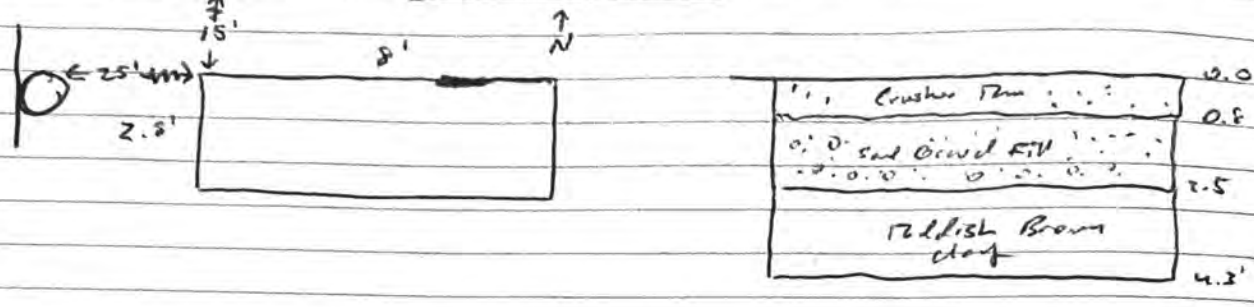
Date: 12/2/20

Weather: 36°F, Cloudy

Personnel:

Brick Road

TP-2020-04



0.0 - 0.8 - Grey crusher run fill. 2" stone

0.8 - 2.5' - Brown, medium to coarse, moist sand w/ small to medium ground and cobbles. 2.5' Black possible stained area of soil ~1" thick on N side

3.3' - Water gathering in Pit

2.5' - 4.3' - Red brown clay w/ grey mottling

4.3' - unk. - Hard / Solid sub base. Possible concrete

Took sample TP-2020-04-4.0-4.3 @ 1545

- 1550 - Began backfilling TP-2020-04
- 1600 - Completed backfilling. Will begin decanning excavator bucket
- 1630 - All parties depart site (End of Day)
  - Screenshot from Notangle left @ 1430 for doctors appointment.

L.P. Long 12/2/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

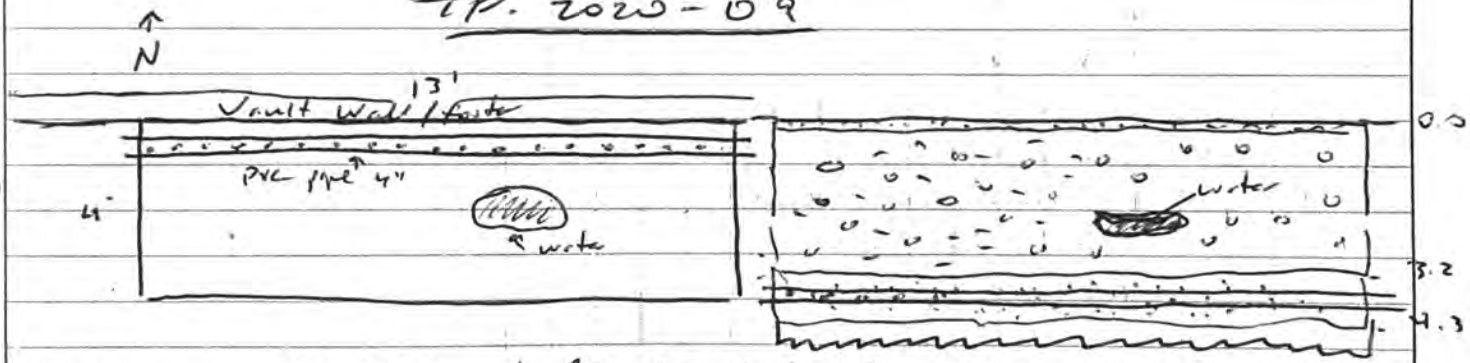
TITLE PROJECT

Continued from page

Date: 12/10/20
Weather: 37°F, Mostly Cloudy
Personnel: Sean P. Connelly; David Cofield (Arcom)
Kevin Bush's Jeremiah (Nothnagle)

- 0725 - S. Connelly on site.
- 0735 - Nothnagle crew arrives on site
- 0740 - D. Cofield on site.
- 0745 - Conducted H/S meeting. Will get ready and mobilize to TP-2020-09. Round Test Pit to excavate
- 0800 - Begin excavating TP-2020-09
Dimensions: 4' x 13'

TP. 2020-09



0.0-0.2 - Dark black silty fill w/ small to medium size gravel. Organics/roots
0.2 - 3.2' - Dark grey to black. crusher run fill w/ black medium to course sand. ~2.5-3" stone crusher run. @ 2.2' down and ~4' from East side. Water begins pooling
3.2' - 4.3' - Peat gravel. Drainage pipe running along N side. Perforated PVC 4"
4.3 - 4ish - Hard sub base. Possible concrete.
- 0.0 PID hits throughout all layers
- 0832 - Begin backfilling. Will take sample of to layer 0.0-0.2 due to silty matrix + most organics. All other layers has matrix composing almost entirely of stone.
TP. 2020-09-0.0-0.2 @ 0830

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: ~~10/12/20~~ 12/10/20

Weather: 39°F, Cloudy

Personnel: S. Connelly; D. Cofield: Aecom
Kevin Busch; Jeremiah Nothnagle

-0927- Nothnagle finished backfilling TP-2020-09 and decanning excavator. Spoke w/ Gutmann + Jenelle (NYSDEC), Nothnagle all set to call of equipment (completed the scope of work). Will organize samples/equipment and begin surface water sampling.

- Generated a total of 4 more drums. 2 drums from Test Pit poly, 1 drum of Decon Pad plastic, 1 drum of decon pad water. Total of 6a drums total.

-1030 - Nothnagle departs site.
-1115 - D. Cofield departs site.
-1245 - D. Cofield returns to site
-1300 - M. Gutmann arrives on site.
-1400 - D. Cofield off site
-1415 - M. Gutmann off site.
-1445 - Completed organizing surface water + sediment bottles. Will depart site for TA to drop off Test Pit samples
-1530 - ~~Nothnagle on~~ 50' 12/60 ps Admar on site to pick up Excavator + Hammer
-1540 - Admar offsite.
-1600 - Arrive @ TA to drop off samples.

SIGNATURE DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 12/4/20

Weather: 35°F; cloudy

Personnel: S. Connelly

1000. Arrive on site. Completed H/S. Will perform all surface water sampling

Sample ID	Time Collected
SW-2020-01	1300
SW-2020-02	1330
SW-2020-03	1400
SW-2020-04	1430
SW-2020-05	1500

1600 - Completed all surface water sampling. Offsite.

12/4/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

PROJECT

TITLE

Continued from page

Date 12/21/20
Weather: 39°F, Cloudy
Personnel: Tom Hudson, David Cofield, Sean P. Connolly

-1100- Arrive on site. Will perform sewer/sediment sampling. Using an ISCO sampler for sewer water and a bucket sampler for sediment sampling.

-1315- Took DI-8 sample. ID: DI-8-2020.
Sediment description: Dark black sediment w/ decaying organics. Strong oil smell w/sheen on water. Clear water.

-1430- Took MH-107 sample: ID: MH-107-2020
Sediment description: Dark black silty sediment w/ decaying organics. Very strong oil odor w/ sheen on water. Dark black water.

-1545- All parties depart site. Will head to TA to drop off samples

-1620- Dropped samples off @ TA. End of Day

12/21/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 12/22/20
Weather: 32°F, Mostly cloudy
Personnel: Tom Urban, David Cottrell, Sean P. Connolly

-0730- Arrive on site. Will perform H&S meeting then continue Sewer, sediment and asphalt sampling.

-0900- Took MH-201 sample. ID: MH-201-2020
Sediment description:

-1015- Unable to locate MH-201. Underwater / under Ice. Unable to locate MH-83B and MH-86. Both buried under vegetation or fill. Returned to forge area and will sample MH-60

-1040- Took MH-60 sample. ID: MH-60-2020 W/FD-122220
Sediment description: Dark black silty sediment w/ oil sheen on water.
- The FD is taken for all parameters including: Sewer Water/Sediment, PROW, Full TCLP

-1340- Took MH-113 sample. Sample ID: MH-113-2020 w/ms/msd for sewer water/sediment parameters only
Sediment description: Light brown sand layer above a dark black silty sand w/ decaying organics, strong oil/petroleum smell w/ sheen and bubbles

-1500- Took MH-132 Sample. Sample ID: ~~MH-B~~ SAC MH-132-2020 (POTW Sample w/ TCLP)
Sample description: Dark ~~grey~~ SAC grey to black silt w/ trace clay. Oil sheen w/ slight odor

-1600- All parties off site. Will drop off samples @ TA.
-1626- Arrive @ TA to drop off samples

12/22/20

Continued to page

SIGNATURE | DATE

DISCLOSED TO AND UNDERSTOOD BY | DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/23/20
Weather: 34°F, mostly cloudy
Personnel: Tom Urban, David Cofield, Sam P. Connolly

- 0740 - Arrive on site. Performed H/S meeting. Will continue sewer and sediment sampling
- 0745 - D. Cofield leaves site for office to complete timesheet.
- 0915 - Took MH-108 Sample. Sample ID: MH-108-2020 POTW w/ Full TCLP
  - Sediment sample description: Dark black, saturated silty sediment w/ strong petroleum odor and sheen on sediment / water
- 1050 - Took MH-58 sample. Sample ID: MH-58-2020. POTW sample w/ TCLP
  - Sediment sample description: Dark black silty sand w/ little gravel and decaying organics. Slight sheen and petroleum odor
- 1225 - Took MH-59 sample. Sample ID: MH-59-2020 - POTW sample w/ TCLP
  - Sediment sample description: Very thick, dark black silty sediment w/ decaying organics. Very strong petroleum smell. LNAPL on surface of water. Sediment had almost tar like texture.
- 1300 - D. Cofield arrives back on site.
- 1350 - Departed site early for TA to drop off samples due to short hold times
- 1412 - Arrive @ TA to drop off samples. End of Day

12/23/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/22/20
Weather: 50°F, Rain w/ Wind
Personnel: M. Gutmann ; S Connelly

-0930- Arrive on site - M. Gutmann already on site. Will attempt to find MH / CB's in Front 40 area designated for sewer/sediment sampling.

Notes: - MH-103 is the square vault
- "17" is the large vault under the boiler
- MH-310 will be replaced w/ the middle "rail road" vault near the office door RRV-01-2020
- Replace MH-86 w/ MH-85
- Replace MH-201 & w/ MH-303
- Replace MH-83B w/ vault near gap of jersey barriers

-1200 - All parties depart site

12/24/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE PROJECT

Continued from page

Date: 12/28/20
Weather: 37°F, cloudy w/ slight breeze
Personnel: Tom Hoban; David Cofield, Sean P. Connolly

-0900- Arrive @ Test America to pick up more bottle sets. Not ready upon arrival
-1030- Depart TA w/ bottle sets
-1040- Arrive @ T-Force. Perform H/S
-1200- Will sample MH-103 (Vault) Sample ID: MH-103V-2020 Calls for- POTW water sampling + sediment. No sample for sediment due to depth of vault being > 20'.

-1330- Will sample boiler containment area. Sample ID: BC-01-2020 "Boiler Containment". Will sample for regular water + sediment. Sediment description: Dark black silty sediment w/ decaying organics
-1430- Will sample MH-53-2. Sample ID: MH-53-2-2020. Will sample for full sediment/water w/ POTW and Full TCLP.

-1600- All parties depart site. D. Cofield to take samples to lab. (End of Day)

12/28/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 12/29/20

Weather: 27°F, Overcast w/ breeze

Personnel: David Cofield, Tom Urban, Sean R. Connelly

-0730- Arrive on site. Will perform H/S meeting and prep for todays sampling

-0900- Will collect MH-64. Sample ID: MH-64-2020. Sewer water + sediment w/ POTW, TCLP and 2 extra bottles for 2,3,7,8-TCDD EPA 613.
- Sediment sample description: Black, silty sediment w/ decaying organics, Strong oil/petroleum odor w/ sheen.

-1030- Will collect RRV-01-2020, "Railroad vault". Will sample regular sediment + water w/ TCLP for soils and 2 extra 1 liter containers for 2,3,7,8-TCDD EPA 613.
- Sediment sample description: Dark brown, silty sand sediment w/ little gravel. No odor or sheen.

-1240- Will sample MH-85A in place for MH-86 due to MH-86 not being able to be found. Most likely buried. Sample ID: MH85A-2020 Will sample for regular sewer + sediment + TCLP and 2,3,7,8-TCDD EPA 613.
- Sediment description: Black silty sandy sediment w/ little gravel. Slight odor

-1355- Will attempt to open manhole on S. Side of Front 40 which will be sampled to replace MH-83B

-1430- Completed opening vault. Will sample tomorrow w/ MH-305 and LWADL locations

-1450- D. Cofield offsite to deliver samples to lab. T. Urban/S. Connelly to prep for tomorrow

-1600- T. Urban / S. Connelly off site. (End of Day)

Continued to page

SIGNATURE

DATE 12/29/20

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE

PROJECT

Continued from page

Date: 12/30/20
Weather: 30°F, Partly Cloudy
Personnel: Tom Uhlem, David Cofield, Sean P. Connelly

-0730 - Arrive on site. Will perform H/S meeting arrive on site
-0800 - M. Gutmann, to inspect the waste water treatment facility
-0900 - Will collect MH-305. Sample ID: MH-305-2020. Will collect regular sewer + sediment samples.
- Sediment sample description: Black silty sediment w/ decaying organics w/ decaying organic odor. No sheen or petroleum odor
-1020 - Will collect F40EV sample. "Front 40 East Vault". Sample ID: F40EV-2020. Will collect regular sewer + sediment sample w/ PCOW and full TCLP samples. Sediment sample description: Black, silty semi solid sediment. Oil/petroleum sheen w/ slight odor.
-1145 - Will sample MH-119 for LNAPL. Sample ID: MH-119-2020
LNAPL Description: 0-1", Amber colored oil. 1"- Dark blue to black, lumpy tar/oil
-1200 - Will sample MH-121 for LNAPL. Sample ID: MH-121-2020
LNAPL Description: Same as MH-119 LNAPL sample
-1205 - Will attempt to sample sediment out at MH-103V using the ponar dredge. Will use sample time of 1210. Sample ID: MH-103V-2020. Will collect samples for sediments and TCLP if possible. Collected all sample parameters + TCLP
Sediment description: Black silty sand sediment w/ little gravel and decaying organics. Strong oil/petroleum odor w/ sheen and bubbles on water.
-1300 - All parties depart site. Will drop samples off @ TH Buffalo
-1320 - Arrive @ TH to drop off samples. End of Day

12/30/20

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE **PROJECT**

Continued from page

Date: 1/6/21
Personnel: Tom Urban; Sean P. Connolly
Weather: 34°F, Cloudy

- 0800 - Arrive on site. Will organize office area and bring unneeded equipment back to storage unit.
- 0900 - Depart site for storage unit.
- 0930 - Arrive @ storage unit
- 0947 - Depart storage unit for office
- 1000 - Arrive @ office

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

C-Forge CC Sample List

1/24/22

CC-28-21C 1050 - Red Concrete Aggregate

CC-29-21C 1055 - Tan Concrete Aggregate

CC-30-21C 1105 - Yellow Brick

CC-27-21C 1110 - Grey ~~Tan~~ Concrete Aggregate

CC-26-21C 1120 - Grey Concrete Aggregate

CC-25-21C 1125 - ~~Grey~~ Concrete Tan/Red

CC-24-21C 1127 - Red Brick

CC-23-21C 1130 - Grey Brick

CC-32-21C 1235 - Tan/yellow Brick

CC-31-21C 1240 Relocated ~15'S of CC-30 Sand on brick Tan Concrete - Collect RD-20210124-1

CC-33-21C 1245

CC-34-21C MS/MSD 1250 - MS/MSD - Edge of yellow brick & scarified area

CC-41-21C 1300 - Red Brick

CC-36-21C 1400-

CC-35-21C 1410

CC-37-21C 1415

CC-38-21C 1420

CC-39-21C 1425

CC-40-21C 1445

T-Force Surface Soil Sampling

1/25/22

SF-43-21 ① @ 1000 PCBs x1

SF-42-21 ② @ 1030 PCBs x1

SF-41-21 @ 1050 PCBs x1

SF-40-21 @ 1105 PCBs x1

SF-39-21 @ 1130 PCBs x1

SF-38-21 @ 1200 PCBs x1

SF-37-21 @ 1210 PCBs x1

SF-44-21 w/MS/MSD @ 1345 PCBs SVOCs Arsenic

SF-45-21 w/DUP @ 1355 PCBs SVOCs Arsenic
FD-20220125-1

↑ Semis + Arsenic + PCBs

SF-43-21 Log

5.4c Sampler
0.6' from
end of SMC
sampler
Recovery 0.6/3.0
Sample @ 1.0'

1/25/22
- 0 - 1.2' - Brick/
concrete
1.2' - 3.0' - Brown moist
F-C SAND
- Offset ~ 10' N from original
no sample due to thick
concrete/foundation

SF.42-21 Log

offset ~ 10' N
from original due
to thick concrete/
foundation

1/25/22
- 0 - 0.8' - Brick/Concrete
1.0 - 3.0 - Same as
1.2 - 3.0 on SF.43.21
Recovery 1.0/3.0

SF.41.21

1/25/22
0 - 1.0 - ~~Brown~~
Light Red Brown
silty sand Fill, trace
to some gravel
Rec 1.0/3.0 Slight oil odor

SF.40-21

1/25/22
0 - 1.1' - Concrete
1.1-3.0 Brown, wet silty
sand Fill w/trace to
some gravel
Rec 1.0/3.0

SE-39-21
Rec 1.5'
offset due to
refusal @ ~0.5'
refusal w/ SMEC 2.0'

Pull Back
0-0.3 - ~~Gravel~~
0.3-1.2 ~~3.0~~ Concrete
1.2-2.0 - Brown,
moist silty sand FG
w/ trace → some gravel

SE-38-21 @ 1200
Limited volume

0 - 1.2' - Concrete
1.2 - 3.0 - Brn/Gry
Wet S+G Fill.
Void Space

SE-37-21
Loose gravel
@ 1200

0 - 3.0
Loose gravel / cobble
w/ Silty S+G
will take sample
No SMEC sample

SE-98-21 ~~1600~~ ~~TBD~~
Extend 1-2' / 2-3'
Drill + Hand auger.
PCB / SVOCs / Arsenic
x 1 x 8oz per interval
~~@ 1510~~

No sample on 1/25/22

SB-97-21 1/25/22
0-5 @ 1525
1-2 @ 1530
2-3 @ 1535

0-3
Silt Mottled
Dk Brown silty clay

SB-96-21

~~0-5~~

1-2 @ 1540

2-3 @ 1545

Some clay

SB-95-21

1-2

2-2.5

Offset 2-2.5 to center of 13 boulders to refusal on cobble @ original location

Some clay

1-2 - Red Brn sdy Mottled Clay

2-2.5 - Red Brn Clay w/ round gravel sub base - 1 place fill for round sub base

---

SB-94-21

0.0.5 @ 1610

1-1.75 @ 1615

~~2-3 @ 1620~~

PCB SVOCs Arsenic per internal Info for full analytics

Refusal @ 1.75

0.05 - Dark Brn Silty topsoil w/ organics / small roots

0.5 - 1.75 - Clay

~~SB-101-21~~

~~1-2 @ 1645~~

~~2-3 @ 1650~~

AECOM

Job Tonawanda Forge | Project No. 60633654 | Page ___ of ___
Description Boring Logs | Computed by S. Connelly | Sheet ___ of ___
Checked by ___ | Date 1/26/22 | Date ___
Reference

SB-85-21 Date 1/26/22

~~0 - 0.5 - Concrete~~
0 - 0.7 - Light Brn S+G FILL
0.7 - 4.0 - Blk, vy fine silty sand (clay)
4.0 - ~~wet~~ - 6.4 - Blk, saturated silty S+G
~~10.7 - 12 - Red Brn Clay w/ grey mottling~~
6.4 - 10.7 - Tannish Brn, wet S+G
10.7 - 12 - Red Brn, moist, clay w/ grey mottling

0.0 ppm ↓
0-4 100% Rec
4-8 50% Rec
8-12 50% Rec

SB-86-21 Date 1/26/22

0 - 2.5 - Tannish Brn S+G FILL becoming blk from 0.7 → 1.6
2.5 - ~~4.7~~ Red Brn Clay w/ grey Mottling
4.7 → 5.3 → Grg Brn Clay w/ little → some S+G
Refusal @ 5.3

0-4 75% Rec
4-8 1.3/4.0

SB-89-21 Date 1/26/22

0 - 0.8 - Concrete
0.8 - 2.~~7~~ - Grg, moist → wet S+G FILL
2.2 → 8.0 - Red Brn Clay w/ grey Mottling

0.0 ppm 0-4 → $\frac{2.2}{4.0}$ Rec
0.0 ppm 4-8 → 100% Rec

SB-87-21 Date 1/26/22

0 - 0.8 - Concrete
0.8 - 4.0 - Grg moist → wet S+G FILL
4.0 → 8.0 - Red Brn clay w/ grey mottling
4.0 → 4.3 → same as above w/ blk staining

0-4 → 0% Rec
0.0 ppm 4-8 → 100% Rec

AECOM

Job Tonawanda Forge — Project No. 60633654 — Page ___ of ___

Description Boring Logs (cont.) — Computed by S. Connelly — Date 1/26/22 — Sheet ___ of ___

Checked by ___ — Date ___ — Reference

SB-SS-21 Date 1/26/22

0 - 1.1 - Concrete slab
1.1 - 1.5 - Gry, dry S+G Fill
1.5 - 8.0 - Rd Brn, moist Clay w/ gry mottling

0.0 ppm 0-4 2.6/4.0 Rec
0.0 ppm 4-8 100% Rec

SB-S3-21 Date 1/26/22

0 - 1.1 - Concrete Slab
1.1 - 1.3 - Gry dry S+G Fill
1.3 - 8.0 Rd Brn moist clay w/ gray mottling

0.0 ppm 0-4 - 2.7/4.0 Rec
0.0 ppm 4-8 100% Rec

SB-S2-21 Date 1/26/22

0 - 0.9 - Concrete slab
0.9 - 11 - Tan/rd brn, ~~wet~~ moist → wet S+G Fill
Refusal @ 11.0'

0.0 ppm 0-4 0.6/4.0 Rec
0.0 ppm 4-8 2ft Rec
0.0 ppm 8-12 1.5/4.0 Rec

AECOM

Job Transmountain Fuse — Project No. 60633654 — Page 1 of ___

Description ___ — Computed by ___ — Sheet ___ of ___

Checked by ___ — Date 1/27/22

Reference

- 0825 - Arrive on site. Perform H/S meeting - discuss to conduct coring + soil borings. Calibrate equipment
- Took baseline air quality readings
- Dustrak: Conc: 0.016 mg/m³
  TWA: 0.016 mg/m³
- ~~QRae~~ - QRae: CO: 0.0 H_2S: 0.0
  LEL: 0.0 Oxy: 20.9

SB-01-21
0 - 1.5 - Concrete
1.5 - 2.1 - S+G Fill
2.1 - 8.0 - R B Clay

Samples: 1.7 - 2.1 @ 1000
2.1 - 2.7 @ 1005
~~2.7~~ 3.5-4.0 @ 1007
PCBs
5.0 - 6.0 @ 1010
7.0 - 8.0 @ 1012

Ended boring @ 8.0'

FD-20220127-1

Completed boring @ 1015 - will move to SB-02-21

Air Quality QRae - No readings
Dustrak: Conc 0.126 mg/m³
TWA: 0.065 mg/m³

Samples: SB-02-21
3 - 3.7 @ 1028
3.7 - 4.0 @ 1030
10 - 10.5 @ 10:35

0.0 - 0.7 - Concrete
0.7 - ~~5.7~~ 3.0 - Brn S+G fill moist
3.0 - 3.7 - Red Brn Clay w/trace sand
3.7 - 4.0 - Medium Brn sand ~~w/~~ moist w/trace small gravel.

0-4 1.0/4.0
4-8 0.0
8-12

Refusal @ 10.5

4.0 - 10.5 - Same as 3.7 - 4.0

AECOM

Job Tonawanda Forge — Project No. 60635654 — Page 2 of ___
Description Soil Borings Cont'd — Computed by ___ — Date 1/20/22 — Sheet ___ of ___
Checked by ___ — Date ___
Reference

1127 Air Quality Readings
ORae: No readings
Duotech: Conc 0.0 BG
TWA 0.0 DP8

SB-90-21

0-1.2 - Concrete
1.2-2.7 - S+G Fill
2.7-3.1 - Rd/Brn Clay sig mottling
3.1-4.0 - Rd/Brn Clay w/ Blk staining
Blk staining → 4.3
4.3-8.0 → Rd Brn clay w/ grey mottling
8-10 same as above w/ S+G layer from 8.6-8.8'

10' total at boring

0-4 Approx
sampled - 2.7-3.1 @ 1132
- 3.1-3.6 @ 1135
- 3.6-4.0 @ 1137
4-4.3 @ 1140
7-8 w/ MS/MD @ 1145

1.1
0.5

SB-93-21

0-0.6 - Blacktop
0.6-1.1 - Concrete
1.1-2.0 - Rd Brn S+G Fill
2.0-4.0 - Rd-Brn Clay w/ grey mottling + Blk staining from 2.0-2.5 + 3.3-3.6
4.0-8.0 - Rd Brn clay w/ grey mottling

sample 1.6-2.0 @ 1217
2.0-2.5 @ 1218
3.3-3.6 @ 1220
3.6-4.0 @ 1222
7-8 @ 1228
FD-20220127-2 @ 7-8'

AECOM

Job Tonawanda Forge — Project No. 60633654 — Page 3 of —
Description Boring Logs — Computed by — Sheet — of —
Checked by — Date 1/27/12 — Date —
Reference

- $240 - Begin SB-91-21
  Air Quality Reading
  QRae: No reading
  Dustrak: Conc: 0.084
  TWA: 0.072

SB-91-21

0.0 - 0.5 - Blacktop
0.5 - 1.5 - Concrete
1.5 - 4.0 - Red Brn clay w/ trace to some gravel + trace blk staining throughout
4.0 - 8.0 - Red Brn clay w/ slight Blk staining from 4 - 4.5
End of boring @ 8.0'

Sample
3.5-4.0 @ 1243
4.0-4.5 @ 1250
7.5-8.0 @ 1252

- 1310 - Weather 25°F Cloudy/Snow
  QRae: No readings
  Dustrak: Conc 0.024 mg/m3
  TWA 0.071 mg/m3

SB-92-21

0-1.45 Concrete/Blacktop
1.45-2.5 - Silt & Fill
2.5 - 4.0 + Red Brn Silt & Clay w/ possible Blk staining 2.5-2.8
4.0-8.0 - Red Brn Clay w/ Org Mottling
8.0' end of boring

Sample
1.5-2.0 @ 1315
2.5-3.0 @ 1317
3.5-4.0 @ 1320
7.5-8.0 @ 1325

- 1410 - Will begin SB-84-21 in new location
Air Quality: PRae: No readings
Dustrak Core: 0.046 mg/m³
TWA: 0.036 mg/m³

SB-84-21

0.0-1.1 - Concrete
1.1 - 4.0 - Brn, moist → wet S+G Fill
4.0 - 7.6 - Same as above (wet). Sheen + slight odor @ 6.6 → 7.6
7.6 - 8.0 - Red Brn Clay w/ grey mottling
8 - 12 - Same as above
12' End of boring

Sample 3.5-4.0 @ 1412
Sample 6.6-7.6 @ 1417
Sample 9-9.5 @ 1430
Sample 11.5-12 @ 1435

- 1435 - Completed SB-84-21 will move to new additional boring SB-103-21.
Air Quality: PRae: No readings
Dustrak: Core: 0.029 mg/m³
TWA: 0.105 mg/m³

SB-103-21

0-1.0 - Concrete
1 - 2.9 - S+G Fill / Brn Moist
2.9 - 4.0 - Brn, moist F-S Medium Sand w/ gravel.
4.0 - 11.6 → Same as above (wet)
11.6-12 → Red brn clay w/ grey mottling
12' end of boring

Sample 3.5 → 4.0 @ 1500
11.2-11.5 @ 1513
11.5-12 @ 1515

AECOM

Job Tonawanda Forge — Project No. 60633654 — Page 1 of ____
Description Complete Soil Borings along 6M Boulevard — Computed by S Connolly — Date 1/28/22 — Sheet ____ of ____
Checked by ____ — Date ____
Reference

- 0815 - Arrive onsite.
  Weather: 14°F, Cloudy, light snow
- Will begin collecting soil borings along 6M. Blvd
  Soil borings will be collected up to 3' w/ intervals 1-2 and 2-3 w/ PCBs / SVOCs / Arsenic being taken @ each interval. Need 1 MS/MSD and 1 FD for SVOCs + Arsenic

SB-99-21 1-2 @ ~~1040~~ ~~1140~~ 1135
SB-99-21 2-3 @ ~~1045~~ ~~1135~~ 1140

SB-100-21 1-2 @ ~~1055~~ ~~1120~~ 1115

SB-100-21 ~~2-3~~ 2-3 @ ~~1100~~ ~~1115~~ 1120

SB-101-21 1-2 @ ~~1115~~ ~~1100~~ 1055

SB-101-21 ~~2-3~~ 2-2.5 @ ~~1120~~ ~~1055~~ 1100

SB-102-21 1-2 @ ~~1055~~ ~~1045~~ 1040

SB-102-21 2-3 @ ~~1110~~ ~~1040~~ 1045

SB-98-21 1-2 @ 1155

SB-98-21 ~~2-3~~ 2-2.5 @ 1200

FD-20220128-1 taken on SB-101-21-2-2.5

- 1345 - Entrance offsite
- 1415 - Pure Environmental Picked up equipment. Dep
  for ~~site~~ office

AECOM

Page 1 of ____

Job Tonawanda Forge — Project No. 60633654 — Sheet ____ of ____

Description Complete Soil Borings along 6M Boulevard — Computed by S Connolly — Date 1/28/22

Checked by ____ — Date ____

Reference

- 0815 - Arrive onsite.
  Weather 14°F. Cloudy, light snow
- Will begin collecting soil borings along 6M. Blvd. Soil borings will be collected up to 3' w/ intervals 1-2 and 2-3 w/ PCBs / SVOCs / Arsenic being taken @ each interval. Need 1 MS/MSD and 1 FD for SVOCs + Arsenic

SB-99-21 1-2 @ ~~1040~~ ~~1140~~ 1135
~~1135~~ 1140

SB-99-21 2-3 @ ~~1045~~

SB-100-21 1-2 @ ~~1055~~ ~~1120~~ 1115

SB-100-21 ~~2-3~~ 2-3 @ ~~1100~~ ~~1115~~ 1120
~~1105~~

SB-101-21 1-2 @ ~~1115~~ ~~1100~~ 1055

SB-101-21 ~~2-3~~ 2-2.5 @ ~~1120~~ ~~1055~~ 1100

SB-102-21 1-2 @ ~~1055~~ ~~1045~~ 1040

SB-102-21 2-3 @ ~~1110~~ ~~1040~~ 1045

SB-98-21 1-2 @ 1155

SB-98-21 ~~2-3~~ 2-2.5 @ 1200

FD-20220128-1 taken on SB-101-21-2-2.5

- 1345 - Entrance offsite
- 1415 - Pure Environmental Picked up equipment. Depart ~~offsite~~ Site for ~~site~~ office

APPENDIX D

ASBESTOS CREDENTIALS

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

AECOM USA, Inc.
Suite 400
120 S. Central Avenue

Clayton, MT 63105

FILE NUMBER: 11-61642
LICENSE NUMBER: 61642
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 12/08/2020
EXPIRATION DATE: 12/31/2021

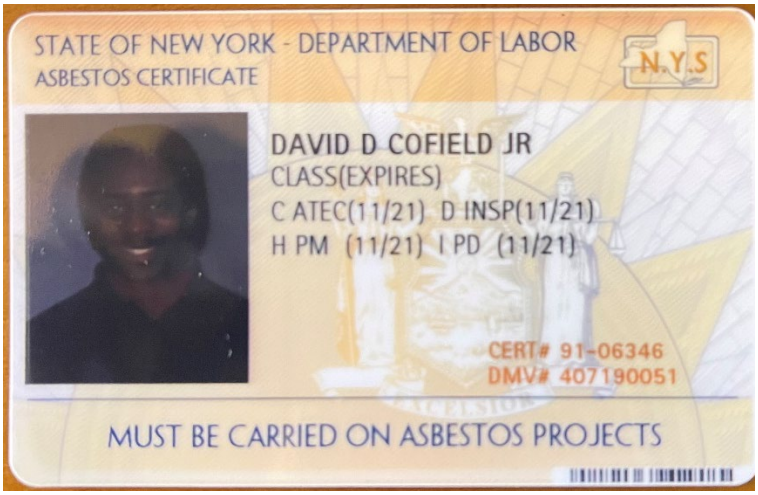
Duly Authorized Representative – Mark Connors:

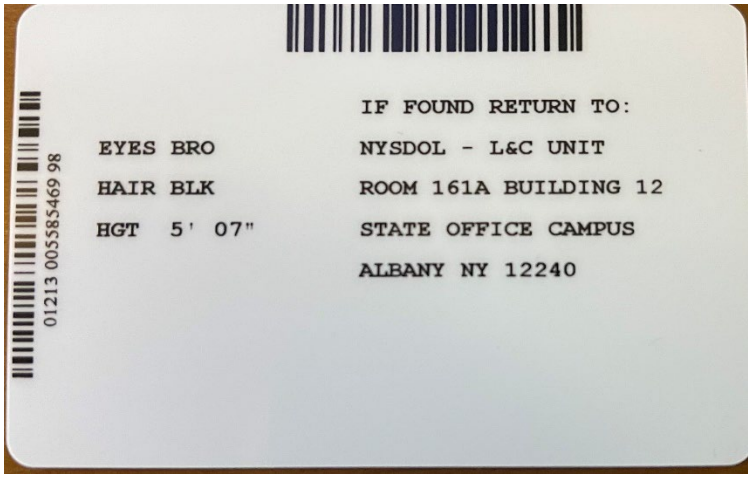
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)


STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE
N.Y.S
DAVID D COFIELD JR
CLASS(EXPIRES)
C ATEC(11/21) D INSP(11/21)
H PM (11/21) I PD (11/21)
CERT# 91-06346
DMV# 407190051
MUST BE CARRIED ON ASBESTOS PROJECTS


01213 005585469 98
EYES BRO
HAIR BLK
HGT 5' 07"
IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

APPENDIX E

SEWER SAMPLING LOGS AND INSPECTION FORMS

MANHOLE INSPECTION LOG

AECOM

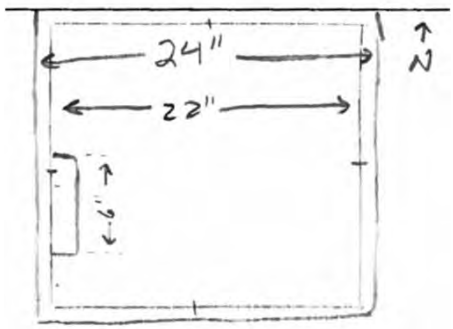
MANHOLE NO.:	DI-1	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:34
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	28"
DTP:	N/A
DTB:	48"
Sediment Thickness:	5"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6"
Pipe Location:	West Side

Sketch



MANHOLE INSPECTION LOG

AECOM

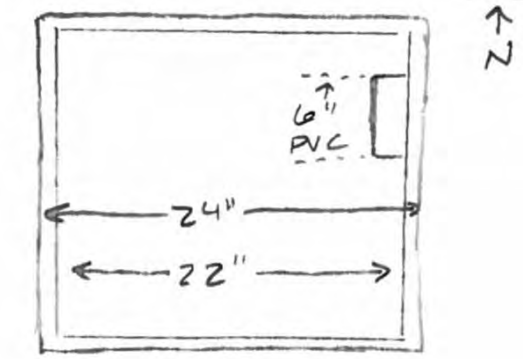
MANHOLE NO.:	DI-2	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:45
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	23"
DTP:	N/A
DTB:	47"
Sediment Thickness:	3"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" PVC
Pipe Location:	East Side

Sketch



MANHOLE INSPECTION LOG

AECOM

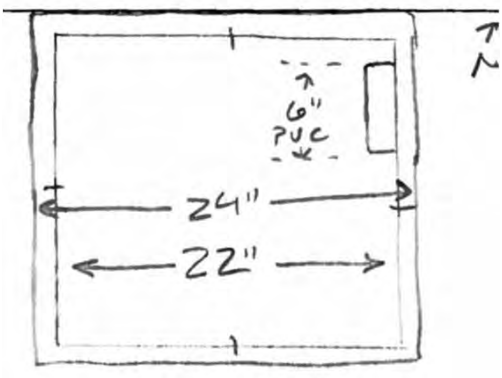
MANHOLE NO.:	DI-3	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:00
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	24"
DTP:	N/A
DTB:	60"
Sediment Thickness:	1"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" PVC
Pipe Location:	East Side

Sketch



MANHOLE INSPECTION LOG

AECOM

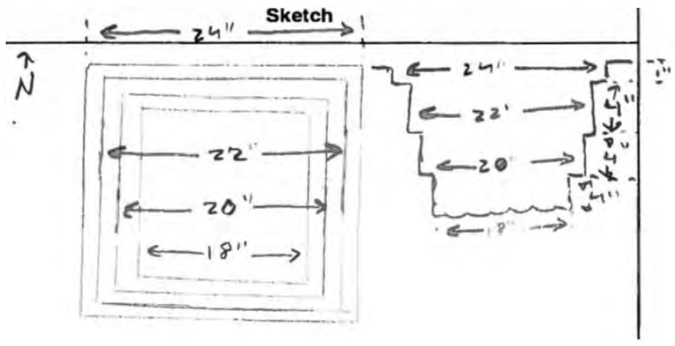
MANHOLE NO.:	DI-4	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:30
RIM ELEV.:	NA	TEMPERATURE:	64 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square with drop steps
DTW:	13"
DTP:	N/A
DTB:	62"
Sediment Thickness:	4"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

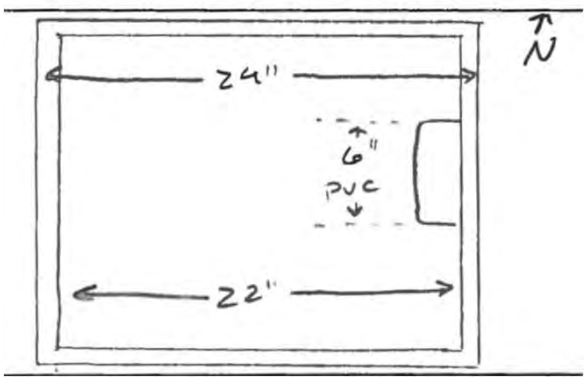
MANHOLE NO.:	DI-5	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:30
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	11"
DTP:	N/A
DTB:	47"
Sediment Thickness:	6"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" PVC
Pipe Location:	East Side

Sketch



MANHOLE INSPECTION LOG

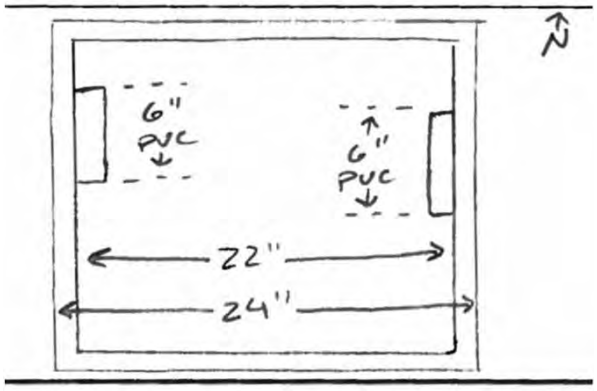
AECOM

MANHOLE NO.:	DI-6	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:35
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" square
DTW:	17.5"
DTP:	N/A
DTB:	60"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" PVC
Pipe Location:	East side

Sketch



MANHOLE INSPECTION LOG

AECOM

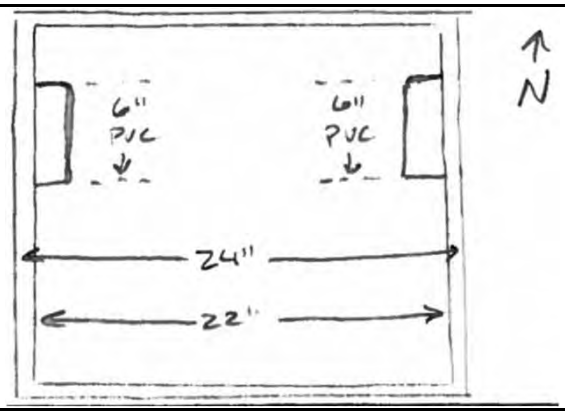
MANHOLE NO.:	DI-8	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:50
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	10.5"
DTP:	N/A
DTB:	48"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" PVC
Pipe Location:	East and West Sides

Sketch



MANHOLE INSPECTION LOG

AECOM

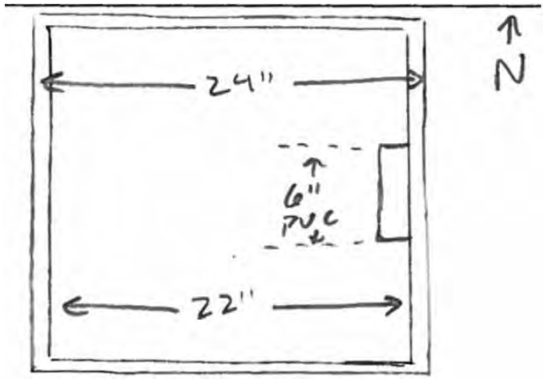
MANHOLE NO.:	DI-9	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:35
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Partly Cloudy, Windy, Intermittent Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	11.5"
DTP:	N/A
DTB:	60"
Sediment Thickness:	5"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" PVC w/ 42" Invert
Pipe Location:	East Side

Sketch



MANHOLE INSPECTION LOG

AECOM

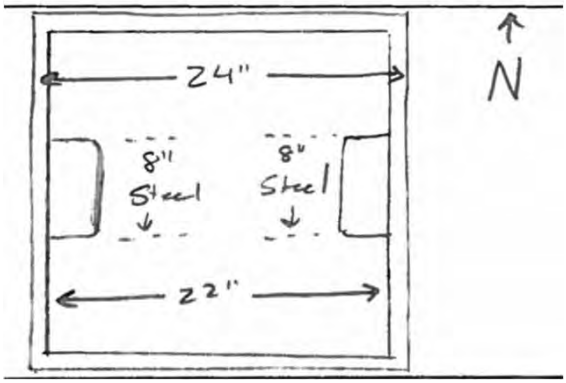
MANHOLE NO.:	CB-1	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:35
RIM ELEV.:	NA	TEMPERATURE:	45 degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square with solid steel cover
DTW:	18"
DTP:	N/A
DTB:	36"
Sediment Thickness:	6"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	8" Steel pipe
Pipe Location:	East and West sides. Invert flush with bottom of basin

Sketch



MANHOLE INSPECTION LOG

AECOM

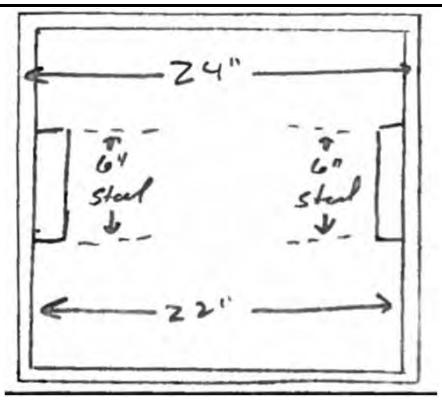
MANHOLE NO.:	CB-2	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:20
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	18"
DTP:	N/A
DTB:	36"
Sediment Thickness:	2"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	6" Steel
Pipe Location:	East and West sides with invert flush to the bottom of the basin.

Sketch



MANHOLE INSPECTION LOG

AECOM

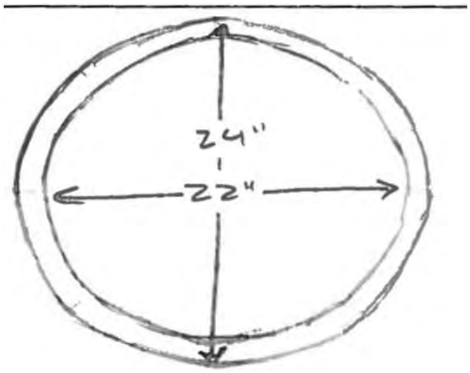
MANHOLE NO.:	CB-3	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:15
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter. Broken cover, didn't remove.
DTW:	14"
DTP:	N/A
DTB:	67"
Sediment Thickness:	4"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	UNK
Pipe Location:	UNK

Sketch



MANHOLE INSPECTION LOG

AECOM

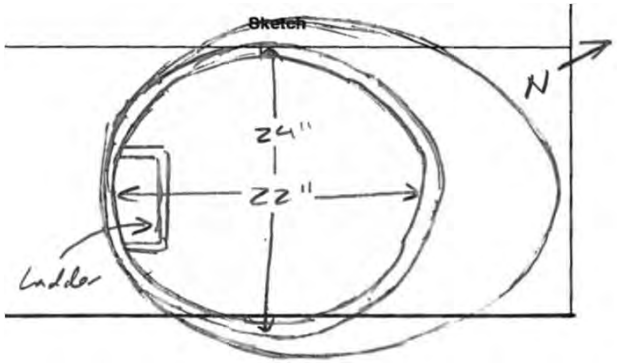
MANHOLE NO.:	CB-4	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:45
RIM ELEV.:	NA	TEMPERATURE:	45 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	40"
DTP:	N/A
DTB:	70"
Sediment Thickness:	3"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	No visible pipes
Pipe Location:	UNK

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-5	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:15
RIM ELEV.:	NA	TEMPERATURE:	45 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:		**Sketch**
Dimensions:	24" square	
DTW:	36"	
DTP:	N/A	
DTB:	54"	
Sediment Thickness:	10"	
Sheen on water Y/ N:	No	
Pipe Sizes, in.:	UNK	
Pipe Location:	UNK	

MANHOLE INSPECTION LOG

AECOM

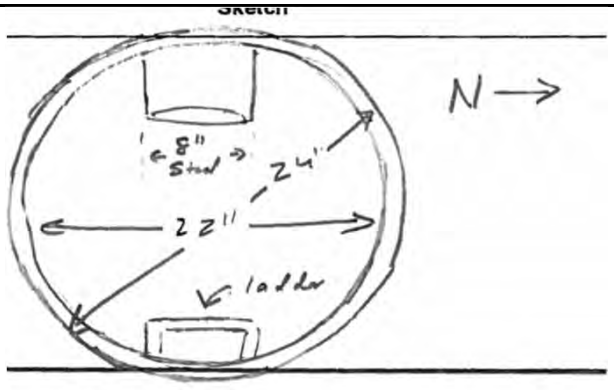
MANHOLE NO.:	CB-6	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:40
RIM ELEV.:	NA	TEMPERATURE:	45 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	38"
DTP:	N/A
DTB:	50"
Sediment Thickness:	5"
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	8" Steel with 39" invert
Pipe Location:	West Side

Sketch



MANHOLE INSPECTION LOG

AECOM

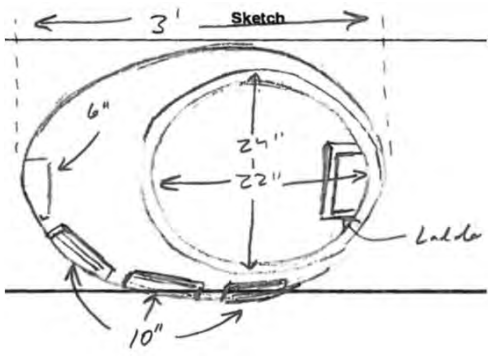
MANHOLE NO.:	CB-7	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:35
RIM ELEV.:	NA	TEMPERATURE:	45 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter opens to 3 ft on SW side
DTW:	45"
DTP:	N/A
DTB:	60"
Sediment Thickness:	4"
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	1 x 6" steel pipe and 3 x 10" corrugated
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

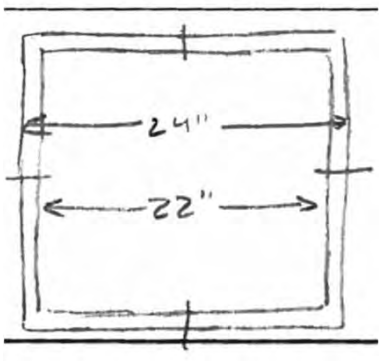
AECOM

MANHOLE NO.:	CB-8	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:52
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" square. Grown in w/ vegetation
DTW:	N/A
DTP:	N/A
DTB:	60"
Sediment Thickness:	8"
Sheen on water Y/ N:	N/A
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

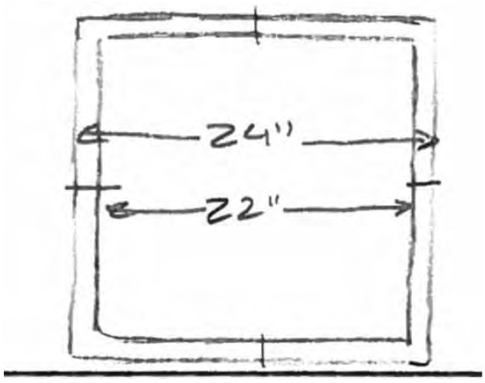
AECOM

MANHOLE NO.:	CB-9	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:58
RIM ELEV.:	NA	TEMPERATURE:	45 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" square. Grown in w/ vegetation
DTW:	Ink
DTP:	N/A
DTB:	60"
Sediment Thickness:	4-6"
Sheen on water Y/ N:	N/A
Pipe Sizes, in.:	UNK
Pipe Location:	UNK

Sketch



MANHOLE INSPECTION LOG

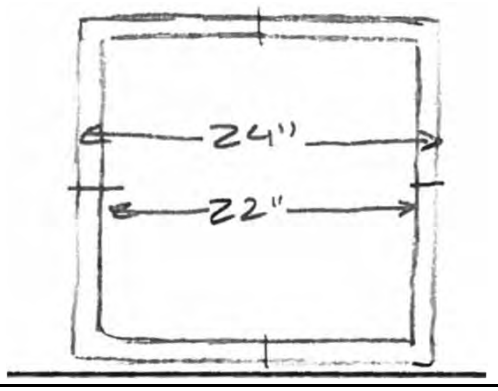
AECOM

MANHOLE NO.:	CB-10	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:03
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" square
DTW:	8"
DTP:	N/A
DTB:	24"
Sediment Thickness:	4"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	N/A
Pipe Location:	N/A

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-12	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:01
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:		Sketch
Dimensions:	24" square	
DTW:	N/A. Dry	
DTP:	N/A. Dry	
DTB:	54"	
Sediment Thickness:	48"	
Sheen on water Y/ N:	N/A. Dry	
Pipe Sizes, in.:	UNK. No visible pipes	
Pipe Location:	UNK. No visible pipes	

MANHOLE INSPECTION LOG

AECOM

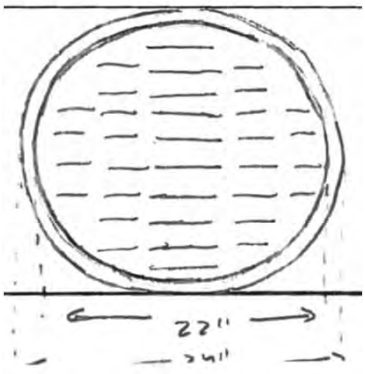
MANHOLE NO.:	CB-15	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:11
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square. Covered sealed in place.
DTW:	27"
DTP:	N/A
DTB:	43"
Sediment Thickness:	2"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

AECOM

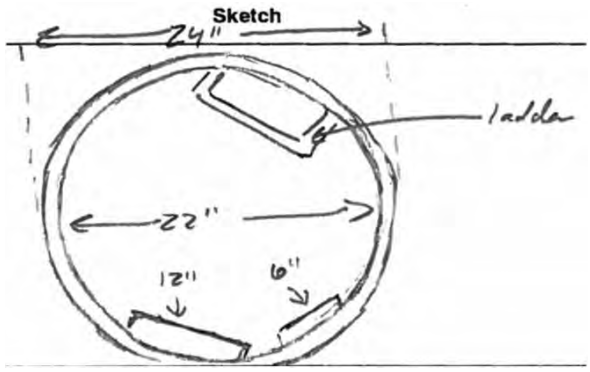
MANHOLE NO.:	CB-17	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:40
RIM ELEV.:	NA	TEMPERATURE:	50 degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft.	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	19"
DTP:	N/A
DTB:	86"
Sediment Thickness:	10"
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" w/ 22" invert. 12" w/33" invert
Pipe Location:	Both pipes on North/ North West side

Sketch



MANHOLE INSPECTION LOG

AECOM

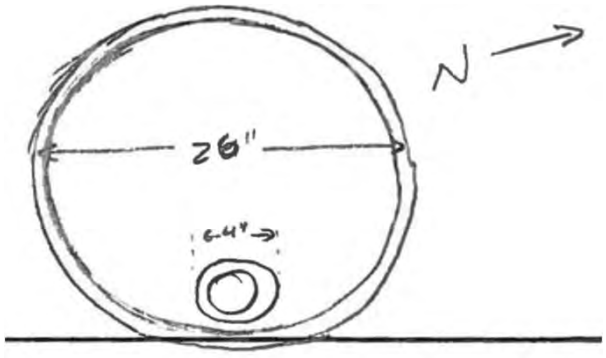
MANHOLE NO.:	CB-20	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:00
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES: From MH#_____ Distance _____ ft.	INCOMING LINES: From MH#_____ Distance _____ ft	INCOMING LINES: From MH# _____ Distance _____ ft.	OUTGOING LINES: To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" diameter
DTW:	N/A. Filled with sediment
DTP:	N/A. Filled with sediment
DTB:	46"
Sediment Thickness:	34"
Sheen on water Y/ N:	N/A
Pipe Sizes, in.:	4" vertical steel pipe
Pipe Location:	East side

Sketch



MANHOLE INSPECTION LOG

AECOM

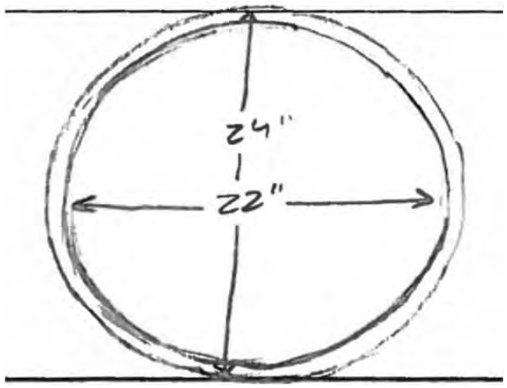
MANHOLE NO.:	CB-21	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:10
RIM ELEV.:	NA	TEMPERATURE:	
INVERT:	NA	WEATHER:	
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	10.5"
DTP:	N/A
DTB:	70.5"
Sediment Thickness:	19.5"
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	8" Steel
Pipe Location:	South West Side

Sketch



MANHOLE INSPECTION LOG

AECOM

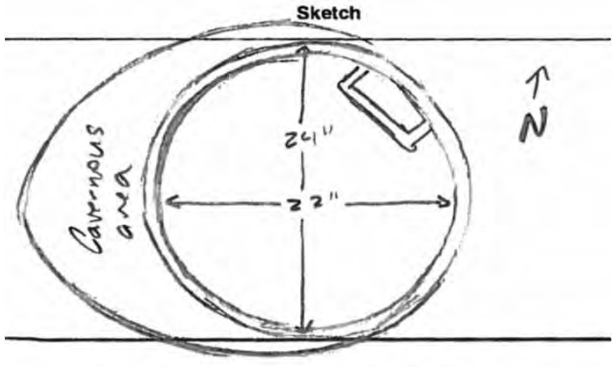
MANHOLE NO.:	CB-22	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	8:45
RIM ELEV.:	NA	TEMPERATURE:	
INVERT:	NA	WEATHER:	
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter. Catch basin opens up on West side.
DTW:	13.5"
DTP:	N/A
DTB:	82.5
Sediment Thickness:	23"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	UNK. No pipes visible
Pipe Location:	UNK. No pipes visible

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-23	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:15
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" diameter
DTW:	16"
DTP:	N/A
DTB:	64"
Sediment Thickness:	8"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	4" vertical w/ elbow into 4" horizontal
Pipe Location:	East side

Sketch

MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-25	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:18
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" diameter
DTW:	15"
DTP:	N/A
DTB:	58"
Sediment Thickness:	N/A
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	4" Vertical Steel
Pipe Location:	East side

Sketch

MANHOLE INSPECTION LOG

AECOM

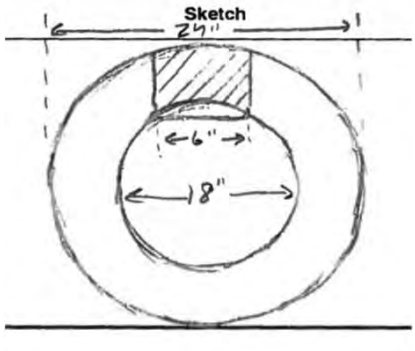
MANHOLE NO.:	CB-26	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:34
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" outer diameter, 18" inner diameter
DTW:	18"
DTP:	N/A
DTB:	43"
Sediment Thickness:	21"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	6" Steel pipe w/ 16" invert
Pipe Location:	North side

Sketch



MANHOLE INSPECTION LOG

AECOM

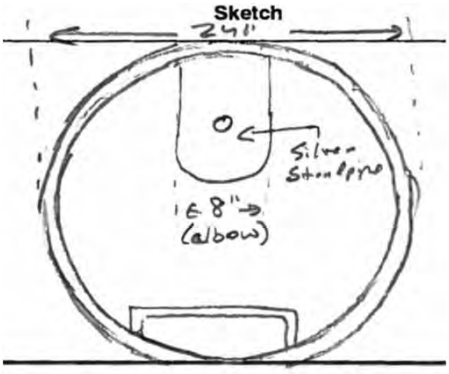
MANHOLE NO.:	CB-27	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:25
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	16"
DTP:	N/A
DTB:	77"
Sediment Thickness:	6"
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	8" Steel with 24" invert to elbow
Pipe Location:	North side

Sketch



MANHOLE INSPECTION LOG

AECOM

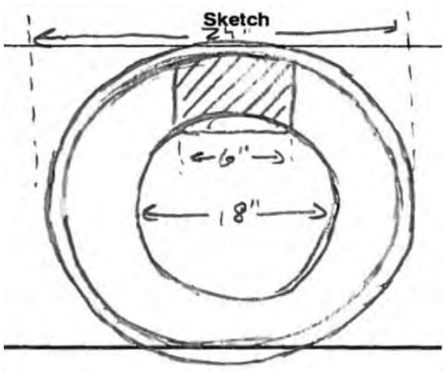
MANHOLE NO.:	CB-28	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:25
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" outer diameter w/ 18" inner diameter
DTW:	17"
DTP:	N/A
DTB:	42"
Sediment Thickness:	11"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" Steel
Pipe Location:	North side

Sketch



MANHOLE INSPECTION LOG

AECOM

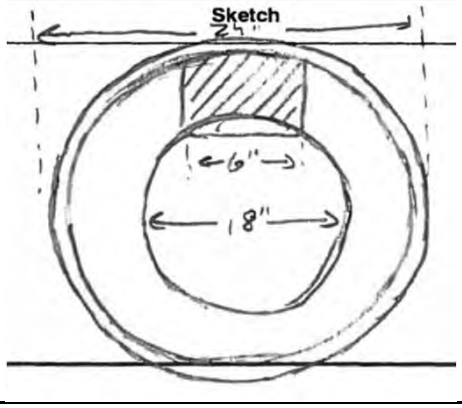
MANHOLE NO.:	CB-29	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:32
RIM ELEV.:	NA	TEMPERATURE:	47 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES: From MH#_____ Distance _____ ft.	INCOMING LINES: From MH#_____ Distance _____ ft	INCOMING LINES: From MH# _____ Distance _____ ft.	OUTGOING LINES: To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" outer diameter w/ 22" inner diameter
DTW:	10"
DTP:	N/A
DTB:	89"
Sediment Thickness:	8"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	Possible 4-6" pipe w/ 32" invert
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

AECOM

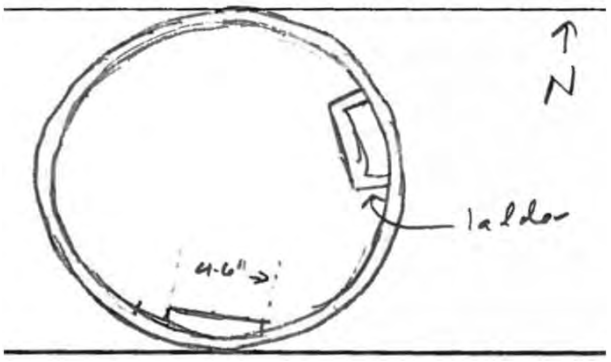
MANHOLE NO.:	CB-30	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:22
RIM ELEV.:	NA	TEMPERATURE:	47 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	23" diameter
DTW:	10"
DTP:	N/A
DTB:	86"
Sediment Thickness:	5"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	4-6" steel pipe
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

AECOM

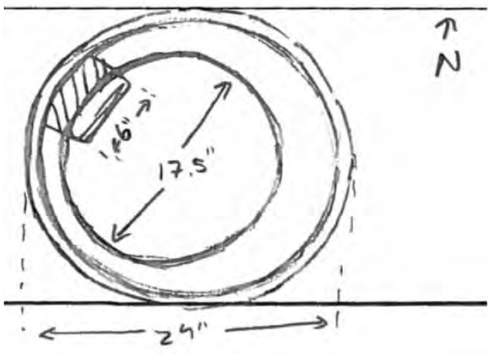
MANHOLE NO.:	CB-31	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:15
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, light breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" outer diameter w/ 17.5" inner diameter
DTW:	17"
DTP:	N/A
DTB:	45"
Sediment Thickness:	23"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	6" Steel
Pipe Location:	North East side

Sketch



MANHOLE INSPECTION LOG

AECOM

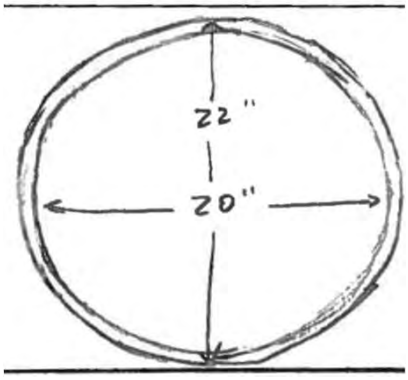
MANHOLE NO.:	CB-33	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:00
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, light breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	22" diameter
DTW:	22"
DTP:	N/A
DTB:	110"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-34	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:39
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" outer diameter
DTW:	N/A. Overgrown w/ sediment/ plants
DTP:	N/A
DTB:	UNK
Sediment Thickness:	UNK. 19" to top of sediment
Sheen on water Y/ N:	N/A
Pipe Sizes, in.:	N/A
Pipe Location:	N/A

Sketch

MANHOLE INSPECTION LOG

AECOM

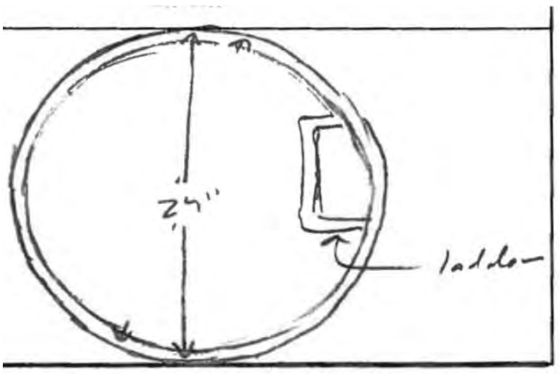
MANHOLE NO.:	CB-35	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:25
RIM ELEV.:	NA	TEMPERATURE:	66 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze, on and off showers
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	16"
DTP:	N/A
DTB:	93"
Sediment Thickness:	3"
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod.
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-36	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:30
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square w/ cloth under cover
DTW:	Filled to top with water/ sediment
DTP:	N/A
DTB:	24"
Sediment Thickness:	24"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	CB-37	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:40
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" square
DTW:	N/A Filled with sediment
DTP:	N/A Filled with sediment
DTB:	N/A Filled with sediment
Sediment Thickness:	UNK
Sheen on water Y/ N:	N/A Filled with sediment
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch

MANHOLE INSPECTION LOG

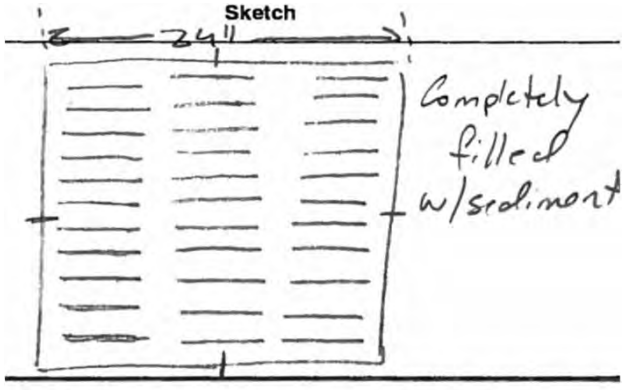
AECOM

MANHOLE NO.:	CB-40	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:20
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" square
DTW:	N/A Filled with sediment
DTP:	N/A Filled with sediment
DTB:	N/A Filled with sediment
Sediment Thickness:	UNK
Sheen on water Y/ N:	N/A Filled with sediment
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

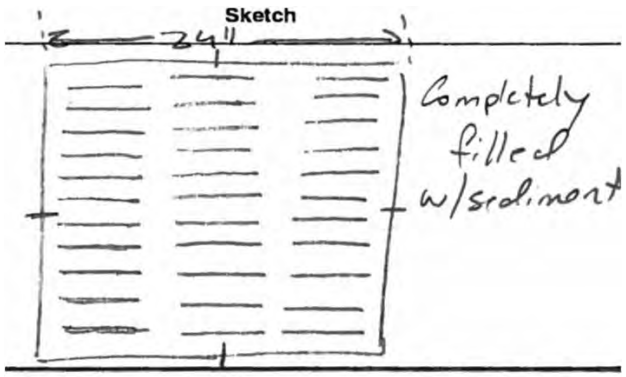
AECOM

MANHOLE NO.:	CB-41	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:28
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" square
DTW:	10"
DTP:	N/A Filled with sediment
DTB:	30"
Sediment Thickness:	8"
Sheen on water Y/ N:	N/A Filled with sediment
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

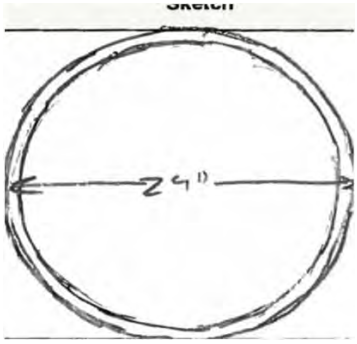
MANHOLE NO.:	MH-16	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:30
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter
DTW:	16"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	Yes, heavy sheen, when sediment is disturbed with measuring rod.
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

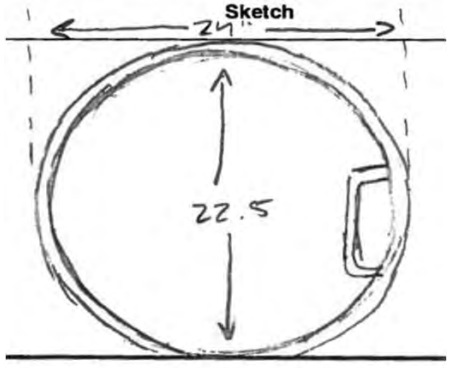
MANHOLE NO.:	MH-17	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:30
RIM ELEV.:	NA	TEMPERATURE:	60 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter, brick lined. 22.5" collar
DTW:	23"
DTP:	N/A
DTB:	114"
Sediment Thickness:	2"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

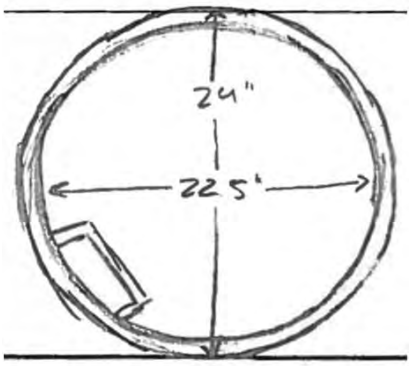
MANHOLE NO.:	MH-17A	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:20
RIM ELEV.:	NA	TEMPERATURE:	60 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter w/ 22.5" collar. Brick lined
DTW:	23"
DTP:	N/A
DTB:	118"
Sediment Thickness:	No sediment
Sheen on water Y/ N:	No
Pipe Sizes, in.:	No visible pipes
Pipe Location:	N/A

Sketch



MANHOLE INSPECTION LOG

AECOM

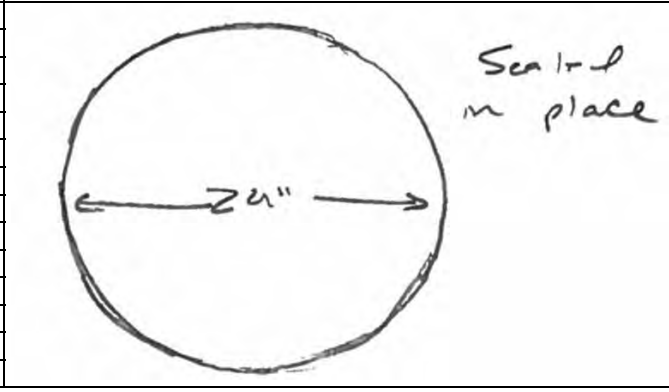
MANHOLE NO.:	MH-18	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:34
RIM ELEV.:	NA	TEMPERATURE:	63 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" Diameter
DTW:	UNK. Unable to open
DTP:	UNK. Unable to open
DTB:	UNK. Unable to open
Sediment Thickness:	UNK. Unable to open
Sheen on water Y/ N:	UNK. Unable to open
Pipe Sizes, in.:	UNK. Unable to open
Pipe Location:	UNK. Unable to open

Sketch



MANHOLE INSPECTION LOG

AECOM

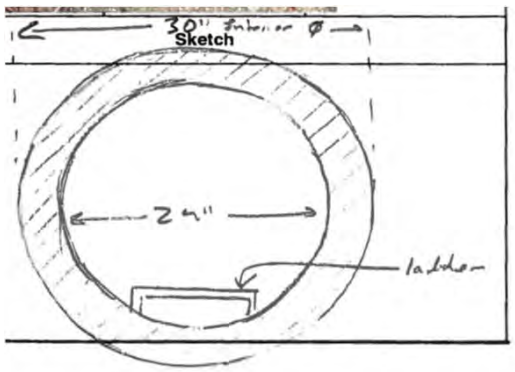
MANHOLE NO.:	MH-51	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:06
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	30" inside diameter w/ 24" collar
DTW:	17"
DTP:	None
DTB:	116"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes when sediment is disturbed with measuring rod
Pipe Sizes, in.:	No visible pipes
Pipe Location:	N/A

Sketch



MANHOLE INSPECTION LOG

AECOM

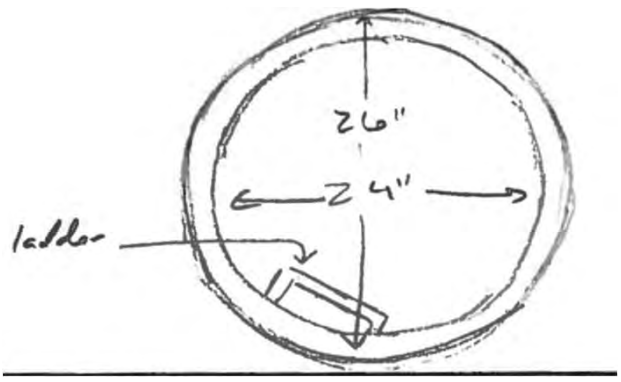
MANHOLE NO.:	MH-53	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:10
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" collar w/ 24" inner diameter. Brick lined
DTW:	21"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

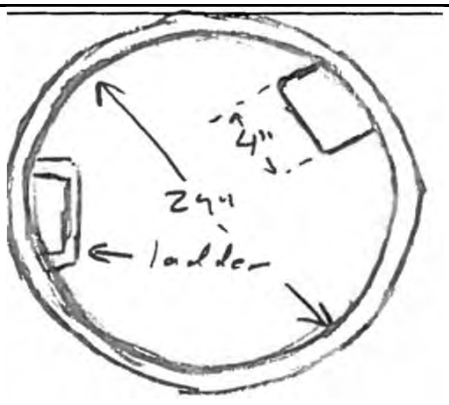
MANHOLE NO.:	MH-52-2	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:40
RIM ELEV.:	NA	TEMPERATURE:	54 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter collar. Brick lined
DTW:	22"
DTP:	N/A
DTB:	125"
Sediment Thickness:	1"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	4" Steel pipe w/ 24" invert
Pipe Location:	West Side

Sketch



MANHOLE INSPECTION LOG

AECOM

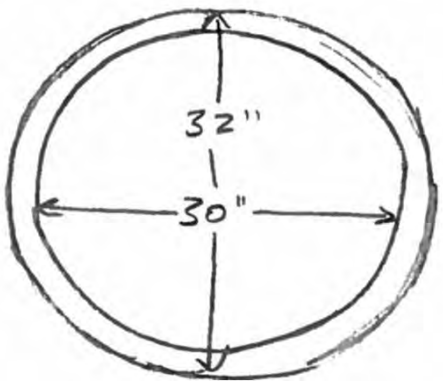
MANHOLE NO.:	MH-53-3	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:10
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	32" diameter
DTW:	20"
DTP:	N/A
DTB:	122.5"
Sediment Thickness:	N/A
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. Pipes not visible
Pipe Location:	UNK. Pipes not visible

Sketch



MANHOLE INSPECTION LOG

AECOM

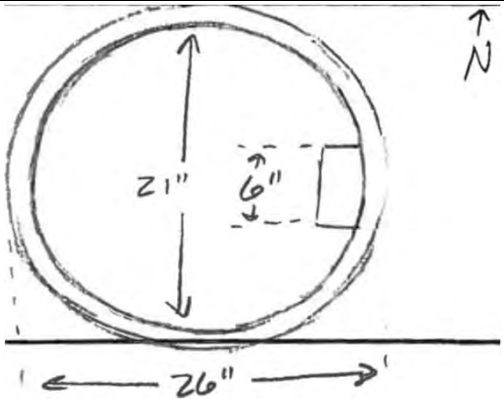
MANHOLE NO.:	MH-55	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:40
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" outer diameter w/ 21" inner diameter. Bolted down w/ 3/8" steel cover.
DTW:	26"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK.
Sheen on water Y/ N:	No
Pipe Sizes, in.:	6" steel pipe w/ unknow invert
Pipe Location:	East side

Sketch



MANHOLE INSPECTION LOG

AECOM

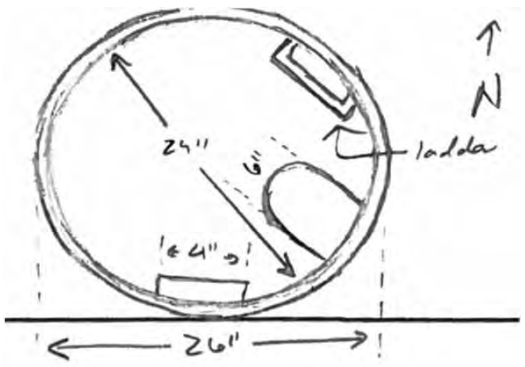
MANHOLE NO.:	MH-56	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:10
RIM ELEV.:	NA	TEMPERATURE:	65 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" collar w/ 24" inner diameter
DTW:	25"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	No
Pipe Sizes, in.:	4" steel pipe w/ 31" invert and 6" steel elbow
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

AECOM

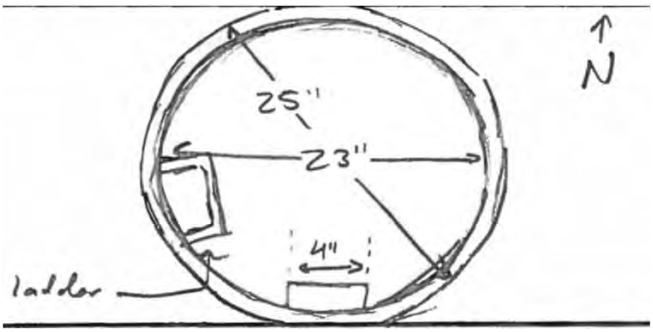
MANHOLE NO.:	MH-57	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:10
RIM ELEV.:	NA	TEMPERATURE:	60 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	25" collar w/ sock attached to lid. Brick lined.
DTW:	25"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod
Pipe Sizes, in.:	4" steel pipe w/ 26" invert
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

AECOM

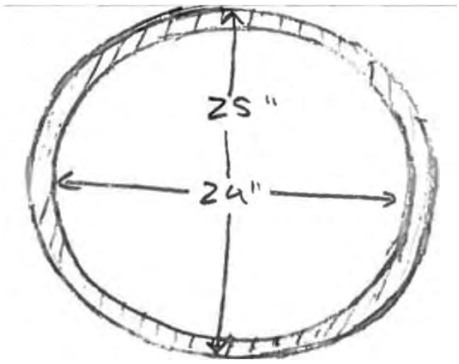
MANHOLE NO.:	MH-58	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	8:30
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Light rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" collar w/ 25" inner diameter. Brick lined w/ solid metal cover.
DTW:	29"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

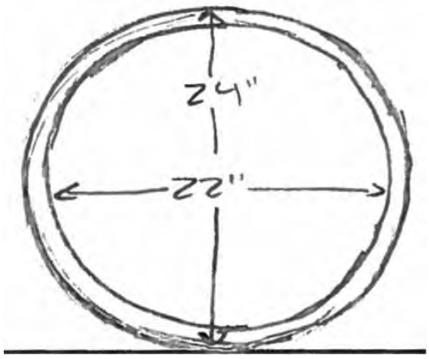
MANHOLE NO.:	MH-59	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:50
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter. Brick lined
DTW:	22"
DTP:	22". 3-4" of LNAPL
DTB:	124"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes. LNAPL
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

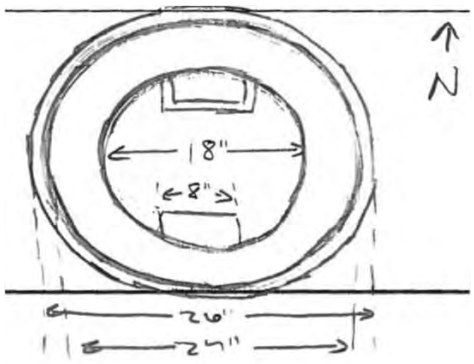
MANHOLE NO.:	MH-60	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:20
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" outer diameter. 18" inner diameter
DTW:	26"
DTP:	N/A
DTB:	108"
Sediment Thickness:	3"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod
Pipe Sizes, in.:	8" steel pipe
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

AECOM

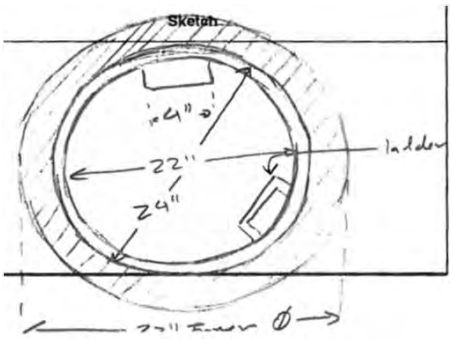
MANHOLE NO.:	MH-62	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:35
RIM ELEV.:	NA	TEMPERATURE:	59 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" collar w/ 32" inner diameter. Red brick lined
DTW:	24"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	No
Pipe Sizes, in.:	4" steel pipe
Pipe Location:	North Side

Sketch



MANHOLE INSPECTION LOG

AECOM

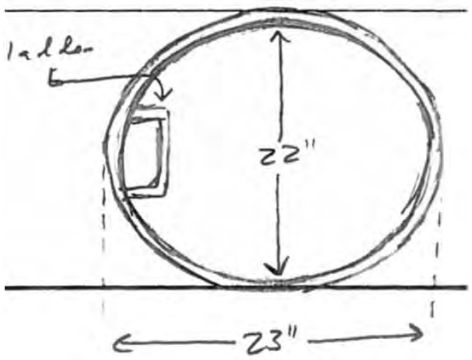
MANHOLE NO.:	MH-64	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:30
RIM ELEV.:	NA	TEMPERATURE:	65 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	23" collar w/ 22" inside diameter. Brick lined. Broken lid.
DTW:	14.5"
DTP:	N/A
DTB:	108"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes. Oily substance on water's surface
Pipe Sizes, in.:	No visible pipes
Pipe Location:	UNK

Sketch



MANHOLE INSPECTION LOG

AECOM

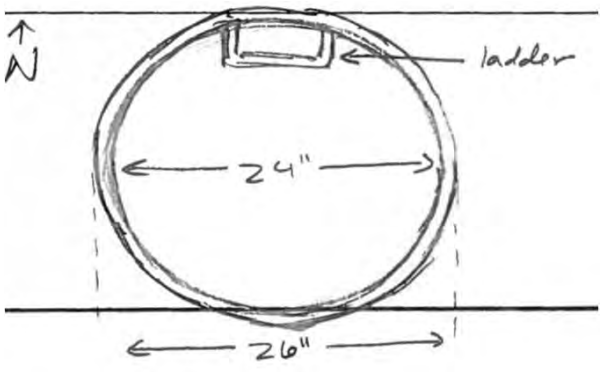
MANHOLE NO.:	MH-66	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:18
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" diameter
DTW:	28"
DTP:	N/A
DTB:	Greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	Yes when sediment is disturbed w/ measuring rod
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	MH-68	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:20
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:		Sketch
Dimensions:	22" Diameter w/ silver steel cover sealed w/ screws	
DTW:	UNK	
DTP:	UNK	
DTB:	UNK	
Sediment Thickness:	UNK	
Sheen on water Y/ N:	UNK	
Pipe Sizes, in.:	UNK	
Pipe Location:	UNK	

MANHOLE INSPECTION LOG

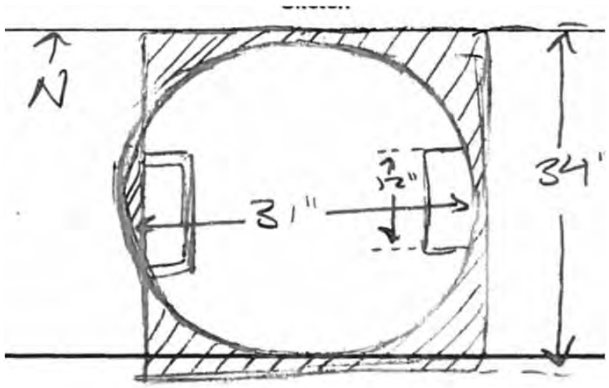
AECOM

MANHOLE NO.:	MH-78	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:34
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy,
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	31" diameter that leads to a 34" square manway.
DTW:	33"
DTP:	N/A
DTB:	134"
Sediment Thickness:	2"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	12" steel sealed pipe
Pipe Location:	East side

Sketch



MANHOLE INSPECTION LOG

AECOM

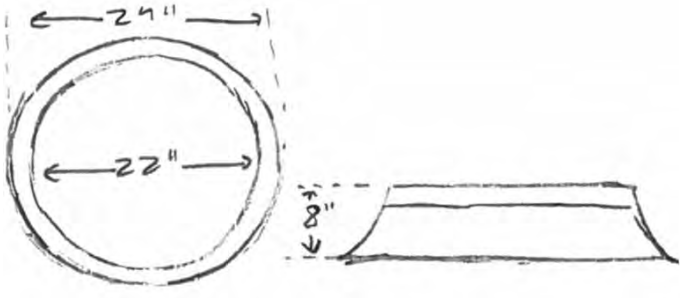
MANHOLE NO.:	MH-103	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:40
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter w/ 8" raised cap and a sock underneath lid.
DTW:	8"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

AECOM

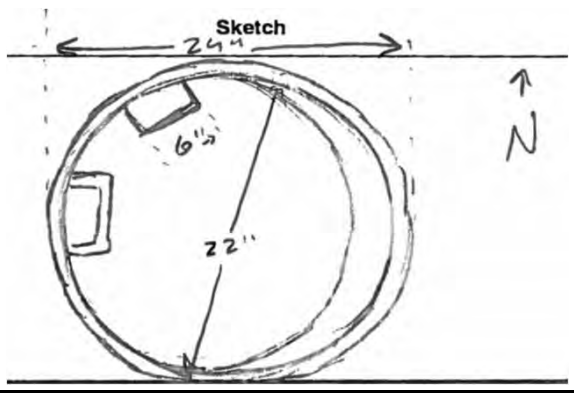
MANHOLE NO.:	MH-104	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:50
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter.
DTW:	60"
DTP:	N/A
DTB:	Total depth greater than 11' 2"
Sediment Thickness:	UNK
Sheen on water Y/ N:	No
Pipe Sizes, in.:	6" steel pipe
Pipe Location:	North, North West side

Sketch



MANHOLE INSPECTION LOG

AECOM

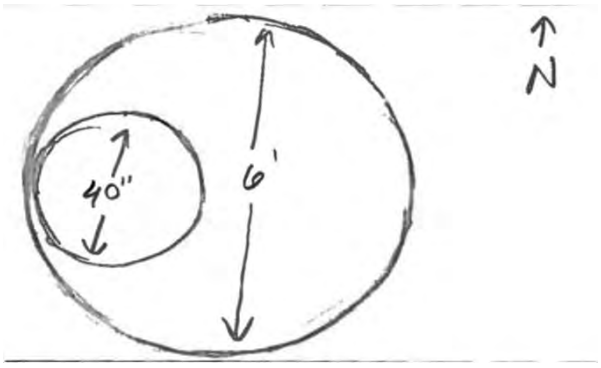
MANHOLE NO.:	MH-105	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:51
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	40" diameter cover that opens to 6' diameter manway.
DTW:	UNK. Cover sealed in place
DTP:	UNK
DTB:	UNK
Sediment Thickness:	UNK
Sheen on water Y/ N:	UNK
Pipe Sizes, in.:	UNK
Pipe Location:	UNK

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	MH-106	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:59
RIM ELEV.:	NA	TEMPERATURE:	48 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:		Sketch
Dimensions:	24" diameter. Filled with vegetation and fabric.	
DTW:	12"	
DTP:	N/A	
DTB:	45"	
Sediment Thickness:	3-4"	
Sheen on water Y/ N:	UNK	
Pipe Sizes, in.:	UNK. Couldn't remove lid	
Pipe Location:	UNK. Couldn't remove lid	

MANHOLE INSPECTION LOG

AECOM

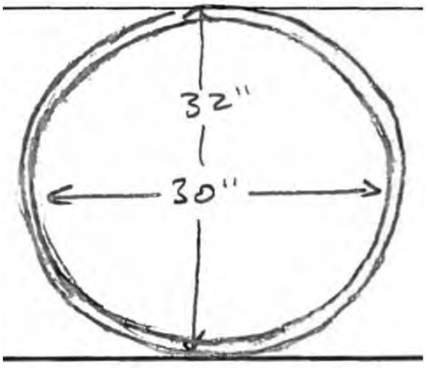
MANHOLE NO.:	MH-107	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:45
RIM ELEV.:	NA	TEMPERATURE:	46 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/27/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	32" diameter.
DTW:	14"
DTP:	N/A
DTB:	98"
Sediment Thickness:	4-6"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed w/ measuring rod
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

AECOM

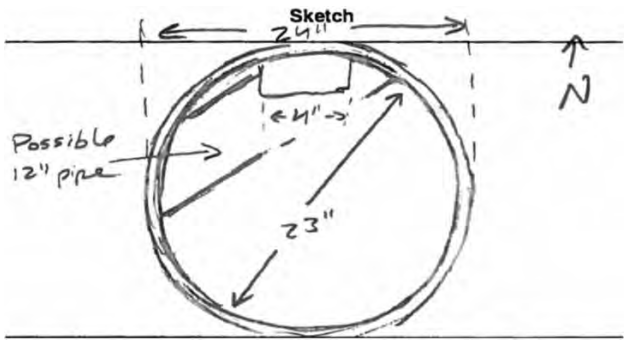
MANHOLE NO.:	MH-108	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:20
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" collar w/ 23" inner diameter. Double rimmed with solid steel cover.
DTW:	23"
DTP:	N/A
DTB:	78"
Sediment Thickness:	14.5
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed by measuring rod
Pipe Sizes, in.:	4" steel w/ 28" invert and possible 12" pipe.
Pipe Location:	4" pipe on North side and 12" pipe runs from the North West side to the North side.

Sketch



MANHOLE INSPECTION LOG

AECOM

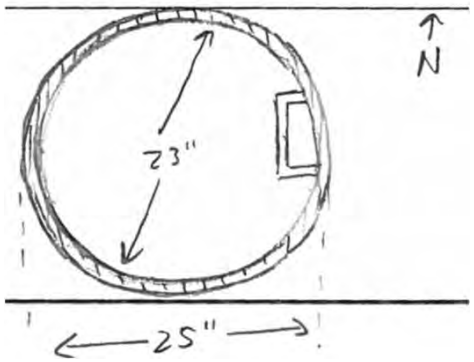
MANHOLE NO.:	MH-110	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:00
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft.	To MH#_____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	23" collar w/ 25" inner diameter. Brick lined. 2.5 x 2.5 ft square steel cover plate.
DTW:	18.5
DTP:	N/A
DTB:	102.5"
Sediment Thickness:	2.5"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

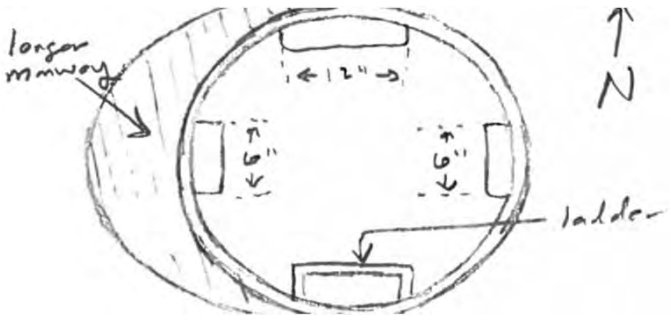
MANHOLE NO.:	MH-112	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:25
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	25" collar. West side opens to a larger manway after 1 ft.
DTW:	24"
DTP:	N/A
DTB:	86.5"
Sediment Thickness:	1"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	4" steel pipe w/ 28" invert. 12" steel pipe w/ 53" invert. 6" steel pipe w/ 48" invert.
Pipe Location:	4" pipe on West side, 12" pipe on North side and 6" pipe on East side.

Sketch



MANHOLE INSPECTION LOG

AECOM

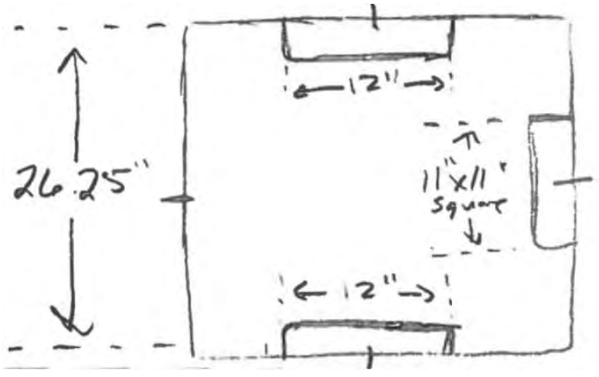
MANHOLE NO.:	MH-113	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	9:20
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26.25" square
DTW:	21"
DTP:	N/A
DTB:	36"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes w/ oily smell
Pipe Sizes, in.:	2 x 12" steel pipe w/ 30" invert. Sealed off 11" x 11"square pipe 5.5" deep.
Pipe Location:	12" pipes on North and South side and 11" x 11" square pipe on East side.

Sketch



MANHOLE INSPECTION LOG

AECOM

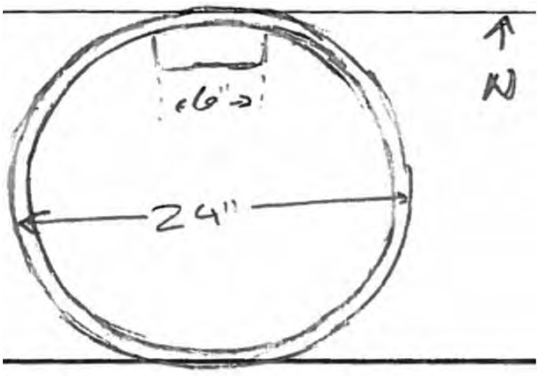
MANHOLE NO.:	MH-117	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:20
RIM ELEV.:	NA	TEMPERATURE:	65 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" collar w/ 24" inner diameter.
DTW:	N/A. Dry
DTP:	N/A. Dry
DTB:	27"
Sediment Thickness:	3"
Sheen on water Y/ N:	N/A. Dry
Pipe Sizes, in.:	6" steel w/ 18" invert
Pipe Location:	North side

Sketch

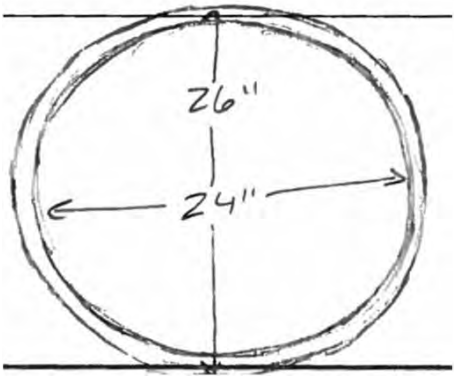


MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	MH-119	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:15
RIM ELEV.:	NA	TEMPERATURE:	65 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:		**Sketch**
Dimensions:	2 covers. 24" collar w/ 26" inner diameter. 22" Inner collar diameter. Brick lined.	
DTW:	18"	
DTP:	18" w/ 8" of LNAPL	
DTB:	87"	
Sediment Thickness:	UNK	
Sheen on water Y/ N:	Yes (LNAPL)	
Pipe Sizes, in.:	UNK. No visible pipes	
Pipe Location:	UNK. No visible pipes	

MANHOLE INSPECTION LOG

AECOM

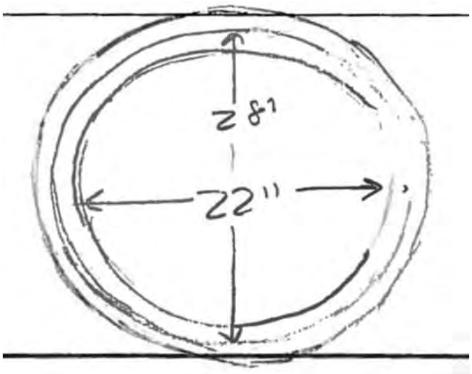
MANHOLE NO.:	MH-120	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:25
RIM ELEV.:	NA	TEMPERATURE:	65 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	28" collar w/ 22" inner diameter.
DTW:	18"
DTP:	18" w/ 6" of LNAPL
DTB:	64"
Sediment Thickness:	UNK
Sheen on water Y/ N:	Yes (LNAPL)
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

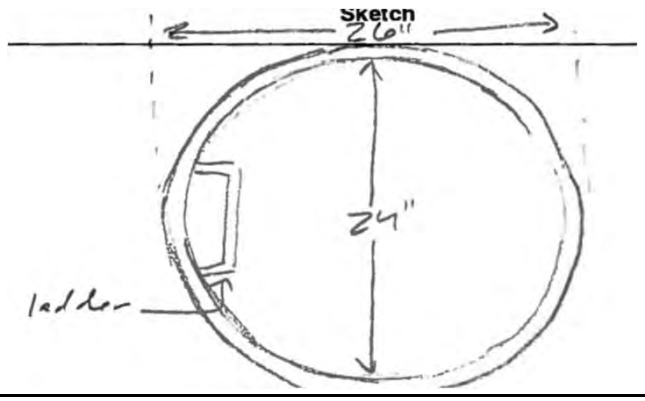
AECOM

MANHOLE NO.:	MH-121	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	10:50
RIM ELEV.:	NA	TEMPERATURE:	65 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	24" collar w/ 26" inner diameter.
DTW:	18"
DTP:	18" w/3" LNAPL
DTB:	77"
Sediment Thickness:	UNK
Sheen on water Y/ N:	Yes (LNAPL)
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

AECOM

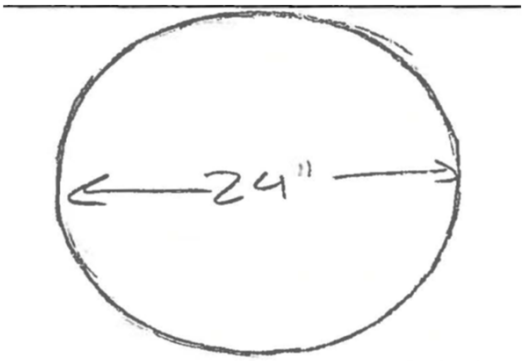
MANHOLE NO.:	MH-122	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:00
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" collar w/ 24" inner diameter.
DTW:	16"
DTP:	N/A
DTB:	77"
Sediment Thickness:	1"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

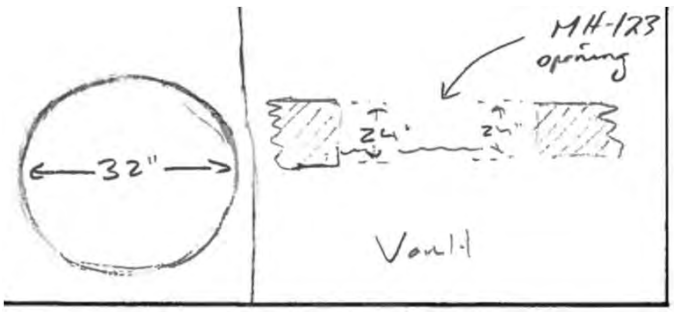
MANHOLE NO.:	MH-123	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:10
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES: From MH#_____ Distance _____ ft.	INCOMING LINES: From MH#_____ Distance _____ ft	INCOMING LINES: From MH# _____ Distance _____ ft.	OUTGOING LINES: To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	32" diameter collar. Concrete ends at 24", opens up to a vault.
DTW:	17"
DTP:	N/A
DTB:	103"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed with measuring rod
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

AECOM

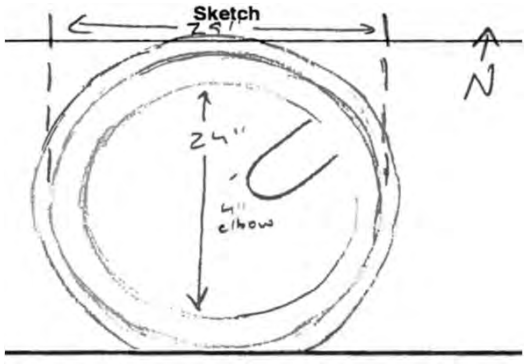
MANHOLE NO.:	MH-125	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:45
RIM ELEV.:	NA	TEMPERATURE:	50 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	29" diameter collar w/ 24"
DTW:	16"
DTP:	N/A
DTB:	62.5"
Sediment Thickness:	17"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	4" elbow pipe
Pipe Location:	North East side

Sketch



MANHOLE INSPECTION LOG

AECOM

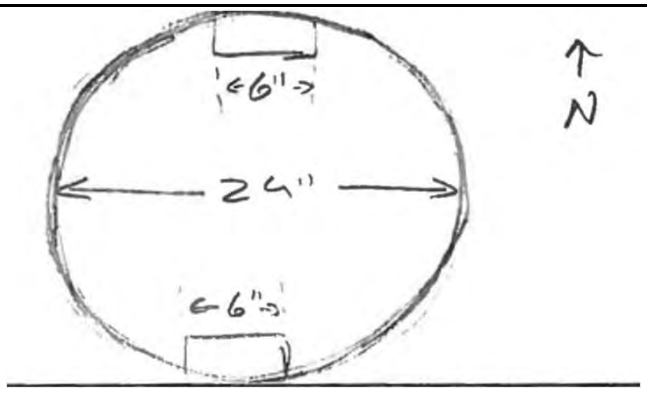
MANHOLE NO.:	MH-126	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:34
RIM ELEV.:	NA	TEMPERATURE:	55 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	24" diameter collar w/ 24" inner diameter. Brick lined.
DTW:	N/A. Dry
DTP:	N/A. Dry
DTB:	26"
Sediment Thickness:	4"
Sheen on water Y/ N:	N/A. Dry
Pipe Sizes, in.:	2 x 6" steel pipes w/ 21" inverts
Pipe Location:	North and South side.

Sketch



MANHOLE INSPECTION LOG

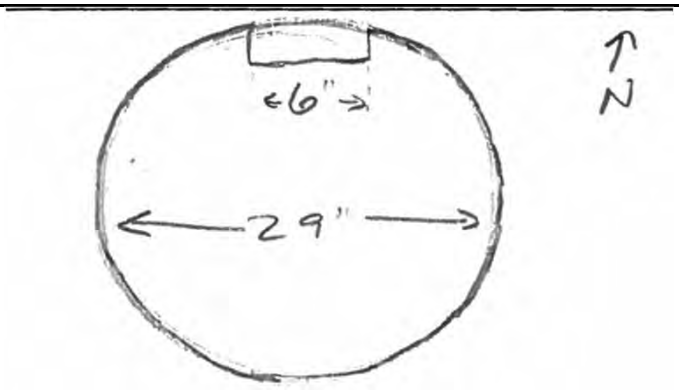
AECOM

MANHOLE NO.:	MH-128	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:45
RIM ELEV.:	NA	TEMPERATURE:	55 Degrees F.
INVERT:	NA	WEATHER:	Rain
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:	
Dimensions:	29" diameter collar w/ 29" inner diameter. Second collar w/ 1.75" collar and 25.5" inner diameter.
DTW:	15"
DTP:	N/A
DTB:	65"
Sediment Thickness:	18"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	6" steel pipe w/ 39.5" invert
Pipe Location:	North side.

Sketch



MANHOLE INSPECTION LOG

AECOM

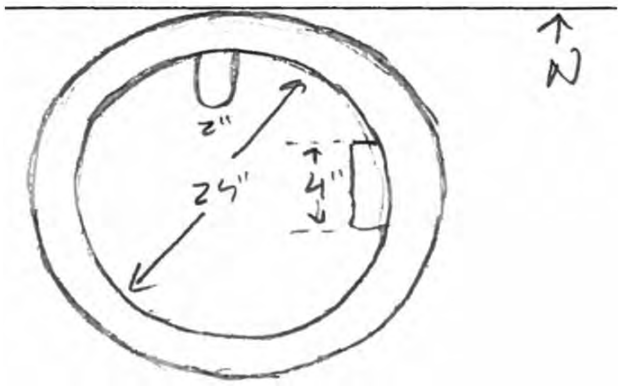
MANHOLE NO.:	MH-129	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	15:10
RIM ELEV.:	NA	TEMPERATURE:	55 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	29" diameter collar w/ 24" inner diameter.
DTW:	22"
DTP:	N/A
DTB:	62"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes when sediment is disturbed by measuring rod
Pipe Sizes, in.:	2" steel pipe with 16 - 18" elbow below surface. 4" steel pipe w/ 24" invert.
Pipe Location:	2" pipe on North side and 4" pipe on East side.

Sketch



MANHOLE INSPECTION LOG

AECOM

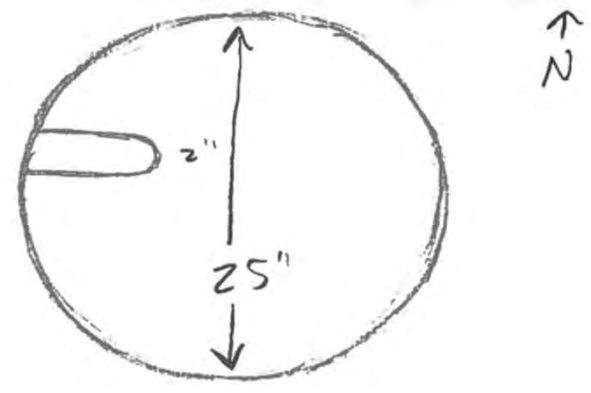
MANHOLE NO.:	MH-132	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:15
RIM ELEV.:	NA	TEMPERATURE:	63 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	25" diameter
DTW:	16"
DTP:	N/A
DTB:	63"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes when sediment is disturbed by measuring rod
Pipe Sizes, in.:	2" steel pipe w/ elbow
Pipe Location:	West side

Sketch



MANHOLE INSPECTION LOG

AECOM

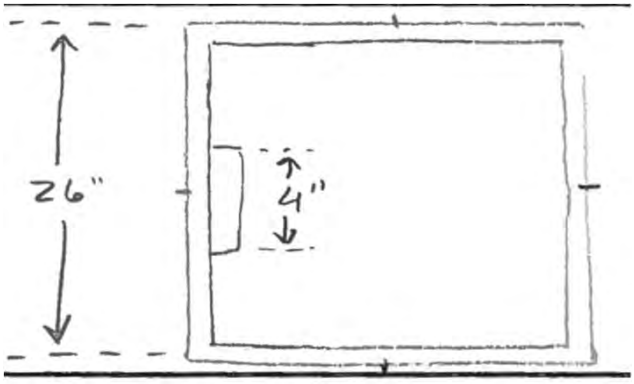
MANHOLE NO.:	MH-134	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	13:05
RIM ELEV.:	NA	TEMPERATURE:	63 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	26" square
DTW:	13"
DTP:	N/A
DTB:	24"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes w/ bubbles when sediment is disturbed by measuring rod
Pipe Sizes, in.:	N/A
Pipe Location:	N/A

Sketch



MANHOLE INSPECTION LOG

AECOM

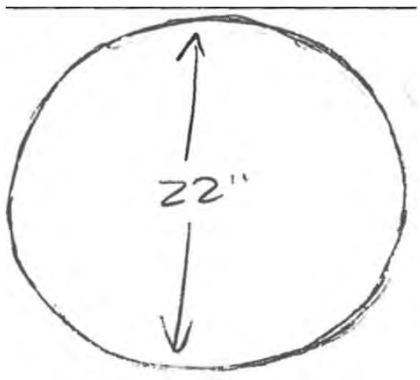
MANHOLE NO.:	MH-135	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:25
RIM ELEV.:	NA	TEMPERATURE:	63 Degrees F.
INVERT:	NA	WEATHER:	Cloudy
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	22" diameter
DTW:	15.5"
DTP:	N/A
DTB:	78"
Sediment Thickness:	11"
Sheen on water Y/ N:	Yes. Reddish orange oily sheen.
Pipe Sizes, in.:	UNK. No visible pipes
Pipe Location:	UNK. No visible pipes

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	MH-136	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:40
RIM ELEV.:	NA	TEMPERATURE:	67 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:		**Sketch**
Dimensions:	25" diameter collar. No cover. Filled in w/ concrete debris and vegetation to near surface.	
DTW:	N/A. Dry	
DTP:	N/A	
DTB:	17"	
Sediment Thickness:	N/A	
Sheen on water Y/ N:	N/A. Dry	
Pipe Sizes, in.:	UNK. No visible pipes	
Pipe Location:	UNK. No visible pipes	

MANHOLE INSPECTION LOG

AECOM

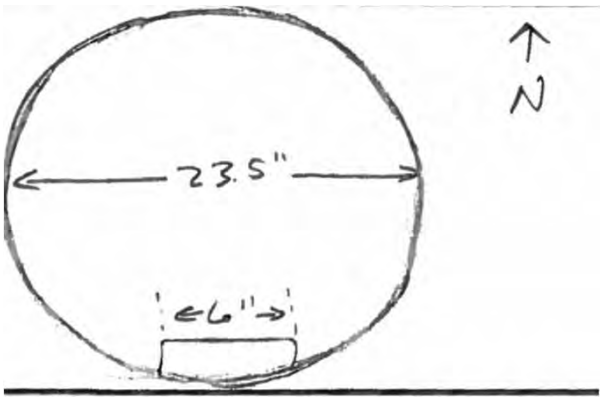
MANHOLE NO.:	MH-137	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	14:50
RIM ELEV.:	NA	TEMPERATURE:	68 Degrees F.
INVERT:	NA	WEATHER:	Sunny
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/23/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	23.5" diameter collar. Broken cover w/ steel lid bolted over place.
DTW:	N/A. Dry
DTP:	N/A. Dry
DTB:	21"
Sediment Thickness:	7"
Sheen on water Y/ N:	N/A. Dry
Pipe Sizes, in.:	6" steel pipe w/ 14" invert
Pipe Location:	South side

Sketch



MANHOLE INSPECTION LOG

AECOM

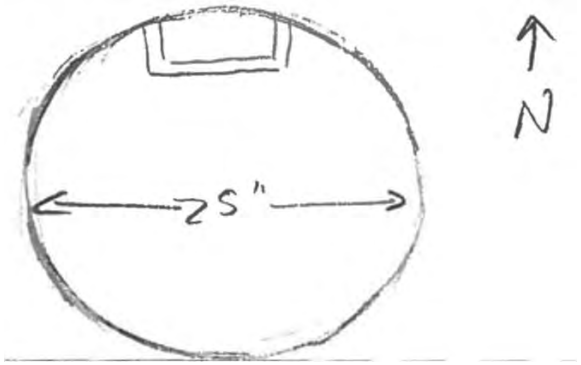
MANHOLE NO.:	MH-200	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	11:40
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				



Field Observations and Measurements:	
Dimensions:	25" outer diameter
DTW:	20"
DTP:	N/A
DTB:	88"
Sediment Thickness:	2"
Sheen on water Y/ N:	Yes when sediment is disturbed by measuring rod
Pipe Sizes, in.:	UNK. No visible pipes.
Pipe Location:	UNK. No visible pipes.

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	MH-1608 (Vault)	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:50
RIM ELEV.:	NA	TEMPERATURE:	61 Degrees F.
INVERT:	NA	WEATHER:	Cloudy, slight breeze
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/21/2020		

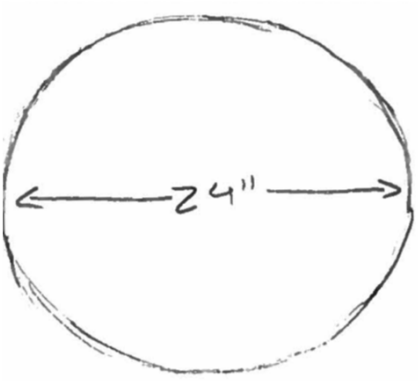
	INCOMING LINES			OUTGOING LINES
PIPE DATA	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				





Field Observations and Measurements:	
Dimensions:	24" outer diameter.
DTW:	15"
DTP:	N/A
DTB:	66"
Sediment Thickness:	1"
Sheen on water Y/ N:	No
Pipe Sizes, in.:	Multiple subsurface pipes/ wires.
Pipe Location:	N/A

Sketch



MANHOLE INSPECTION LOG

AECOM

MANHOLE NO.:	MH-1629	INSPECTOR:	S. Connelly/ T. Urban
COVER LABEL:	NA	TIME:	12:35
RIM ELEV.:	NA	TEMPERATURE:	52 Degrees F.
INVERT:	NA	WEATHER:	Overcast
LOCATION:	Tonawanda Forge. Tonawanda, NY		
DATE:	10/22/2020		

PIPE DATA	INCOMING LINES			OUTGOING LINES
	From MH#_____ Distance _____ ft.	From MH#_____ Distance _____ ft	From MH# _____ Distance _____ ft.	To MH# _____ Distance
Pipe Sizes, in.				
Type of Pipe				
Depth from MH Rim to Crown				
Depth of Flow, in.				
Temperature of Flow °F				
Velocity m/sec				
Root Growth of Pipe				
Type of Deposition				
Depth of Deposition, in.				
Recommended Cleaning Method				
Visible Infiltration/Inflow Sources in Pipe				
Structural Conditions of Pipe				
Special Problems and Conditions				

Field Observations and Measurements:		Sketch
Dimensions:	Sealed w/ concrete	
DTW:	N/A	
DTP:	N/A	
DTB:	N/A	
Sediment Thickness:	N/A	
Sheen on water Y/ N:	N/A	
Pipe Sizes, in.:	N/A	
Pipe Location:	N/A	

Tonawanda Forge Sewer and Sediment Samples

Dates: 12/21 – 12/30/2020

DI-8 (DI-8-2020): Completed on 12/21/2020.

Sample ID: DI-8-2020.

Analyzed for: TCL/ TAL parameters

Sediment Description: Black silty sediment with decaying organics. Strong petroleum odor w/ sheen on water.

Water Description: Clear water with sheen on surface.

MH-107 (MH-107-2020): Completed on 12/21/2020

Sample ID: MH-107-2020.

Analyzed for: TCL/ TAL parameters

Sediment Description: Black silty sediment with decaying organics. Strong petroleum odor w/ sheen on water.

Water Description: Dark black water with sheen on surface.

MH-60 (MH-60-2020): Completed on 12/22/2020

Sample ID: MH-60-2020 w/ FD-122220 for all parameters

Analyzed for: TCL/ TAL, PTOW and TCLP parameters

Sediment Description: Black sandy silt sediment. Strong petroleum odor w/ sheen on water.

Water Description: Black water with sheen on surface.

MH-113 (MH-113-2020): Completed on 12/22/2020

Sample ID: MH-113-2020 w/ MS/MSD for TCL/ TAL parameters only.

Analyzed for: TCL/ TAL parameters

Sediment Description: Light brown sand layer above black silty sand with decaying organics with strong petroleum odor.

Water Description: Grey water with sheen on surface with bubbles when sediment is disturbed.

MH-132 (MH-132-2020): Completed on 12/22/2020

Sample ID: MH-132-2020

Analyzed for: TCL/ TAL, PTOW and TCLP parameters

Sediment Description: Dark grey to black silt with trace clay and slight petroleum odor.

Water Description: Grey water with sheen on surface.

MH-108 (MH-108-2020): Completed on 12/23/2020

Sample ID: MH-108-2020

Analyzed for: TCL/ TAL, PTOW and TCLP parameters

Sediment Description: Black silty sediment with strong petroleum odor with sheen.

Water Description: Clear water with sheen on surface.

MH-58 (MH-58-2020): Completed on 12/23/2020

Sample ID: MH-58-2020

Analyzed for: TCL/ TAL, PTOW and TCLP parameters

Sediment Description: Black silty sand with little gravel and decaying organics with slight petroleum odor with sheen.

Water Description: Clear water with sheen on surface.

MH-59 (MH-59-2020): Completed on 12/23/2020

Sample ID: MH-59-2020

Analyzed for: TCL/ TAL, PTOW and TCLP parameters

Sediment Description: Very thick, dark black silty sediment with decaying organics and almost tar like texture. Very strong petroleum odor.

Water Description: LNAPL on surface of water.

MH-103 Vault (MH-103V-2020): Completed on 12/28/2020

Sample ID: MH-103V-2020

Analyzed for: TCL/ TAL, PTOW and TCLP parameters

Sediment Description: Collected on 12/30/20 with PONAR Dredge. Black silty sand sediment with little gravel and decaying organics. Strong petroleum odor.

Water Description: Clear water with sheen and bubbles.

Boiler Room Containment Vault (BC-01-2020): Completed on 12/28/2020

Sample ID: MH-103V-2020

Analyzed for: TCL/ TAL parameters

Sediment Description: Black silty sand sediment with decaying organics.

Water Description: Clear water.

MH-53-2 (MH-53-2-2020): Completed on 12/28/2020

Sample ID: MH-53-2-2020

Analyzed for: TCL/ TAL and PTOW parameters for water and only TCL PCB's for sediment due to limited volume.

Sediment Description: Black silty sand sediment with little gravel.

Water Description: Clear water.

MH-64 (MH-64-2020): Completed on 12/29/2020

Sample ID: MH-64-2020

Analyzed for: TCL/ TAL, PTOW and TCLP parameters along with 2, 3, 7, 8 – TCDD EPA 613

Sediment Description: Black silty sand sediment with decaying organics with strong petroleum odor.

Water Description: Light grey water with sheen on surface.

Railroad Vault (RRV-01-2020): Completed on 12/29/2020

Sample ID: RRV-01-2020. Replacing MH-310.

Analyzed for: TCL/ TAL, and TCLP parameters along with 2, 3, 7, 8 – TCDD EPA 613

Sediment Description: Dark brown, silty sand sediment with little gravel. No odor or sheen.

Water Description: Clear.

MH-85 (MH-85-2020): Completed on 12/29/2020

Sample ID: MH-85-2020. Replacing MH-86

Analyzed for: TCL/ TAL and TCLP parameters along with 2, 3, 7, 8 – TCDD EPA 613

Sediment Description: Black silty sand sediment with little gravel and slight petroleum odor.

Water Description: Clear water with slight sheen.

MH-305 (MH-305-2020): Completed on 12/30/2020

Sample ID: MH-305-2020.

Analyzed for: TCL/ TAL

Sediment Description: Black silty sediment with decaying organics and organic odor. No petroleum odor

Water Description: Clear water with no sheen or odor.

Front 40 East Vault (F40EV-2020): Completed on 12/30/2020

Sample ID: F40EV-2020. Replacing MH-83B

Analyzed for: TCL/ TAL, PTOW and TCLP parameters.

Sediment Description: Black silty semi solid sediment with slight petroleum odor.

Water Description: Clear water with slight sheen.

MH-119 (MH-119-2020): Completed on 12/30/2020

Sample ID: MH-119

Analyzed for: LNAPL parameters.

LNAPL Description: 0.0-1.0”- Amber colored oil. 1.0-8.0”- Dark blue to black, lumpy tar/ oil with very strong petroleum odor.

MH-121 (MH-121-2020): Completed on 12/30/2020

Sample ID: MH-121

Analyzed for: LNAPL parameters.

LNAPL Description: 0.0-1.0”- Amber colored oil. 1.0-3.0”- Dark blue to black, lumpy tar/ oil with very strong petroleum odor.

APPENDIX F

SURFACE SOIL AND BORING LOGS

AECOM

TEST BORING LOG

BORING NO. : SB-01-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080564.2601 **EASTING:** 1060839.7732

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 599.13 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				

* POCKET PENETROMETER READING

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		17.5	Gray		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
									0.0	
									0.0	
					Red Brown		SILT, some Clay, trace fine Gravel	ML	0.0	Gray Desiccation Cracks
-5		2		100					0.0	
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8.8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0.8-1.3, 1.8-2.3, 3.8-4.8 & 5.8-6.8 ft bgs for PCB analysis.
Soil sample from 5.8-6.8 ft bgs was also analysed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-02-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080593.9838 **EASTING:** 1060865.6922

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 600.23 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		50	Brown		FILL: coarse to fine sand and gravel, and reworked silt		0.0	Moist, No Odor
									0.0	
-5		2		25					0.0	
									0.0	
									0.0	
									0.0	
		3		57					0.0	Wet
-10									0.0	
									0.0	
							Refusal at 11.5 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5, 3-4 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-03-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080491.8037 **EASTING:** 1060929.5006

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 601.52 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		57.5	Gray/ Black		CONCRETE FILL: coarse to fine sand and medium to fine gravel		0.0 0.0 0.0	Dry, No Odor
		2		60					0.0	
-5							Refusal at 4.5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0.8-1.3, 2-3 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-03A-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080481.028 **EASTING:** 1060919.345

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** NA

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		50	Gray		FILL: coarse to fine sand and gravel and reworked silt		0.0 0.0 0.0 0.0	Moist, No Odor Wet
-5		2		100	Red Brown		Clayey SILT, trace fine Gravel	ML	0.0 0.0 0.0 0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5, 2-3, 4-5 & 6-7 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-04-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080531.5829 **EASTING:** 1060955.4523

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.55 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		72.5	Black/ Gray		FILL: coarse to fine sand and medium to fine gravel (possible slag)		0.0	Moist to Wet, No Odor
									0.0	
									0.0	
-5		2		52.5					0.0	Slight Odor
									0.0	
		3		80	Gray		no gravel		0.0	No Odor
-10									0.0	
							SILT		0.0	
					Red Brown		End of Boring at 12.7 ft bgs.	ML		
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0.8-1.3, 1.8-2.3, 2.8-3.8, 4.8-5.8 & 6.8-7.8 ft bgs for PCB analysis.
Soil sample from 4.8-5.8 ft bgs was also analysed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-05-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080561.2524 **EASTING:** 1061008.413

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 601.22 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		87.5	Gray Brown		FILL: coarse to fine sand and gravel, some silt		0.0	Moist, No Odor
									0.0	
									0.0	
									0.0	
-5		2		100	Red Brown		SILT, some-trace Clay and fine Gravel	ML	0.0	Wet, No Odor
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5, 2-3, 4-5 & 6-7 ft bgs for PCB analysis.
Soil sample from 2-3 ft bgs was also analysed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-06-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080504.1855 **EASTING:** 1060993.0437

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 600.85 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		45	Gray		FILL: coarse to fine sand and gravel and reworked silt		0.0 0.0 0.0 0.0	Dry, No Odor
-5		2		100	Red Brown		SILT, some-trace Clay	ML	0.0 0.0 0.0 0.0	Moist, No Odor, Gray Desiccation Cracks
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5, 2-3, 4-5 & 6-7 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-07-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080912.1959 **EASTING:** 1061005.7654

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

GROUND ELEVATION:	601.27 ft amsl
DATE STARTED:	11/5/2020
DATE FINISHED:	11/5/2020
DRILLER:	K. Busch
GEOLOGIST:	K. McGovern
REVIEWED BY:	M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		15	Black		FILL: coarse to fine sand and medium to fine gravel		0.0	Wet, No Odor
-5							Refusal at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil sample from 0-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-08-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080922.0599 **EASTING:** 1061019.6077

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.35 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		42.8	Brown/ Gray		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
-5							Refusal at 3.5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 2-3 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-09-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080950.1418 **EASTING:** 1061028.1572

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.17 ft amsl

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		26.4	Brown		CONCRETE FILL: coarse to fine sand and medium to fine gravel		0.0	Wet, No Odor
-5							Refusal at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil sample from 0.6-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-10-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080990.0558 **EASTING:** 1061080.0282

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.35 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		100	Brown / Red Brown		FILL: coarse to fine sand and medium to fine gravel	ML	0.0	Moist, No Odor Gray Desiccation Cracks
									0.0	
							Clayey SILT		0.0	
-5									0.0	
							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5, 2-2.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-11-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081022.7517 **EASTING:** 1061108.1213

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.23 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		25	Dk Stained Red Brown		FILL: medium to fine sand and gravel	ML	0.0	Wet, Odor
							SILT, some Clay		0.0	Gray Desiccation Cracks
-5							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil sample from 1-5 ft bgs for PCB & VOC analyses.

AECOM

TEST BORING LOG

BORING NO. : SB-12-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081034.1449 **EASTING:** 1061353.1368

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.35 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		2.5	Gray		FILL: coarse to fine gravel			Wet, No Odor
-5		2		75	Red Brown		SILT, some-trace Clay and fine Gravel	ML	0.0 0.0 0.0	Moist
		3		100					0.0	
-10							Refusal at 9.5 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 8.5-9.5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-13-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081086.1606 **EASTING:** 1061396.4251

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.15 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		7.5	Brown		FILL: coarse to fine sand and medium to fine gravel		0.0	Wet, No Odor
									0.0	
									0.0	
									0.0	
-5		2		75	Black				0.0	Slight Odor
					Red Brown		SILT, some-trace Clay and fine Gravel	ML	0.0	No Odor
									0.0	
									0.0	
-10		3		75					0.0	
							Grading to Clayey SILT		0.0	
									0.0	
							End of Boring at 12 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 8-10 & 10-12 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-14-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081209.9039 **EASTING:** 1061504.2157

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.19 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		22.5	Gray		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
-5		2		30	Red Brown		Clayey SILT	ML	0.0 0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-2 & 4-5 ft bgs for PCB analysis.
Soil sample from 4-5 ft bgs was also analysed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-15-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD	**SHEET:** 1 **OF** 1
CLIENT: New York State Department of Environmental Conservation	**JOB NO. :** 60633654
BORING CONTRACTOR: Nothnagle Drilling	**NORTHING:** 1081204.7786 **EASTING:** 1061503.2469
GROUNDWATER: 1 ft bgs	**GROUND ELEVATION:** 601.47 ft amsl
DATE STARTED:	11/4/2020
DATE FINISHED:	11/4/2020
DRILLER:	K. Busch
GEOLOGIST:	K. McGovern
REVIEWED BY:	M. Gutmann

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		23.8	Gray		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
-5		2		50	Red Brown		Clayey SILT, some fine Gravel	ML	0.0 0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-2 & 4-5 ft bgs for PCB analysis.
Soil sample from 4-5 ft bgs was also analysed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-16-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081401.5527 **EASTING:** 1061477.2494

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 600.98 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
		1		50	Red Brown		CONCRETE			
							Clayey SILT	ML	0.0	Wet, Odor
-5		2		100			SILT, some Clay		0.0	Moist, Gray Desiccation Cracks
									0.0	
									0.0	
-10							End of Boring at 8.5 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil sample from 2-4, 4-5 & 6-8 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-17-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081424.4227 **EASTING:** 1061501.3487

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

GROUND ELEVATION: 600.88 ft amsl

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		75	Gray		FILL: silt, coarse to fine gravel and sand		0.0	Wet, No Odor
									0.0	
					Red Brown		SILT, some Clay	ML	0.0	
									0.0	
-5		2		87.5					0.0	Wet-Moist, Gray Desiccation Cracks
									0.0	
									0.0	
									0.0	
-10							End of Boring at 9 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil sample from 1-5, 2-2.5, 4-5 & 6-8 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-18-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081484.9519 **EASTING:** 1061563.4841

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.12 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		32.4	Dark Stained		FILL: coarse to fine sand and gravel		0.0 0.0	Wet, No Odor
-5							Refusal at 3.7 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil sample from 0-3.7 ft bgs for PCB & VOC analyses.

AECOM

TEST BORING LOG

BORING NO. : SB-19-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081395.9242 **EASTING:** 1061549.2174

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.31 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		87.5	Gray Red Brown		FILL: coarse to fine sand and medium to fine gravel	ML	0.0	Wet, No Odor Gray Desiccation Cracks
									0.0	
							SILT, some-trace Clay		0.0	
-5							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5, 2-2.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-20-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081412.8584 **EASTING:** 1061567.6819

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.11 ft amsl

				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Macrocore		
				DIA.	2"		
				WT.			
				FALL			
				* POCKET PENETROMETER READING			

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		80	Brown		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor, Black Staining Gray Desiccation Cracks
					Red Brown		SILT, some-trace Clay	ML	0.0	
-5									0.0	
							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5, 2-2.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-21-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081382.2197 **EASTING:** 1061563.8945

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.30 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		62.5	Gray / Red Brown		FILL: coarse to fine sand and medium to fine gravel	ML/ CL	0.0	Wet, No Odor
									0.0	
							SILT, some Clay grading to Silty CLAY		0.0	
-5									0.0	
							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5, 2-2.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-22-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081398.9287 **EASTING:** 1061578.7234

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.16 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		77.5	Gray		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
									0.0	
					Red Brown		SILT, some-trace Clay	ML	0.0	Gray Desiccation Cracks
-5									0.0	
							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5, 2-2.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-23-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081318.6813 **EASTING:** 1061583.103

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 601.32 ft amsl

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		87.5	Stained		FILL: coarse to fine sand and medium to fine gravel		0.0	Wet, Odor Present
									0.0	
					Red Brown		SILT, some Clay	ML	0.0	No Odor, Gray Desiccation Cracks
-5							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5, 2-2.5 & 4-5 ft bgs for PCB analysis.
Sample collected from 2-2.5 ft bgs also subjected to VOC analysis.

BORING NO. : SB-23-20

AECOM

TEST BORING LOG

BORING NO. : SB-24-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080709.0082 **EASTING:** 1061280.2857

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 600.83 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		87.5	Gray Red Brown		FILL: coarse to fine sand and medium to fine gravel	ML	0.0	Moist, No Odor
									0.0	
							SILT, some Clay		0.0	Wet
							Gravel lense @ 2.5'		0.0	
-5							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-2 & 3-4 ft bgs for PCB analysis.

BORING NO. : SB-24-20

AECOM

TEST BORING LOG

BORING NO. : SB-25-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080699.1923 **EASTING:** 1061292.0623

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 600.86 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		87.5	Gray Red Brown		FILL: coarse to fine sand and medium to fine gravel	ML	0.0	Moist, No Odor
									0.0	
							SILT, some Clay		0.0	Wet
							Gravel lense @ 2.5'		0.0	
-5							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-2 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-26-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080483.3579 **EASTING:** 1061343.7866

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.62 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		55	Brown to Dark Brown		FILL: coarse to fine sand and gravel, reworked silt.		0.0 0.0	Moist, No Odor
-5		2		100	Red Brown		SILT, some-trace Clay	ML	0.0 0.0 0.0 0.0	Gray Desiccation Cracks
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-27-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080506.3997 **EASTING:** 1061368.2039

GROUNDWATER: 1 ft bgs

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

GROUND ELEVATION: 602.62 ft amsl

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		37.5	Gray Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
-5		2		62.5	Red Brown		SILT, some-trace Clay	ML	0.0	Gray Desiccation Cracks
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 3.5-4.5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-28-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080528.105 **EASTING:** 1061393.6298

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.47 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		37.5	Black to Tan		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
-5		2		55	Brown		no gravel		0.0	
									0.0	
-10		3		100					0.0	
									0.0	
									0.0	
-15							End of Boring at 12 ft bgs.			
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-29-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080557.4561 **EASTING:** 1061419.1747

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.73 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		72.5	Brown		FILL: coarse to fine sand and gravel, reworked silt and clay		0.0 0.0	Dry to Moist, No Odor
-5		2		100	Red Brown		SILT, some-trace Clay	ML	0.0 0.0 0.0 0.0	Gray Desiccation Cracks
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 2-4 & 5-6 ft bgs for PCB analysis.
Sample collected from 2-4 ft bgs also analyzed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-30-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080611.4853 **EASTING:** 1061447.7003

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

GROUND ELEVATION: 603.01 ft amsl

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		85	Brown		FILL: coarse to fine sand and medium to fine gravel and reworked silt, brick fragments		0.0	Dry, No Odor
									0.0	
		2		100					0.0	
-5					Red Brown		SILT, some-trace Clay	ML	0.0	Moist, Gray Desiccation Cracks
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 2-4 & 5-6 ft bgs for PCB analysis.
Sample collected from 2-4 ft bgs also analyzed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-31-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080628.6936 **EASTING:** 1061488.0366

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 603.59 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		47.5	Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
-5		2		50					0.0	Wet
									0.0	
		3		100					0.0	
-10							Refusal at 8.5 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-32-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080904.2254 **EASTING:** 1061684.034

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.11 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		97.5	Red Brown		SILT	ML	0.0 0.0 0.0 0.0	Moist, No Odor, Gray Desiccation Cracks
-5		2		100	Brown		Medium to fine SAND SILT, some medium to fine Gravel	SW ML	0.0 0.0 0.0 0.0	Wet
-10							End of Boring at 8.7 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 2.5-3.5 & 4.5-5.5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-33-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080896.6203 **EASTING:** 1061693.897

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

DATE	TIME	LEVEL	TYPE

* POCKET PENETROMETER READING

GROUND ELEVATION: 601.31 ft amsl

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		87.5	Red Brown		SILT, some-trace Clay and fine Gravel	ML	0.0	Moist, No Odor
									0.0	
									0.0	
									0.0	
-5		2		100					0.0	
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8.9 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-2 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-34-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080763.6792 **EASTING:** 1061384.2087

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 601.12 ft amsl

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		25	Gray Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
		2		100					0.0	Wet
-5									0.0	
					Red Brown		SILT, some-trace Clay	ML	0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 3-4 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-35-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080772.7609 **EASTING:** 1061393.2995

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.20 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		25	Gray Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	Wet
-5		2		25					0.0	
									0.0	NAPL at 7.9'
		3		100					0.0	Odor
-10							Refusal at 9 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5 & 8-9 ft bgs for PCB analysis.
Sample collected at 8-9 ft bgs also analyzed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-36-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080752.5898 **EASTING:** 1061395.2108

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 600.98 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		17.6	Brown		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
-5		2		75					0.0	
									0.0	
					Red Brown		Clayey SILT	ML	0.0	
-10							End of Boring at 9 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-1.5 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-37-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080761.143 **EASTING:** 1061404.4351

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 601.05 ft amsl

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		42.5	Brown		CONCRETE			Wet, No Odor
							FILL: coarse to fine sand and gravel		0.0	
					Red Brown		SILT, some Clay	ML	0.0	Gray Desiccation Cracks
-5							End of Boring at 5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0.6-3 & 3-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-38-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080944.3806 **EASTING:** 1061439.5815

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 601.38 ft amsl

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		75	Gray Brown		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
					Red Brown		Clayey SILT, some fine Gravel	ML	0.0	
-5							End of Boring at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-39-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080973.0826 **EASTING:** 1061469.3339

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.22 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		77.5	Brown		FILL: coarse to fine sand and gravel and reworked silt		0.0	Wet, No Odor
									0.0	
									0.0	
-5		2		100	Staining				0.0	Odor at 5.5'
							Refusal at 5.5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 5-5.5 ft bgs for PCB analysis.
Sample collected at 5-5.5 ft bgs was also analyzed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-40-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081008.3799 **EASTING:** 1061464.3931

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.30 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		22.5	Gray Brown		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
-5		2		47.5					0.0	
					Red Brown		SILT, some Clay	ML	0.0	Gray Desiccation Cracks
-10							End of Boring at 9 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-5 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-41-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081098.1816 **EASTING:** 1061544.1579

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.33 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		45	Gray Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	Wet
-5							End of Boring at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1.5 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-42-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081084.043 **EASTING:** 1061557.1

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.38 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		25.7	Dark Gray		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor Wet
-5							Refusal at 3.5 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 2.5-3.5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-43-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080866.2082 **EASTING:** 1061531.3696

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.56 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		37.5	Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
		2		100					0.0	Wet
-5									0.0	
					Red Brown		SILT, some-trace Clay	ML	0.0	Moist, Gray Desiccation Cracks
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 2-3 & 4-5 ft bgs for PCB analysis.
Sample collected at 0-0.5 also analyzed for SVOCs and Metals.

AECOM

TEST BORING LOG

BORING NO. : SB-44-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080905.4341 **EASTING:** 1061532.3364

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.26 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		30	Brown		FILL: coarse to fine sand and gravel			Moist, No Odor
									0.0	
									0.0	
-5		2		25					0.0	Wet
		3		25					0.0	
-10					Red Brown		SILT	ML		
							End of Boring at 12 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 4-5 & 8-9 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-45-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080888.8671 **EASTING:** 1061548.1207

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.63 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		52.5	Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
		2		100					0.0	Wet
-5									0.0	
					Red Brown		SILT, some-trace Clay Gravel lense @ 6.9-7'	ML	0.0	Moist
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 2-3 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-46-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080873.5938 **EASTING:** 1061561.9165

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

GROUND ELEVATION: 601.92 ft amsl

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		32.5	Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
-5		2		100					0.0	Wet
					Red Brown		SILT, some-trace Clay	ML	0.0	Moist, Gray Desiccation Cracks
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 2-3 & 4-5 ft bgs for PCB analysis.
Soil sample from 2-3 ft bgs was also analyzed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-47-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080905.9543 **EASTING:** 1061564.9553

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

GROUND ELEVATION: 601.66 ft amsl

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		45	Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
									0.0	
		2		100					0.0	Wet
-5					Red Brown		SILT, some-trace Clay	ML	0.0	Moist
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 2-3 & 4-4.8 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-48-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080945.6597 **EASTING:** 1061604.8208

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.25 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/3/2020

DATE FINISHED: 11/3/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0					Gray/ Black		FILL: reworked silt, clay and gravel.			Wet, No Odor
		1		87.5	Red Brown		SILT, some-trace Clay	ML	0.0 0.0 0.0	
-5							Refusal at 3.5ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-2 & 2-3 ft bgs for PCB analysis.
Soil sample from 0-0.5 ft bgs was also analysed for Metals & SVOCs

AECOM

TEST BORING LOG

BORING NO. : SB-49-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081001.4611 **EASTING:** 1061593.4387

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.35 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		50	Gray Dark Staining		FILL: coarse to fine sand and gravel		0.0	Dry Slight Odor @ 1.9-2'
							Refusal at 2 ft bgs.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5 & 1.5-2 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-50-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080978.2756 **EASTING:** 1061609.694

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 601.27 ft amsl

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		37.5	Gray Brown		FILL: reworked silt and gravel		0.0	Moist, No Odor
									0.0	
									0.0	
									0.0	
									0.0	Wet
-5		2		100	Red Brown		SILT, some-trace Clay	ML	0.0	
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 3.5-4.5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-51-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080963.5521 **EASTING:** 1061623.7097

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.75 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/3/2020

DATE FINISHED: 11/3/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		52.5	Gray Brown		FILL: reworked silt, clay and gravel		0.0	Wet, No Odor
									0.0	
									0.0	
									0.0	
				97.5					0.0	
-5		2			Red Brown		SILT, some-trace Clay	ML	0.0	Moist to Wet, Gray Desiccation Cracks
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 3-4 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-52-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080950.1185 **EASTING:** 1061639.1396

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

GROUND ELEVATION: 601.68 ft amsl

DATE STARTED: 11/6/2020

DATE FINISHED: 11/6/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DATE	TIME	LEVEL	TYPE

* POCKET PENETROMETER READING

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		62.5	Brown		FILL: coarse to fine sand and gravel		0.0	Moist, No Odor
					Red Brown		SILT, some-trace Clay	ML	0.0	
									0.0	
-5							End of Boring at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 1-1.5 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-53-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080975.5642 **EASTING:** 1061638.1989

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.17 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/3/2020

DATE FINISHED: 11/3/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		30	Gray Brown		FILL: coarse to fine sand and medium to fine gravel		0.0	Wet, No Odor
									0.0	
									0.0	
									0.0	
									0.0	
-5		2		87.5					0.0	
					Red Brown		SILT, some-trace Clay	ML	0.0	Moist
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0.5-1, 3-4 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-54-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081018.4088 **EASTING:** 1061678.9989

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 601.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/3/2020

DATE FINISHED: 11/3/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		87.5	Gray/ Black		FILL: silt and coarse to fine gravel	ML	0.0	Moist, No Odor
					Red Brown		SILT, some-trace Clay		0.0	
									0.0	
-5							End of Boring at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0.5-1, 1.5-2 & 3.5-4.5 ft bgs for Metals, VOCs, SVOCs & PCB analysis.
Soil sample from 0.5-1 ft bgs was also analyzed for Metals & SVOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-55-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081072.8436 **EASTING:** 1061664.8263

GROUNDWATER: 1 ft bgs					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 601.32 ft amsl

DATE STARTED: 11/9/2020

DATE FINISHED: 11/9/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		22.5	Gray		FILL: coarse to fine sand and gravel		0.0	Wet, No Odor
-5		2		100					0.0	
									0.0	
									0.0	NAPL @ 7.5-8'
					Red Brown		SILT, some Clay	ML	0.0	Gray Desiccation Cracks
-10							End of Boring at 9 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-0.5, 5-6 & 7-8 ft bgs for PCB analysis.
Sample collected at 7-8 ft bgs also analyzed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-56-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081151.8743 **EASTING:** 1061859.006

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

DATE	TIME	LEVEL	TYPE

GROUND ELEVATION: 600.84 ft amsl

DATE STARTED: 11/5/2020

DATE FINISHED: 11/5/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							CONCRETE			
		1		50	Gray		FILL: silt, coarse to fine sand and medium to fine gravel		0.0	Wet, No Odor
-5		2		100	Dk. Stain				0.0	Odor
							Refusal at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1-5 & 5-6 ft bgs for PCB analysis.
Soil sample from 1-5 ft bgs was also analyzed for SVOCs and Metals.

AECOM

TEST BORING LOG

BORING NO. : SB-57-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081805.0487 **EASTING:** 1062142.1112

GROUNDWATER: 5 ft bgs | **GROUND ELEVATION:** 601.91 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/3/2020

DATE FINISHED: 11/3/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		25	Brown		ASPHALT FILL: reworked silt and gravel		0.0	Dry, No Odor
				100					0.0	
-5		2			Red Brown		SILT, some Clay	ML	0.0 0.0 0.0	Wet, Gray Desiccation Cracks
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-4 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-58-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081882.503 **EASTING:** 1062137.5164

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 604.88 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		75	Brown		TOPSOIL		0.0	Dry, No Odor
							FILL: silt, sand and gravel mix		0.0	
									0.0	
									0.0	
-5		2		100					0.0	
									0.0	
					Red Brown		SILT, some Clay	ML	0.0	Moist
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-59-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081839.0959 **EASTING:** 1062176.5241

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.63 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0							TOPSOIL		0.0	Dry, No Odor
		1		100	Brown		FILL: reworked silt, clay and gravel		0.0	
									0.0	
									0.0	
-5		2		100	Black		medium to fine sand		0.0	
									0.0	
					Red Brown		Clayey SILT	ML	0.0	Moist
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 3-4 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-60-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081817.716 **EASTING:** 1062202.8199

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.67 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100	Brown		TOPSOIL		0.0	Dry, No Odor
									0.0	
									0.0	
							FILL: coarse to fine sand and medium to fine gravel		0.0	Moist
-5		2		100			with reworked silt and clay		0.0	
									0.0	
					Red Brown		SILT, some-trace Clay and medium to fine Gravel	ML	0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 3-4 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-61-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081867.8588 **EASTING:** 1062203.8768

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.23 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		75	Brown		TOPSOIL		0.0	Dry, No Odor
					Black		FILL: coarse to fine sand, some coarse to fine gravel		0.0	Moist
									0.0	
									0.0	
-5		2		87.5					0.0	
									0.0	
					Red Brown		SILT, some-trace Clay	ML	0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3, 5-6 & 6-7 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-62-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081955.3375 **EASTING:** 1062211.6222

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.09 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0				87.5	Brown		TOPSOIL		0.0	Dry, No Odor
									0.0	
		1			Black Gray		FILL: coarse to fine sand, some silt		0.0	Moist
									0.0	
				100					0.0	
-5		2			Red Brown		SILT, some Clay	ML	0.0	Gray Desiccation Cracks
									0.0	
									0.0	
							End of Boring at 8 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 4-5 ft bgs for PCB analysis.

BORING NO. : SB-62-20

AECOM

TEST BORING LOG

BORING NO. : SB-63-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1082206.2059 **EASTING:** 1062488.2296

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

*** POCKET PENETROMETER READING**

GROUND ELEVATION: 602.58 ft amsl

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
		1		17.5	Brown		TOPSOIL		0.0	Wet, No Odor
									0.0	
							FILL: coarse to fine gravel and medium to coarse sand		0.0	
-5		2		100	Gray				0.0	
					Red Brown		SILT, trace-some Clay	ML	0.0	
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 1-2 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-64-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1082184.9774 **EASTING:** 1062508.2225

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.64 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
		1		75	Brown / Gray		TOPSOIL FILL: medium to coarse sand and coarse to fine gravel		0.0 0.0 0.0	Dry No Odor Wet
-5		2		75	Medium Brown		SILT, trace Clay	ML	0.0 0.0	Gray desiccation cracks
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-65-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1082161.648 **EASTING:** 1062529.8398

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.75 ft amsl

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
		1		52.5	Brown		TOPSOIL		0.0	Wet, No Odor
					Gray		FILL: coarse to fine sand and medium to fine gravel		0.0	
									0.0	
				100					0.0	
-5		2			Red Brown		SILT, trace-some Clay	ML	0.0	
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-66-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1082206.9741 **EASTING:** 1062524.4876

GROUNDWATER: 1 ft bgs

GROUND ELEVATION: 601.97 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		88	Brown / Red Brown		FILL SILT, trace-some Clay	ML	0.0 0.0 0.0	Dry No Odor Moist
-5		2		100					0.0 0.0	
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 1-2 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-67-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081879.7116 **EASTING:** 1062365.5373

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.16 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		67.5	Brown		TOPSOIL		0.0	Dry, No Odor
									0.0	
									0.0	Moist
					Dark Brown		FILL: fine sand		0.0	
-5		2		87.5	Black				0.0	
									0.0	
					Red Brown		SILT, some-trace Clay	ML	0.0	Gray Desiccation Cracks
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 3-4 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-68-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081605.9352 **EASTING:** 1062367.6265

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 603.61 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
				95	Brown		TOPSOIL: reworked silt and clay		0.0	Dry, No Odor
									0.0	
		1			Gray/ Black		FILL: coarse to fine gravel and sand, some silt		0.0	Moist
									0.0	
				100	Gray		CLAY and SILT	ML/CL	0.0	
-5		2			Red Brown		Silty CLAY	CL	0.0	
									0.0	
									0.0	
							End of Boring at 8 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-69-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081644.7285 **EASTING:** 1062349.9841

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 606.61 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		85	Brown		TOPSOIL	ML	0.0	Moist, No Odor
					Red/ Gray		FILL: silt and coarse to fine gravel		0.0	
					Red Brown		SILT		0.0	Tan Mottling
-5							End of Boring at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 1-2, 2-3 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-70-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081622.7406 **EASTING:** 1062394.6564

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 607.12 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
		1		92.5	Brown		TOPSOIL		0.0	Dry, No Odor
									0.0	
					Gray		FILL: coarse to fine gravel and coarse to medium sand		0.0	
				40					0.0	
-5		2					medium to fine sand		0.0	
					Black		some silt @ 6'		0.0	
		3		100						
					Red Brown w/ Gray Mottling		SILT, some -trace Clay	ML	0.0	Moist
									0.0	
-10									0.0	
							End of Boring at 10 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 3-4 & 5-6 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-71-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081770.2575 **EASTING:** 1062453.9221

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.70 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		87.5	Brown / Red Brown		TOPSOIL FILL: coarse to fine gravel and silt		0.0 0.0	Dry, No Odor
-5		2		0			SILT 4-6 ft bgs No Recovery	ML	0.0	
-10							End of Boring at 6 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 1-2 & 2-3 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-72-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081866.476 **EASTING:** 1062554.9809

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 604.89 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		75	Brown / Dark Gray Stained		TOPSOIL FILL: coarse to fine gravel and silt and medium to coarse sand		0.0 0.0 0.0	Dry Moist, No Odor
-5		2		100	Black / Red Brown		medium to fine sand SILT End of Boring at 6 ft bgs.	ML	0.0 0.0	
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 4-5 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-73-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081929.9421 **EASTING:** 1062648.3994

GROUNDWATER: 4 ft bgs

GROUND ELEVATION: 604.72 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0				62.5	Brown		TOPSOIL			Dry, No Odor
		1			Gray		FILL: coarse to fine gravel and coarse to medium sand		0.0 0.0 0.0	
-5		2		100	Red Brown		Clayey SILT	ML	0.0 0.0	Moist w/ Tan Mottling
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 2-3 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-74-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081909.1076 **EASTING:** 1062683.1437

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 605.21 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
		1		62.5	Brown		TOPSOIL			
					Dark Stained		FILL: medium to fine sand and silt, some fine gravel		0.0 0.0 0.0	Moist, No Odor
-5		2		100	Red Brown		Clayey SILT, trace Organics	ML	0.0 0.0	Tan Mottling
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 2-3 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-75-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081869.5295 **EASTING:** 1062724.7628

GROUNDWATER: 5 ft bgs | **GROUND ELEVATION:** 604.07 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/3/2020

DATE FINISHED: 11/3/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		87.5	Brown		TOPSOIL		0.0	Dry, No Odor
							FILL: reworked silt		0.0	
									0.0	
									0.0	
				100					0.0	
-5		2			Red Brown		SILT, some Clay	ML	0.0	Gray Mottling
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 3-4 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-76-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081946.1631 **EASTING:** 1062713.1146

GROUNDWATER: 4 ft bgs | **GROUND ELEVATION:** 604.70 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0										
				87.5	Brown		TOPSOIL		0.0	
		1			Red Brown		FILL: silt and coarse to fine gravel		0.0	Moist, No Odor Dark Staining @ 3 ft bgs Lt. Mottling @ 4 ft bgs
									0.0	
-5				100	Light Red Brown		SILT	ML	0.0	
		2							0.0	
							End of Boring at 6 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 2-3 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-77-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1082026.9693 **EASTING:** 1062670.1978

GROUNDWATER: 1 ft bgs

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 602.54 ft amsl

DATE STARTED: 11/2/2020

DATE FINISHED: 11/2/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		87.5	Gray / Red Brown		FILL: topsoil and coarse to fine gravel SILT, trace-some Clay	ML	0.0 0.0 0.0	Moist, No Odor Slight Staining @ 2-3 ft bgs
-5							End of Boring at 4 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1, 1-2 & 2-3 ft bgs for PCB analysis.

AECOM

TEST BORING LOG

BORING NO. : SB-78-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080879.5425 **EASTING:** 1061725.4429

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.06 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		62.5	Brown / Red Brown		FILL SILT, some-trace Clay and medium to fine Gravel	ML	0.0 0.0 0.0 0.0	Moist, No Odor
-5		2		100					0.0 0.0 0.0 0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 1.5-2.5 & 4-5 ft bgs for Metals, SVOCs & PCB analysis.
Soil sample from 1.5-2.5 ft bgs was also analysed for VOCs.

AECOM

TEST BORING LOG

BORING NO. : SB-79-20

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080903.1536 **EASTING:** 1061750.0306

GROUNDWATER: 1 ft bgs | **GROUND ELEVATION:** 602.28 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 11/4/2020

DATE FINISHED: 11/4/2020

DRILLER: K. Busch

GEOLOGIST: K. McGovern

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		75	Gray / Red Brown		FILL: coarse to fine sand and gravel		0.0	Moist, Odor
							SILT, some-trace Clay and fine Gravel	ML	0.0	No Odor
									0.0	
									0.0	
-5		2		100					0.0	
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples from 0-1 & 3.5-4.5 ft bgs for PCB analysis.
Soil sample from 3.5-4.5 ft bgs was also analysed for Metals & SVOCs

AECOM

TEST BORING LOG

BORING NO. : SB-80-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080725.161 **EASTING:** 1061287.001

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022

DATE FINISHED: 1/27/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		25	Brown		CONCRETE		0.0	Dry, No Odor
							FILL Sand and Gravel		0.0	Moist
									0.0	
					Rd Brn		CLAY, trace to some Sand and Gravel	CL	0.0	
		2		0	Md. Brown		SAND, trace small Gravel	SW	0.0	
-5									0.0	
									0.0	
		3		100					0.0	
									0.0	
-10									0.0	
							Refusal at 10.5 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 3'-3.7', 3.7'-4' & 10'-10.5' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-81-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080727.177 **EASTING:** 1061306.974

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022

DATE FINISHED: 1/27/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100			CONCRETE		0.0	Dry, No Odor
							FILL Sand and Gravel		0.0	Moist
					Red Brown		CLAY	CL	0.0	
									0.0	
-5		2		100					0.0	
									0.0	
									0.0	
							End of Boring at 8 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1.7'-2.1', 2.'1-2.7', 3.5'-4', 5'-6' & 7'-8' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-82-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD
SHEET: 1 **OF** 1
CLIENT: New York State Department of Environmental Conservation
JOB NO. : 60633654
BORING CONTRACTOR: Nothnagle Drilling
NORTHING: 1080710.478 **EASTING:** 1061311.825
GROUNDWATER: 1 foot
GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022
DATE FINISHED: 1/26/2022
DRILLER: K. Busch
GEOLOGIST: S. Connelly
REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		0	Tannish Brown		CONCRETE		0.0	Dry, No Odor
							FILL Sand and Gravel		0.0	Moist
									0.0	
									0.0	
-5		2		25					0.0	
									0.0	
									0.0	
									0.0	
		3		37.5					0.0	
-10									0.0	
									0.0	
							Refusal at 11 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 3.4'-4.0', 7'-8' & 10'-11' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-83-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080722.006 **EASTING:** 1061352.820

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022

DATE FINISHED: 1/26/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		58	Gray Red Brown w/ Gray Mottling		CONCRETE		0.0	Dry, No Odor Moist
							FILL Sand and Gravel	CL	0.0	
							CLAY		0.0	
		2		100					0.0	
-5									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1.3'-1.5', 1.5'-2.0', 3.5'-4.0' & 7.5-8.0' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-84-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD
SHEET: 1 **OF** 1
CLIENT: New York State Department of Environmental Conservation
JOB NO. : 60633654
BORING CONTRACTOR: Nothnagle Drilling
NORTHING: 1080771.452 **EASTING:** 1061404.763
GROUNDWATER: 1 foot
GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022
DATE FINISHED: 1/27/2022
DRILLER: K. Busch
GEOLOGIST: S. Connelly
REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100			CONCRETE		0.0	Dry, No Odor
					Brown		FILL: Sand and Gravel		0.0	Moist.
									0.0	
									0.0	
		2		100					0.0	
-5									0.0	Sheen & Slight Odor @ 6.6-7.6'
									0.0	
									0.0	
		3		100	Red Brown		CLAY	CL	0.0	Gray Mottling @ 7.6-12'
-10									0.0	
									0.0	
									0.0	
							End of Boring at 12 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 3.5'-4', 6.6'-7.6', 9'-9.5' & 11.5'-12' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-85-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD
SHEET: 1 **OF** 1
CLIENT: New York State Department of Environmental Conservation
JOB NO. : 60633654
BORING CONTRACTOR: Nothnagle Drilling
NORTHING: 1080999.260 **EASTING:** 1061641.471
GROUNDWATER: 1 foot
GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022
DATE FINISHED: 1/26/2022
DRILLER: K. Busch
GEOLOGIST: S. Connelly
REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100	Lt. Brn / Black		FILL Very Fine Silty SAND	SP	0.0 0.0 0.0 0.0	Moist, No Odor
-5		2		50	Tannish Brown		Silty GRAVEL and SAND	SW/GW	0.0 0.0 0.0 0.0	Satuated Wet
-10		3		50	Red Brown		CLAY	CL	0.0 0.0 0.0 0.0	Moist w/ Gray Mottling
-15							End of Boring at 12 ft bgs.			
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1'-1.5', 2'-3, 3'-4' & 11'-12' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-86-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080972.242 **EASTING:** 1061658.119

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022

DATE FINISHED: 1/26/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		75	Tannish Brown		FILL Sand and Gravel		0.0	Moist, No Odor
									0.0	Black btw 0.7-1.6'
					Rd Brn w/ Gray Mottling		CLAY	CL	0.0	
									0.0	
-5		2		100	Gy Brn		Little to Some Sand and Gravel		0.0	Wet
							Refusal at 5.3 ft bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1'-1.5', 2'-2.5', 2.5'-4' & 4'-5.3' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-87-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080915.689 **EASTING:** 1061664.466

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022

DATE FINISHED: 1/26/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		0	Gray		CONCRETE		0.0	Dry, No Odor Moist
							FILL Sand and Gravel		0.0	
									0.0	
									0.0	
-5		2		100	Red Brown w/ Gray Mottling		CLAY	CL	0.0	
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 4'-4.3' & 4.3'-5' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-88-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1080918.705 **EASTING:** 1061679.936

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022

DATE FINISHED: 1/26/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		65			CONCRETE		0.0	Dry, No Odor Moist
					Gray Red Brown w/ Gray Mottling		FILL Sand and Gravel	CL	0.0	
							CLAY		0.0	
		2		100					0.0	
-5									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1.4'-1.6' & 1.6'-2' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-89-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080890.583 **EASTING:** 1061667.187

GROUNDWATER: 1 foot

GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/26/2022

DATE FINISHED: 1/26/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		55			CONCRETE		0.0	Moist, No Odor
					Gray		FILL Sand and Gravel		0.0	
					Red Brown w/ Gray Mottling		CLAY	CL	0.0	
-5		2		100					0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1'-1.5', 3'-4' & 4'-5' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-90-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD
SHEET: 1 **OF** 1
CLIENT: New York State Department of Environmental Conservation
JOB NO. : 60633654
BORING CONTRACTOR: Nothnagle Drilling
NORTHING: 1081091.172 **EASTING:** 1061854.098
GROUNDWATER: 1 foot
GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022
DATE FINISHED: 1/27/2022
DRILLER: K. Busch
GEOLOGIST: S. Connelly
REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100			CONCRETE		0.0	Dry, No Odor
					Brown		FILL Sand and Gravel		0.0	Moist
									0.0	
					Red Brown		CLAY	CL	0.0	Gray Mottling & Black Staining @ 3.1-4.3'
		2		100					0.0	
-5									0.0	Gray Mottling @ 4.3-10'
									0.0	
									0.0	
		3		100			Sand and Gravel Lenses @ 8.6-8.8'		0.0	
-10									0.0	
							Refusal at 10 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 2.7'-3.1', 3.1'-3.6', 3.6'-4', 4'-4.3' & 7'-8' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-91-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1081110.097 **EASTING:** 1061866.996

GROUNDWATER: 1 foot

GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022

DATE FINISHED: 1/27/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100	Red Brown		ASPHALT		0.0	Dry, No Odor
							CONCRETE		0.0	
							CLAY	CL	0.0	Moist. Trace Black Staining @ 1.5-4'.
									0.0	
-5		2		100					0.0	Slight Staining @ 4-4.5'
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 3.5'-4, 4'-4.5' & 7.5'-8' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-92-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD
SHEET: 1 **OF** 1
CLIENT: New York State Department of Environmental Conservation
JOB NO. : 60633654
BORING CONTRACTOR: Nothnagle Drilling
NORTHING: 1081121.937 **EASTING:** 1061883.834
GROUNDWATER: 1 foot
GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022
DATE FINISHED: 1/27/2022
DRILLER: K. Busch
GEOLOGIST: S. Connelly
REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100			CONCRETE		0.0	Dry, No Odor
							FILL: Sand and Gravel		0.0	
					Red Brown		CLAY	CL	0.0	Moist. Possible Black Staining @ 2.5-2.8'
-5		2		100					0.0	Gray Mottling @ 4-8'
									0.0	
									0.0	
									0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1.5'-2', 2.5'-3', 3.5'-4' & 7.5'-8' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-93-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD | **SHEET: 1 OF 1**

CLIENT: New York State Department of Environmental Conservation | **JOB NO. : 60633654**

BORING CONTRACTOR: Nothnagle Drilling | **NORTHING:** 1081100.079 **EASTING:** 1061883.948

GROUNDWATER: 1 foot | **GROUND ELEVATION:** est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022

DATE FINISHED: 1/27/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100	Dark Brown / Red Brown		ASPHALT / CONCRETE / FILL Sand and Gravel / CLAY	CL	0.0	Dry, No Odor / Moist / Gray Mottling & Black Staining @ 2-2.5' & 3.3-3.6' / Gray Mottling @ 4-8'
-5		2		100					0.0	
-10							End of Boring at 8 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 1.6'-2', 2'-2.5', 3.3'-3.6', 3.6'-4' & 7'-8' for PCBs

AECOM

TEST BORING LOG

BORING NO. : SB-103-21

PROJECT/PROJECT LOCATION: Tonawanda Forge RD

SHEET: 1 **OF** 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 60633654

BORING CONTRACTOR: Nothnagle Drilling

NORTHING: 1080749.769 **EASTING:** 1061425.593

GROUNDWATER: 1 foot

GROUND ELEVATION: est 600.00 ft amsl

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			FALL				
			* POCKET PENETROMETER READING				

DATE STARTED: 1/27/2022

DATE FINISHED: 1/27/2022

DRILLER: K. Busch

GEOLOGIST: S. Connelly

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1		100			CONCRETE		0.0	Dry, No Odor
					Brown		FILL: Sand and Gravel		0.0	Moist.
									0.0	
							Fine to Medium SAND, some Gravel	SW	0.0	
		2		100					0.0	Wet @ 4'
-5									0.0	
									0.0	
									0.0	
		3		100					0.0	
									0.0	
-10									0.0	
					Rd Brn		CLAY	CL	0.0	Gray Mottling @ 11.6-12'
							End of Boring at 12 ft bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track-mounted 6610 DT Geoprobe rig using a 2-inch Macrocore sampler.
Collected soil samples at 3.5'-4', 11.2'-11.5' & 11.8'-12' for PCBs

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	603.34
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-01-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.6- Concrete.
1	0.6-1.1- Brown, wet, silty SAND with black gravel. Sample ID: SF-01-20-0.6-1.1. Analyzed for PCB's only. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.37
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-02-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1- Concrete and brick
1	
1.5	1.1-1.6- Brown silty CLAY with wet black gravel. Sample ID SF-02-20-1.1-1.6. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.39
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-03-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.2- Concrete
1	
1.5	1.2-1.7- Dark grey to black, wet CLAY with little gravel. Sample ID: SF-03-20-1.2-1.7. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.32
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-04-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.2- Concrete
1	
1.5	1.2-1.7- Black GRAVEL with little sediment. Strong petroleum/ tar odor. Sample ID: SF-04-20-1.2-1.7.
2	Analyzed for PCB's only. 0.0 ppm
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.38
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-05-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1- CONCRETE
1	
1.5	1.1-1.6- Brown, moist silty SAND with little clay and some gravel. Sample ID: SF-05-20-1.1-1.6. Analyzed for PCB's.
2	0.0 ppm
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/11/2020	**GROUND ELEVATION:**	600.98
DATE COMPLETED:	11/11/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-06-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.9- CONCRETE
1	
1.5	0.9-1.4- Brown, very wet silty SAND with some gravel . Sample ID: SF-06-20-0.9-1.4. Analyzed for PCB's only. 0.0 ppm Oily sheen on water at core hole while probing.
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/11/2020	**GROUND ELEVATION:**	601.05
DATE COMPLETED:	11/11/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-07-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.8- CONCRETE
1	0.8-1.3- Brown, wet silty SAND with some gravel. Sample ID: SF-07-20-0.8-1.3. Analyzed for PCB's only. 0.0 ppm
1.5	Oily sheen on water at core hole while probing.
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/11/2020	**GROUND ELEVATION:**	601.04
DATE COMPLETED:	11/11/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-08-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.7- CONCRETE
1	0.7-1.2- Brown, wet silty SAND with some gravel. Sample ID: SF-08-20-0.7-1.2. Analyzed for PCB's only. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/11/2020	**GROUND ELEVATION:**	601.07
DATE COMPLETED:	11/11/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-09-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.7- CONCRETE
1	0.7-1.2- Brown, wet silty SAND with some gravel. Sample ID: SF-09-20-0.7-1.2. Analyzed for PCB's only. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/11/2020	**GROUND ELEVATION:**	601.36
DATE COMPLETED:	11/11/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-10-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1- CONCRETE
1	
1.5	1.1-1.6- Brown, wet silty SAND with some gravel. Sample ID: SF-10-20-1.1-1.6. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.31
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-11-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1- Concrete
1	
1.5	1.1-1.6- Brown, moist silty SAND with some gravel. Sample ID: SF-11-20-1.1-1.6. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/4/2020	**GROUND ELEVATION:**	602.03
DATE COMPLETED:	11/4/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-12-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Dark brown, moist TOPSOIL with fine to course gravel. Sample ID: SF-12-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/4/2020	**GROUND ELEVATION:**	602.45
DATE COMPLETED:	11/4/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-13-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Dark brown, moist TOPSOIL with fine to course gravel. Sample ID: SF-13-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.42
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-14-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.9- CONCRETE
1	
1.5	0.9-1.4- Brown silty CLAY with some gravel. Sample ID: SF-14-20-0.9-1.4. Analyzed for PCB's. 0.0ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.28
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-15-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.8- CONCRETE
1	0.8-1.3- Brown silty CLAY with some gravel. Sample ID: SF-15-20-0.8-1.3. Analyzed for PCB's only. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.91
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-16-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Asphalt
1	0.5-1.0- Concrete
1.5	1.0-1.5- Brown silty CLAY with black sand and gravel. Sample ID: SF-16-20-1.0-1.5. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	600.64
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-17-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0.-0.6- CONCRETE
1	0.6-1.1- Wet GRAVEL. After multiple attempts, couldn't retrieve anything besides gravel with JMC sampler. No sample.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.15
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-18-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1- CONCRETE
1	
1.5	1.1-1.6- Brown, moist silty CLAY with some gravel. Sample ID: SF-18-20-1.1-1.6. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.35
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-19-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1- CONCRETE
1	
1.5	1.1- UNKNOWN- Thick slab/ CONCRETE. Couldn't penetrate with drill or JMC sampler. No sample.
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/4/2020	**GROUND ELEVATION:**	600.91
DATE COMPLETED:	11/4/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-20-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Dark brown, moist TOPSOIL with fine gravel. Sample ID: SF-20-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm
1	0.5-1.0- Dark brown, moist TOPSOIL with medium gravel. Sample ID: SF-20-20-0.0-1.0. Analyzed for SVOC's, metals and mercury. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/4/2020	**GROUND ELEVATION:**	601.10
DATE COMPLETED:	11/4/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-21-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Dark brown, moist TOPSOIL with fine gravel. Sample ID: SF-21-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm
1	0.5-1.0- Dark brown, moist TOPSOIL with pebble sized gravel. Sample ID: SF-21-20-0.0-1.0. Analyzed for SVOC's, metals and mercury 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	601.02
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-22-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.3- TOPSOIL - Brown SILT, some clay and organics. Sample ID: SF-22-20-0.0-0.5. Analyzed for PCB's only. 0.0 ppm.
1	0.3-1.0 - SILTY CLAY - Gray/Brown with mottling with thin plant/grass roots, saturated. Sample ID: SF-22-20-0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	N/A
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-23-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5 - TOPSOIL - Brown SILT, some clay and organics. Sample ID: SF-23-20-0.0-0.5. Analyzed for PCB's only. 0.0 ppm.
1	0.5-1.0 - SILTY CLAY - Gray/Brown with mottling with thin plant/grass roots. Sample ID: SF-23-20-0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	600.42
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-24-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.2- TOPSOIL - Brown SILT, some clay and organics. Sample ID: SF-24-20-0.0-0.5. Analyzed for PCB's only. 0.0 ppm.
1	0.2-1.0 - SILTY CLAY - Gray/Brown with mottling with thin plant/grass roots. Sample ID: SF-24-20-0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	600.63
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-25-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- TOPSOIL - Brown SILT, some clay and organics. Sample ID: SF-25-20-0.0-0.5. Analyzed for PCB's only. 0.0 ppm.
1	0.5-1.0 - CLAY - Red/Brown with gray mottling, trace gravel. Sample ID: SF-25-20-0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	601.27
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-26-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5 - Clayey SILT - Dark Brown, some organics, saturated. Sample ID: SF-26-20- 0.0-0.5. Analyzed for PCB's only 0.0 ppm.
1	0.5-1.0 - SILT, some Clay. Dark Brown, saturated. Sample ID: SF-26-20- 0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	600.99
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-27-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5 - TOPSOIL - Dark Brown SILT, some clay and organics, saturated. Sample ID: SF-27-20- 0.0-0.5. Analyzed for PCB's only 0.0 ppm.
1	0.5-1.0 - SILT, some Clay. Red/Brown, moist. Sample ID: SF-27-20- 0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	600.99
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-28-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5 - TOPSOIL - Dark Brown SILT, some clay and organics, saturated. Sample ID: SF-28-20- 0.0-0.5. Analyzed for PCB's only 0.0 ppm.
1	0.5-1.0 - SILT, some Clay. Red/Brown, moist. Sample ID: SF-28-20- 0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	602.33
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-29-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.4- FILL - Brown SILT, some sand, trace gravel and organics. Sample ID: SF-29-20-0.0-0.5. Analyzed for PCB's only. 0.0 ppm.
1	0.4-1.0 - FILL - Brown silt and gravel, some sand, asphalt fragments. Sample ID: SF-29-20-0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	602.65
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-30-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.3 - TOPSOIL - Brown SILT, some clay and organics, trace gravel, moist. Sample ID: SF-30-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm.
1	0.3-1.0 - SANDY SILT with trace Gravel - Gray/Brown, moist. Sample ID: SF-30-20- 0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/3/2020	**GROUND ELEVATION:**	602.65
DATE COMPLETED:	11/3/2020	**SAMPLER:**	Mike Gutmann/ T. Urban
SURFACE SAMPLE ID:	**SF-31-20**	**GEOLOGIST:**	Mike Gutmann

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.6 - TOPSOIL - Brown SILT, some clay and organics, trace gravel, moist. Sample ID: SF-31-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm.
1	0.6-1.0 - SILT with Gravel - Gray/Brown. Sample ID: SF-31-20- 0.0-1.0. Analyzed for SVOCs, metals and mercury. 0.0 ppm.
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.37
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-32-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
	0.0-0.3- BRICK
0.5	0.3-1.3- CONCRETE
1	
1.5	1.3-1.8- Brown, moist, clayey SILT with medium to course sand and gravel. Sample ID: SF-32-20-1.3-1.8. Analyzed for PCB's only. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/4/2020	**GROUND ELEVATION:**	601.76
DATE COMPLETED:	11/4/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-33-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Dark brown, moist TOPSOIL with fine gravel. Sample ID: SF-33-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm
1	0.5-1.0- Dark brown, moist TOPSOIL with large gravel. Sample ID: SF-33-20-0.0-1.0. Analyzed for SVOC's, metals and mercury. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/5/2020	**GROUND ELEVATION:**	601.32
DATE COMPLETED:	11/5/2020	**SAMPLER**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-34-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- Dark brown, moist TOPSOIL with fine gravel. Sample ID: SF-34-20-0.0-0.5. Analyzed for PCB's only 0.0 ppm
1	0.5-1.0- Dark brown, moist TOPSOIL with medium gravel. Sample ID: SF-34-20-0.0-1.0. Analyzed for SVOC's, metals and mercury. 0.0 ppm
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/10/2020	**GROUND ELEVATION:**	601.11
DATE COMPLETED:	11/10/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-35-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.8- CONCRETE
1	0.8-1.3- Brown, moist silty SAND. Sample ID: SF-35-20-0.8-1.3. Analyzed for PCB's only. 0.0 ppm
1.5	1.3-1.8- Brown, moist silty SAND with some clay. Sample ID: SF-35-20-1.3-1.8. Analyzed for SVOC's, metals and mercury. 0.0 ppm
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	11/5/2020	**GROUND ELEVATION:**	600.81
DATE COMPLETED:	11/5/2020	**SAMPLER:**	S. Connelly/ T. Urban
SURFACE SAMPLE ID:	**SF-36-20**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5- TOPSOIL with organics and fine to small gravel. Sample ID: SF-36-20-0.0-0.5. Analyzed for PCB's only. 0.0 ppm. Collected MS/ MSD and FD-110520-2
1	0.5-1.0- TOPSOIL with organics and small to large gravel. Sample ID: SF-36-20-0.0-1.0. Analyzed for SVOC's, metals and mercury. 0.0 ppm. Collected MS/ MSD and FD-110520-3
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-37-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-3.0: FILL - Loose Gravel/Cobbles some silty Sand and Gravel
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-37-21. Analyzed for PCBs only.

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-38-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.2: CONCRETE
1	
1.5	1.2-3.0: FILL - Brown/Gray Sand and Gravel
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-38-21. Analyzed for PCBs only.

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-39-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
	0.0-0.3: Red BRICK
0.5	0.3-1.2: CONCRETE
1	
1.5	1.2-2.0: FILL - Brown moist Silty Sand, trace to some Gravel
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-39-21. Analyzed for PCBs only.

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-40-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.1: BRICK and CONCRETE.
1	
1.5	1.1-3.0: FILL - Light red brown silty Sand, trace to some Gravel.
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-40-21. Analyzed for PCBs only.

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-41-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.0: FILL - Light red brown silty Sand, trace to some Gravel. Slight oil odor.
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-41-21. Analyzed for PCBs only.

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-42-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.0: BRICK and CONCRETE.
1	
1.5	1.0-3.0: FILL - Brown moist fine to coarse Sand and Gravel
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-42-21. Analyzed for PCBs only.

AECOM

Surface Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-43-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-1.2: BRICK and CONCRETE.
1	
1.5	1.2-3.0: FILL - Brown moist fine to coarse Sand and Gravel
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SF-43-21. Analyzed for PCBs only.

AECOM

Shallow Soil Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SB-94-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-0.5: TOPSOIL - Dark Brown w/ Organics (Roots)
1	0.5-1.75: CLAY
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample ID: SB-94-21. Analyzed for PCBs only.

AECOM

Shallow Soil Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SB-95-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-2.5: FILL - Red brown w/ Gray Mottled CLAY
1	
1.5	
2	
2.5	2.0-2.5: Gravel Subbase
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Shallow Soil Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SB-96-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-3.0: Dark brown Silty CLAY
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Shallow Soil Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SF-97-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-3.0: Dark brown Silty CLAY
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS:

AECOM

Shallow Soil Sample LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	AECOM	**LOCATION:**	Tonawanda, New York
DATE STARTED:	1/25/2022	**GROUND ELEVATION:**	Est. 600
DATE COMPLETED:	1/25/2022	**SAMPLER:**	S. Connelly
SURFACE SAMPLE ID:	**SB-98-21**	**GEOLOGIST:**	S. Connelly

DEPTH (FT)	DESCRIPTION
0.5	0.0-3.0: FILL - Loose Gravel/Cobbles some silty Sand and Gravel
1	
1.5	
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	

COMMENTS: Sample IDs: SB-98-21-1-2 & SB-98-21-2-2.5. Analyzed for PCBs, SVOCs & Arsenic.

APPENDIX G

CHIP SAMPLE LOG

Photo Log
DATE: Thursday, November 12th, 2020

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

TEMPERATURE: 40'S
WIND: MODERATE

SKIES: OVERCAST
PRECIPITATION: NONE

HEALTH AND SAFETY

Were there any changes to the Health and Safety Plan, Community Air Monitoring Plan, or Property-Specific Safety Plan? *Yes ☐ No ☒ N/A ☐
*If "yes", explain:

Were there any injuries, accidents, near-misses, or other safety concerns on this date? *Yes ☐ No ☒ N/A ☐
*If "yes", explain:

Were there any exceedances of action levels at on-site or perimeter dust monitoring locations on this date? Dust: *Yes ☐ No ☒ N/A ☐
*If "yes", explain:

Were there any exceedances of action levels at on-site or perimeter vibration monitoring locations on this date? Vibration: *Yes ☐ No ☒ N/A ☐
***If "yes", explain:**

Were there any breaches to containment structures or silt curtains or were any spills observed on this date? Erosion Control/Spills: *Yes ☐ No ☒ N/A ☐
*If "yes", explain:

Were there any complaints of dust, vibration, or other concerns from residents or others? *Yes ☐ No ☒ N/A ☐ **safety**
*If "yes", explain:

MATERIAL HANDLING

Were all vehicles that required decontamination properly decontaminated at the work or staging area? Yes ☐ *No ☐ N/A ☒
*If "no", explain:

DESCRIPTION OF WORK PERFORMED BY CONTRACTOR

AECOM personnel included Tom Urban, Sean Connelly, and David Cofield. Tom Urban and Sean Connelly collected concrete, brick or wood chip samples from five separate locations across the site. These locations were determined by previous site inspections along with the indication of any spills/ staining on any surfaces across the site. A Bosch Hammer Drill was used to drill into the locations in order to collect the chip samples. The samples collected will be used as a representative sample for a given area based on the extent of the staining. During all intrusive work, AECOM personnel David Cofield will be monitoring an upwind and downwind CAMP units.

Photo Log
DATE: Thursday, November 12th, 2020

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

AECOM personnel included Tom Urban, Sean Connelly, and David Cofield on site at 07:00.

Began collecting concrete, brick and wood samples and monitoring CAMP units at 07:45.

Completed collecting all concrete, brick, and wood samples at 15:45.

Entire crew offsite at 16:15.

PERSONNEL ON-SITE:

Tom Urban	AECOM	
Sean Connelly	AECOM	
David Cofield	AECOM	

VISITORS:

Name	Representing	Time (from – to)	Comments
None			

EQUIPMENT AT SITE:

Contractor	Equipment	Hours Logged
AECOM	Bosch Hammer Drill	8

Photographs are presented below

PREPARED BY: Sean Connelly TITLE: Field Geologist II

REVIEWED BY: Michael Gutmann TITLE: Project Manager

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #1:





BC-01-20 sample location. Staining on red brick. Representative area of 100' x 30'.

Photo #2:





CC-02-20 sample location. Representative area of 40' x 40'.

Photo #3:





CC-03-20 sample location. Representative area of 10' x 10'.

Photo #4:





CC-04-20 sample location w/ FD-111220-01. Representative area of 10' x 15'.

Photo #5:





BC-05-20 sample location. Yellow orange brick. Representative area of 100' x 30'.

Photo #6:





BC-06-20 sample location w/ FD-111220-02. Yellow orange brick. Representative area of 75' x 75'.

Photo #7:





CC-07-20 sample location. Representative area of 25' x 10'.

Photo #8:





CC-08-20 sample location. Representative area of 20' x 20'.

Photo #9:





CC-09-20 sample location. Representative area of 25' x 50'.

Photo #10:





CC-10-20 sample location. Representative area of 10' x 10'.

Photo #11:





BC-11-20 sample location. Dark orange yellow brick. Representative area of 10' x 5'.

Photo #12:





BC-12-20 sample location. Orange yellow brick. Representative area of 30' x 10'.

Photo #13:





BC-13-20 sample location. Orange yellow brick. Representative area of 12' x 20'.

Photo #14:





BC-14-20 sample location. Orange yellow brick. Representative area of 30' x 20'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #15:





BC-15-20 sample location. Orange yellow brick. Representative area of 30' x 40'.

Photo #16:





BC-16-20 sample location. Orange yellow brick. Representative area of 40' x 20'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 17





BC-17-20 sample location. Orange yellow brick. Representative area of 90' x 25'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 18





BC-18-20 sample location. Orange yellow brick. Representative area of 30' x 5'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 19



WC-19-20 sample location w/ FD-111220-03. Representative sample area of 20' x 10'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 20





CC-20-20 sample location. Representative sample area of 12' x 40'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 21





WC-21-20 sample location. Representative sample area of a 5' x 1' + 7' x 7' + 3' x 30'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 22





CC-22-20 sample location. Representative sample area of 30' x 80'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 23





BC-23-20 sample location. Orange yellow brick. Representative sample area of 50' x 30'.

Photo #:24





BC-24-20 sample location. Orange yellow brick. Representative sample area of 4' x 5'.

Tonawanda Forge
Concrete, brick and wood chip sample locations and representative sample areas
CONTRACTOR: AECOM USA, Inc.
NYSDEC SITE No. 915274 **NYSDEC CONTRACT No. D009803-24**

Photo #: 25





BC-25-20 sample location. Orange yellow brick. Representative sample area of 5' x 3'.

APPENDIX H

TEST PIT LOGS

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling, Inc.	**LOCATION:**	Tonawanda, NY
DATE STARTED:	12/8/2020	**GROUND ELEVATION:**	601.62
DATE COMPLETED:	12/8/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-02**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
1	0.0-0.8- CONCRETE
2	0.8-1.4- Dark brown, silty sand FILL with small to medium size rocks and pieces of slag throughout 0.0 ppm 1.4-1.9- Reddish brown, moist CLAY with grey mottling. 0.0 ppm
3	1.9-3.5- Dark brown, silty SAND with small to medium size rocks. 0.0 ppm. Water at 3.3' causing sides of test pit to begin to cave in. Took sample TP-2020-02-3.3-3.5 w/ MS/ MSD
4	End of Test Pit at 3.5' BGS
5	
6	
7	
8	
9	
10	
11	
12	



Pieces of slag present starting at 0.8 ft bgs



Red clay present at 1.4 ft bgs

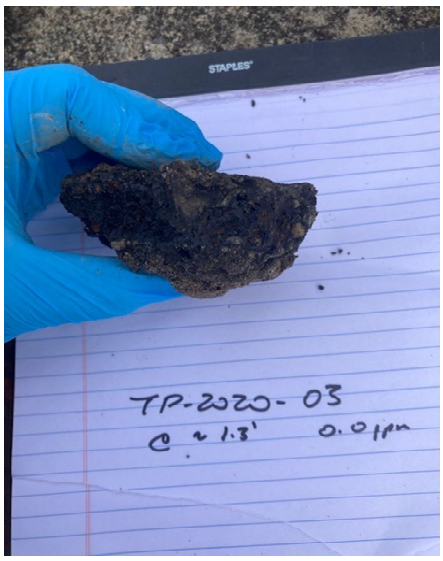
COMMENTS: TP-2020-02 total dimensions: 3' x 6' x 3.5'
Due to water pooling in test pit and causing the sides to collapse, excavation was halted at 3.5' and the test pit was backfilled.

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/8/2020	**GROUND ELEVATION:**	601.71
DATE COMPLETED:	12/8/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-03**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
	0.0 - 0.5 - CONCRETE
1	0.5 - 1.2 - GRAVEL. 2" crusher run sub base with broken bricks and debris (fill). 0.0 ppm
2	1.2 - 2.4 - Dark grey to brown silty sand FILL with rocks and cobbles. Small chunks of hardened clay with black staining at 1.3' on south side wall. 0.0 ppm. Took sample of black staining: TP-2020-03-1.3-1.5
3	2.4 - 3.3 - Dark grey becoming dark brown silty sand FILL with rocks and cobbles. 0.0 ppm. Water present at 2.7'
4	3.3 - 3.5 - Reddish brown, moist CLAY with grey mottling and desiccation cracks with some minor staining. 0.0 ppm
	Took sample TP-2020-03-3.3-3.5 w/ Field Duplicate FD-202008-1. End of Test Pit at 3.5' BGS
5	
6	
7	
8	
9	
10	
11	
12	



Black staining at 1.3 ft bgs.



Water present at 2.7 ft bgs.

COMMENTS: TP-2020-03 total dimensions: 3' x 6' x 3.5'

Due to water pooling in test pit and causing the sides to collapse, excavation was halted at 3.5' and the test pit was backfilled

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/9/2020	**GROUND ELEVATION:**	602.18
DATE COMPLETED:	12/9/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-04**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
1	0.0- 0.8- Grey, 2" crusher run FILL. 0.0 ppm
2	0.8- 2.5- Brown, moist, medium to course SAND with small to medium gravel and cobbles. 0.0 ppm
3	2.5- 4.3- Reddish brown, moist CLAY with grey mottling. 0.0 ppm. Took sample TP-2020-04-4.0- 4.3
4	Water present at 3.3' bgs
5	End of Test Pit at 4.3' bgs due to hard solid sub base, possible concrete slab.
6	
7	
8	
9	
10	
11	
12	Reddish brown clay at 2.5 ft bgs.



Total depth at 4.3 ft bgs.

COMMENTS: Due to solid sub base, possible concrete at bottom of test pit, excavation was halted at 4.3' and the test pit was backfilled.

TP-2020-04 total dimensions: 2.8' x 8.0' x 4.3'

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/9/2020	**GROUND ELEVATION:**	601.65
DATE COMPLETED:	12/9/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-05**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
1	0.0-1.1- CONCRETE reinforced with rebar.
2	1.1- 1.5- 2" crusher run FILL sub base. 0.0 ppm 1.5- 2.0- Brown, moist, medium to course sandy FILL with small to medium gravel and rocks. 0.0 ppm
3	2.0- 2.4- Grey, wet, fine to medium SAND with some gravel. 0.0 ppm. Water present at 2.4' bgs. 2.4- 3.0- Reddish brown, moist CLAY with grey mottling. 0.0 ppm. Took sample TP-2020-05- 2.4- 3.0
4	End of Test Pit at 3.0' bgs.
5	
6	
7	
8	
9	
10	
11	
12	



Reddish brown CLAY present at 2.4 ft bgs.



Water present at 2.4 ft bgs

COMMENTS: TP-2020-05 total dimensions: 3.6' x 7.0' x 3.0'

Due to water pooling in test pit and causing the sides to collapse, excavation was halted at 3.0' and then test pit was backfilled.

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling, Inc.	**LOCATION:**	Tonawanda, NY
DATE STARTED:	12/8/2020	**GROUND ELEVATION:**	602.03
DATE COMPLETED:	12/8/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-06A**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
	0.0-0.4- Single layer of reddish yellow BRICK with very strong odor between brick and underlying mortar. 0.0 ppm. Took sample TP-2020-06A-0.4-0.5
1	0.4- 1.2- Reinforced CONCRETE with wire mesh and rebar.
2	1.2- 2.6- Brown, moist silty sand FILL with small to medium gravel and rocks with slag present. 0.0 ppm
3	2.6- 6.0- Reddish brown CLAY with grey mottling with chunks of slag at 2.9' bgs. Water present at 3.0' bgs on NW corner of test pit.
4	
5	
6	
7	End of Test Pit at 6.0' bgs.
8	
9	
10	
11	
12	



Slag present at 2.6 ft bgs



Total depth reached at 6 ft bgs

COMMENTS: Due to a 4" extruding concrete footer running the length of the east side of the test pit, the entire test pit was moved over roughly 10" to the west to make room for the excavator bucket.

TP-2020-6A total dimensions: 2.3' x 7' x 6.0'

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/9/2020	**GROUND ELEVATION:**	601.96
DATE COMPLETED:	12/9/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-06D**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
1	0.0- 2.4- Black, moist sandy silt FILL with small to medium rocks and concrete and brick debris with vegetation and small tree roots. 0.0 ppm
2	
3	2.4- 4.7- Red brownish moist CLAY with black organic staining, no odor. 0.0 ppm. Water present at 4.5' bgs.
4	
5	4.7- 4.8- Red brownish moist CLAY with tar/ oil staining. Strong odor. 0.5 ppm. Took full TCLP sample TP-2020-06D-4.7-4.8
6	End of Test Pit at 4.8' bgs.
7	
8	
9	
10	
11	
12	



Black staining present at 4.7 ft bgs.



Sheen visible on pooling water

COMMENTS: TP-2020-6D total dimensions: 3' x 6' x 4.8'

Attempted to excavate TP-2020-06B and 06C however were unsuccessful due to the presence of an underground vault roughly 1.2' bgs.

Due to solid sub base, possible concrete at bottom of test pit, excavation was halted at 4.8' and the test pit was backfilled.

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/9/2020	**GROUND ELEVATION:**	601.86
DATE COMPLETED:	12/9/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-07**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
	0.0- 0.4- Single layer of yellow reddish BRICK.
1	0.4-1.6- CONCRETE slab with rebar reinforcement.
2	1.6- 1.9- 2" Crusher run FILL sub base. 0.0 ppm
	1.9- 2.8- Dark brown, moist fine to medium sandy FILL with small to medium rocks and gravel. 0.0 ppm
3	2.8- 3.3- Dark brown, moist, fine to medium sandy FILL with small to medium rocks and gravel with heavy staining and strong odor.
	PID hits ranging from 1.2 to 5.0 ppm. Pooling water present at 3.0' bgs with heavy sheen. Took sample TP-2020-07-2.8-3.3
4	3.3- 4.6- Dark brown, saturated, fine to medium sandy FILL with small to medium rocks and gravel with heavy sheen on water.
5	End of Test Pit at 4.6' bgs
6	 
7	
8	
9	
10	**Left**: Black staining at 2.8 ft bgs. **Right**: Sample TP-2020-07-2.8-3.3
11	
12	Pooling water with heavy sheen

COMMENTS: TP-2020-07 total dimensions: 2.8' x 12' x 4.6'

Due to water pooling in test pit and causing the sides to collapse, excavation was halted at 4.6' and then test pit was backfilled.

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/7/2020	**GROUND ELEVATION:**	601.94
DATE COMPLETED:	12/7/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-08**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
	0.0 - 0.8 - CONCRETE
1	0.8 - 1.35 - Gravel FILL. 2" crusher run sub base. 0.0 ppm
	1.35 - 1.5 - Black, moist, fine to medium silty SAND with little staining. 0.0 ppm. Took sample TP-2020-08-1.35-1.5
2	1.5 - 3.4 - Reddish brown, moist CLAY with grey mottling and desiccation cracks. At 2.5', black smear of impacted soil.
3	0.0 ppm. Took sample TP-2020-08-2.3 -2.5
4	3.4 - 3.8 - Black, very moist, fine to medium sandy FILL on south side of test pit. Surrounded by re-grated silty CLAY. 0.0 ppm
5	3.8 - 6.0 - Reddish brown, moist CLAY with grey mottling and desiccation cracks. 0.0 ppm
6	
7	End of Test Pit at 6' BGS
8	
9	
10	
11	
12	



Sample TP-2020-08-1.35-1.5



Black staining at 2.5 ft bgs

COMMENTS: TP-2020-08 located 2.5' south of MH-59

TP-2020-08 total dimensions: 3' x 11' x 6'

AECOM

TEST PIT LOG

PROJECT:	Tonawanda Forge		Sheet 1 of 1
CLIENT:	NYSDEC	**JOB NUMBER:**	60633654
CONTRACTOR:	Nothnagle Drilling Inc.	**LOCATION:**	Tonawanda NY
DATE STARTED:	12/10/2020	**GROUND ELEVATION:**	601.49
DATE COMPLETED:	12/10/2020	**OPERATOR:**	Kevin Busch
TRENCH NUMBER:	**TP-2020-09**	**GEOLOGIST:**	Sean P. Connelly

DEPTH (FT)	DESCRIPTION
	0.0-0.2- Black, moist, silty FILL with small to medium size gravel and vegetation/ small roots. 0.0 ppm. Took sample TP-2020-09- 0.0- 0.2
1	0.2- 3.2- Dark grey to black, 1" crusher run FILL with black, medium to course sand. 0.0 ppm
2	Water present at 2.2' bgs
3	
4	3.2- 4.3- Pea gravel FILL. Perforated 4" PVC drain pipe running along north side of test pit along concrete footer. 0.0 ppm
5	End of test pit at 4.3' bgs.
6	
7	
8	
9	
10	
11	
12	



0.2 - 3.2 - 1" Crusher run fill



Water flooding test pit with 4" PVC Drain pipe

COMMENTS: TP-2020-09 total dimensions: 4.0' x 13.0' x 4.3'

Took TP- 2020- 09- 0.0- 0.2 sample from top layer due to silty matrix containing the most organics. All other layers contained matrixes composed almost entirely of stone.

Due to solid sub base, possible concrete at bottom of test pit, excavation was halted at 4.3' and the test pit was backfilled.

APPENDIX I

PURGE LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-MW-E

Date: 1/10/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 2.09 Depth to Well Bottom (ft): 18.81 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (gallons): 2.73 Estimated Purge Volume (gallons): 2.5

Sample ID: AOC-16-MW-E Sample Time: 1130 QA/QC: MS/MSD

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1055	7.22	11.9	2.235	1.17	24.70	-106.7	250	4.73
1100	7.33	12.1	1.910	0.96	18.20	-103.7	250	4.94
1105	7.43	12.2	1.160	3.96	89.40	-39.7	250	5.68
1110	7.59	12.2	0.767	6.47	38.40	-19.0	250	6.31
1115	7.67	12.2	0.725	6.63	32.70	-17.2	250	6.61
1120	7.65	12.1	0.768	6.26	25.40	-24.3	250	7.12
1125	7.67	12.1	0.806	5.50	19.00	-30.1	250	7.41
1130	7.69	12.2	0.857	4.56	17.70	-29.1	250	7.82
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-PZ-C

Date: 1/10/2022 Sampling Personnel: M. Gutmann/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 1.72 Depth to Well Bottom (ft): 10.03 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (gallons): 1.35 Estimated Purge Volume (gallons): 2.0

Sample ID: AOC-16-PZ-C Sample Time: 1117 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1037	6.64	7.9	3.083	1.83	4.04	21.7	185	2.10
1041	6.72	7.6	3.019	0.87	5.84	4.4	185	2.40
1046	6.75	9.3	2.975	0.69	12.71	-12.1	185	4.54
1051	6.77	8.4	2.989	0.64	14.10	-13.5	185	4.89
1055	6.78	8.5	2.981	0.63	16.01	-9.7	185	5.41
1100	6.78	8.6	2.980	0.66	16.45	-6.6	185	5.61
1105	6.77	8.7	3.009	0.51	5.55	-3.2	185	5.65
1110	6.77	8.8	3.011	0.48	6.07	-3.2	185	5.74
1115	6.78	8.8	3.009	0.45	6.77	-3.4	185	6.21
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-PZ-D

Date: 1/10/2022 Sampling Personnel: M. Gutmann/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 1.61 Depth to Well Bottom (ft): 10.70 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 5.61 Estimated Purge Volume (liters): 2.0

Sample ID: AOC-16-PZ-D Sample Time: 1300 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1221	7.00	8.9	2.852	0.75	12.41	-34.1	185	1.61
1226	6.97	8.4	2.827	0.64	12.11	-38.4	185	2.25
1230	6.94	8.3	2.845	0.53	12.47	-41.9	185	3.10
1235	6.91	8.6	2.809	1.17	19.56	-42.8	185	4.21
1240	6.92	8.5	2.809	0.42	39.21	-45.4	185	6.15
1245	6.91	8.6	2.850	0.27	9.04	-48.4	185	6.24
1250	6.91	8.7	2.866	0.19	10.27	-48.8	185	6.41
1255	6.91	8.9	2.898	0.18	9.91	-48.3	185	6.54
1300	-6.91	8.8	2.861	0.16	9.77	-48.2	185	6.69
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-PZ-A

Date: 1/10/2022 Sampling Personnel: M. Gutmann/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 0.21 Depth to Well Bottom (ft): 9.90 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 5.98 Estimated Purge Volume (liters): 8.0

Sample ID: AOC-16-PZ-A Sample Time: 1430 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1355	7.88	5.4	0.346	3.24	22.10	107.3	185	0.21
1400	7.75	4.9	0.367	2.89	29.10	106.3	185	2.15
1405	7.62	6.2	0.329	2.48	16.30	100.3	185	3.82
1410	7.57	6.9	0.324	2.83	11..68	96.4	185	4.99
1415	7.57	7.2	0.374	1.57	8.89	88.9	185	5.26
1420	7.57	6.8	0.455	0.59	4.81	64.7	185	6.14
1425	7.57	6.9	0.460	0.56	3.74	48.2	185	6.23
1430	7.58	7.4	0.472	0.45	3.18	-42.0	185	6.89
1430	7.59	7.2	0.439	0.40	3.13	-42.4	185	6.94
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-MW-H

Date: 1/10/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	HDPE		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	3.29	Depth to Well Bottom (ft):	18.79	Well Diameter (in):	2	Screen Length (ft):	
Casing Type:	PVC			Volume in 1 Well Casing (liters):	9.56		Estimated Purge Volume (liters):	9.5	

Sample ID: AOC-16-MW-H Sample Time: 1430 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1336	6.96	12.6	1.732	3.78	79.40	-52.8	250	4.09
1341	6.98	12.5	1.583	1.90	152.70	-43.6	250	5.68
1346	7.00	12.0	1.549	1.93	81.00	-43.3	250	7.58
1351	7.01	11.8	1.537	1.90	36.50	-47.3	250	9.22
1356	7.01	11.4	1.539	1.89	26.80	-53.1	250	9.45
1401	7.02	11.5	1.519	1.87	13.90	-52.2	250	10.26
1406	7.02	11.8	1.511	1.89	17.60	-51.7	250	11.01
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-05-PZ-06

Date: 1/10/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): -- Depth to Well Bottom (ft): 9.90 Well Diameter (in): 1 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): <1 Estimated Purge Volume (liters): 1.0

Sample ID: AOC-05-PZ-06 Sample Time: 111/22 @ 0949 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1520	12.55	5.8	4.759	6.07	523.28	-19.6	185	5.63
1525	12.70	2.5	5.081	10.35	399.21	-32.4	--	Dry
1530	12.79	2.2	5.079	12.39	386.65	-41.9	--	Dry
1/11/22								6.95
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-05-MW-04S

Date: 1/10/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.09 Depth to Well Bottom (ft): 10.09 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.09 Estimated Purge Volume (liters): 3.8

Sample ID: AOC-05-MW-04S Sample Time: 1558 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1533	7.66	5.3	2.173	6.51	1.10	-3.5	150	5.69
1538	7.62	4.3	2.202	5.38	1.60	-31.8	150	6.53
1543	7.60	3.8	2.205	5.27	0.00	-36.5	150	7.01
1548	7.57	4.1	2.198	4.70	0.00	-42.0	150	7.19
1553	7.53	4.0	2.196	3.73	0.00	-52.7	150	7.42
1558	7.49	4.1	2.192	2.57	0.00	-64.0	150	7.72
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-03-PZ-09

Date: 1/10/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.53 Depth to Well Bottom (ft): 10.18 Well Diameter (in): 1 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 0.72 Estimated Purge Volume (liters): 5.0

Sample ID: AOC-03-PZ-09 Sample Time: 1635 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1615	8.90	4.7	0.293	5.78	22.06	83.2	150	5.67
1620	8.82	4.8	0.290	5.52	14.69	76.2	150	5.67
1625	8.63	4.8	0.290	3.97	7.95	70.6	150	5.67
1630	8.50	4.8	0.290	3.82	4.72	75.2	150	5.67
1632	8.35	5.0	0.269	3.08	4.15	77.1	150	5.67
1635	8.39	4.9	0.290	2.99	3.99	78.3	150	5.67
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-03-MW-05I

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.32 Depth to Well Bottom (ft): 22.83 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 10.80 Estimated Purge Volume (liters): 7.5

Sample ID: AOC-03-MW-05I Sample Time: 0954 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 0922

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0924	7.63	10.9	3.063	3.60	6.03	91.4	250	6.12
0929	7.45	10.4	3.085	2.19	5.57	98.1	250	7.69
0934	7.40	10.5	3.087	2.10	4.72	102.5	250	9.08
0939	7.39	10.4	3.085	2.05	5.48	105.6	250	10.92
0944	7.38	10.4	3.091	2.00	5.57	107.4	250	11.93
0949	7.38	10.9	3.086	2.04	7.01	108.2	250	13.25
0954	7.37	11.2	3.083	1.87	3.64	107.8	250	13.30
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Well lock cut off.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-PZ-B

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 7.44 Depth to Well Bottom (ft): 12.69 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 3.24 Estimated Purge Volume (liters): 7.5

Sample ID: AOC-16-PZ-B Sample Time: 1159 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1118

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1118	7.61	8.2	1.495	5.90	2.97	121.3	250	8.30
1123	7.31	9.0	1.463	4.31	1.83	121.3	250	8.53
1128	7.15	9.2	1.464	3.10	1.60	122.0	250	8.97
1133	7.09	9.1	1.466	2.65	1.71	121.4	250	9.39
1138	7.12	7.3	1.461	6.42	2.61	127.6	250	9.62
1143	7.07	7.3	1.465	3.42	1.46	127.4	250	9.90
1148	7.02	9.4	1.470	3.52	4.44	126.9	250	10.09
1154	7.21	6.6	1.468	8.27	3.54	132.1	Going	Dry
1159	7.27	4.9	1.495	7.78	3.53	132.8	--	10.21
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Limited Sample Volume

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-03-MW-04I

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.12 Depth to Well Bottom (ft): 22.32 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 10.61 Estimated Purge Volume (liters): 9.6

Sample ID: AOC-03-MW-04I Sample Time: 1204 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1126

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1129	7.12	7.3	3.283	4.32	5.90	-42.9	300	5.81
1134	7.17	11.4	3.293	3.21	3.90	-54.6	300	7.22
1139	7.18	11.3	3.296	3.19	2.70	-55.6	300	8.51
1144	7.19	11.2	3.293	3.19	1.90	-22.6	300	10.06
1149	7.19	11.0	3.298	3.12	1.10	-22.1	250	11.31
1154	7.18	10.8	3.296	3.04	0.00	-57.8	250	12.39
1159	7.19	11.0	3.299	3.00	0.00	-58.0	250	12.74
1204	7.19	10.6	3.292	2.94	0.00	-52.2	250	13.06
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-PZ-07

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.84 Depth to Well Bottom (ft): 7.02 Well Diameter (in): 1 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 0.34 Estimated Purge Volume (liters): 3.8

Sample ID: AOC-16-PZ-07 Sample Time: 1415 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @1352

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1355	7.76	2.9	6.522	1.21	7.93	106.1	150	4.93
1400	7.62	3.1	0.487	2.46	2.46	130.6	150	4.92
1405	7.57	3.0	0.479	1.76	1.76	139.9	150	4.95
1410	7.55	3.2	0.476	1.66	1.66	146.9	150	4.94
1415	7.54	3.3	0.473	1.49	1.49	152.4	150	4.95
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Slight sulfur odor

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-03-PZ-10

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.41 Depth to Well Bottom (ft): 10.16 Well Diameter (in): 1 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 0.88 Estimated Purge Volume (liters): 3.8

Sample ID: AOC-03-PZ-10 Sample Time: 1444 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @1407

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1409	8.31	5.6	0.631	4.06	97.40	-177.5	150	8.39
1414	8.28	4.9	0.480	2.81	2.90	-157.9	150	8.21
1419	8.27	4.8	0.477	2.75	2.20	-158.0	150	7.98
1424	8.26	5.1	0.452	2.48	6.50	-157.8	150	8.51
1429	8.18	5.4	0.479	4.44	8.70	-139.5	150	9.31
1434	8.17	5.2	0.481	4.61	7.20	-138.1	150	9.59
1439	8.14	5.1	0.477	5.70	7.80	-129.1	150	8.99
1444	8.15	5.0	0.474	5.66	7.60	-129.8	150	8.81
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: LNAPL @ 4.41, water at 5.19. Will purge out LNAPL first without parameters

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-16-PZ-08

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.56 Depth to Well Bottom (ft): 10.16 Well Diameter (in): 1 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 0.88 Estimated Purge Volume (liters): 3.8

Sample ID: AOC-16-PZ-08 Sample Time: 1552 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @1518

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1522	7.33	2.9	0.475	1.66	26.79	-76.0	150	7.11
1527	7.29	2.4	0.537	2.19	10.36	-81.3	150	7.27
1532	7.27	3.4	0.556	2.63	5.61	-81.9	150	8.69
1537	7.27	3.7	0.555	3.64	4.71	-75.3	150	8.82
1542	7.26	3.4	0.557	3.91	20.75	-72.2	150	8.76
1547	7.26	2.9	0.560	3.99	10.86	-71.8	150	8.91
1552	7.27	2.6	0.553	4.29	6.20	-71.4	150	9.42
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Slight sheen, limited sample volume

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-02-MW-3S

Date: 1/11/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.11 Depth to Well Bottom (ft): 9.83 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 3.33 Estimated Purge Volume (liters): 14.4

Sample ID: AOC-02-MW-3S Sample Time: 1620 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @1543

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1545	7.83	5.7	0.404	4.83	81.40	-104.1	250	5.11
1550	7.76	6.4	0.402	1.36	30.80	-131.7	250	5.11
1555	7.78	6.4	0.403	0.76	16.50	-145.5	250	5.11
1600	7.78	6.3	0.403	0.64	8.70	-150.8	250	5.11
1605	7.79	6.4	0.403	0.54	5.00	-155.9	250	5.11
1610	7.79	6.4	0.404	0.45	6.20	-161.4	250	5.11
1615	7.79	6.5	0.403	0.42	5.80	-164.4	250	5.11
1620	7.79	6.7	0.404	0.35	4.70	-167.0	250	5.11
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Slight sheen and petro odor

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-23I

Date: 1/12/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.75 Depth to Well Bottom (ft): 27.08 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 13.17 Estimated Purge Volume (liters): 13.2

Sample ID: AOC-01-MW-23I Sample Time: 1620 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @1543

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0931	7.08	8.4	5.385	5.10	154.59	-72.3	300	6.58
0936	6.99	8.9	5.469	0.98	110.97	-104.4	300	7.69
0941	7.01	8.7	5.400	0.77	69.08	-96.5	300	8.84
0946	7.12	8.7	5.321	2.09	40.11	-68.2	300	10.03
0951	7.22	8.6	5.259	4.14	36.98	-51.0	300	11.18
0956	7.23	8.8	5.248	4.63	25.69	-48.9	300	12.33
1001	7.25	8.3	5.249	4.78	24.13	-48.6	300	13.37
1006	7.24	8.3	5.252	4.82	20.77	-49.2	300	13.66
1011	7.24	8.6	5.238	4.79	17.52	-49.9	300	14.54
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-12S

Date: 1/12/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.62 Depth to Well Bottom (ft): 10.09 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 2.76 Estimated Purge Volume (liters): 11.0

Sample ID: AOC-01-MW-12S Sample Time: 1620 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 0945

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0946	7.70	6.3	0.776	2.84	122.90	1.4	200	5.62
0951	7.51	6.3	0.779	0.42	52.20	-52.6	200	5.62
0956	7.53	6.4	0.747	0.24	78.40	-110.9	200	5.62
1001	7.58	6.4	0.729	0.20	50.60	-120.0	200	5.62
1006	7.61	6.4	0.716	0.16	21.80	-136.8	200	5.62
1011	7.66	6.4	0.698	0.12	8.90	-141.8	200	5.62
1016	7.67	6.4	0.697	0.09	7.30	-143.5	200	5.62
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Slight sheen

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-12I

Date: 1/12/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.95 Depth to Well Bottom (ft): 25.28 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 11.35 Estimated Purge Volume (liters): 13.25

Sample ID: AOC-01-MW-12I Sample Time: 1210 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @1113

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1115	7.34	9.2	7.212	4.39	27.00	-8.0	275	7.53
1120	7.23	9.4	7.119	2.14	29.50	-27.3	275	8.96
1125	7.11	9.5	6.948	0.08	32.80	-46.1	275	10.05
1130	7.00	9.7	6.863	0.20	35.30	-53.7	250	11.25
1135	7.03	9.2	6.374	0.17	40.00	-57.3	250	12.26
1140	7.08	9.4	5.678	0.45	51.40	-57.9	250	13.07
1145	7.17	9.6	4.988	3.96	51.10	-40.1	250	14.08
1150	7.27	9.4	4.540	4.32	58.00	-17.9	250	14.89
1155	7.34	9.4	4.357	5.29	59.20	-7.0	250	15.53
1200	7.36	9.2	4.348	5.47	62.50	0.7	250	15.63
1205	7.38	9.4	4.373	5.41	63.50	3.8	250	15.64
1210	7.36	9.4	4.382	5.40	63.90	4.0	250	15.66
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Needs new lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-11I

Date: 1/12/2022 Sampling Personnel: P. Fairbanks/ S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 8.32 Depth to Well Bottom (ft): 22.70 Well Diameter (in): 2 Screen Length (ft): 10

Casing Type: PVC Volume in 1 Well Casing (liters): 8.86 Estimated Purge Volume (liters): 9.46

Sample ID: AOC-01-MW-11I Sample Time: 1252 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1212	7.18	8.9	5.353	2.75	2.10	-103.1	200	9.17
1217	7.09	8.6	5.214	0.69	6.95	-113.1	200	9.99
1222	7.08	8.7	4.982	0.50	11.03	-117.1	200	10.98
1227	7.07	8.6	4.506	0.56	21.02	-118.7	200	11.83
1232	7.09	8.5	4.531	1.27	15.10	-106.7	200	12.61
1237	7.14	8.2	4.334	2.77	9.32	-83.2	200	13.03
1242	7.15	8.2	4.310	3.03	8.76	-79.1	200	13.09
1247	7.15	8.3	4.305	3.11	8.01	-76.8	200	13.23
1252	7.15	8.4	4.340	3.08	7.49	-76.0	200	13.59
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-15S

Date: 1/12/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.33 Depth to Well Bottom (ft): 9.80 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.37 Estimated Purge Volume (liters): 10.00

Sample ID: AOC-01-MW-15S Sample Time: 1335 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1252

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1255	7.12	6.8	1.835	0.85	25.80	-82.3	250	4.73
1300	7.04	6.9	1.793	0.42	32.70	-96.8	250	4.91
1305	7.05	6.5	1.607	0.26	26.00	-108.7	250	4.99
1310	7.09	6.0	1.599	0.21	14.80	-107.4	250	4.99
1315	7.13	5.6	1.372	0.17	10.90	-106.5	250	5.12
1320	7.21	5.2	1.186	0.12	7.80	-106.7	250	5.27
1325	7.26	5.1	0.914	0.09	2.70	-106.3	250	5.34
1330	7.26	4.9	0.910	0.08	1.70	-107.1	250	5.38
1335	7.26	4.9	0.900	0.07	1.50	-107.2	250	5.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-11S

Date: 1/12/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.80 Depth to Well Bottom (ft): 10.00 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.21 Estimated Purge Volume (liters): 4.00

Sample ID: AOC-01-MW-11S Sample Time: 1450 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1410	7.39	5.5	1.471	2.44	18.42	-154.7	100	4.84
1415	7.26	5.3	1.402	0.79	16.78	-142.3	100	4.84
1420	7.22	5.4	1.372	0.49	15.75	-144.3	100	4.84
1425	7.24	5.2	1.293	0.42	16.82	-147.4	100	4.84
1430	7.30	5.2	1.111	0.32	1.25	-157.6	100	4.85
1435	7.32	5.2	1.103	0.24	0.00	-164.3	100	4.84
1440	7.33	5.1	0.960	0.24	0.00	-167.7	100	4.84
1445	7.33	5.1	0.939	0.21	0.00	-169.3	100	4.86
1450	7.33	5.0	0.927	0.19	0.00	-170.4	100	4.85
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: MW-22I

Date: 1/12/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.81 Depth to Well Bottom (ft): 25.36 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 12.68 Estimated Purge Volume (liters): 10.50

Sample ID: MW-22I Sample Time: 1606 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1530

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1531	7.36	10.5	7.574	5.01	39.60	-116.0	300	5.24
1536	7.12	11.7	8.051	3.36	35.50	-113.2	300	7.43
1541	7.10	11.7	8.055	3.44	32.50	-111.3	300	9.13
1546	7.09	11.7	8.055	3.41	36.20	-107.8	300	11.28
1551	7.09	11.5	8.034	3.35	41.50	-105.4	300	13.49
1556	7.09	11.4	8.054	3.22	47.30	-103.5	300	14.51
1601	7.08	11.4	8.052	3.20	45.10	-107.9	300	15.41
1606	7.08	11.4	8.063	3.20	46.90	-107.5	300	16.02
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new well lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: MW-22S

Date: 1/12/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 2.76 Depth to Well Bottom (ft): 10.70 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 4.90 Estimated Purge Volume (liters): 8.75

Sample ID: MW-22S Sample Time: 1504 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1428

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1429	7.42	6.7	4.308	4.72	32.90	-2.7	250	3.09
1434	7.41	6.4	4.379	3.76	26.80	-5.1	250	3.09
1439	7.42	5.7	4.196	2.80	10.20	-6.2	250	3.09
1444	7.46	5.3	3.405	1.80	4.50	-23.7	250	3.09
1449	7.53	5.2	2.402	1.00	3.80	-114.3	250	3.09
1454	7.66	5.0	1.903	0.63	2.40	-154.3	250	3.09
1459	7.69	4.8	1.815	0.31	2.00	-161.6	250	3.09
1504	7.78	4.8	1.799	0.28	1.90	-172.8	250	3.09
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new well lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-14S

Date: 1/12/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.95 Depth to Well Bottom (ft): 10.58 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.47 Estimated Purge Volume (liters): 3.00

Sample ID: AOC-01-MW-14S Sample Time: 1604 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1534	6.99	5.7	1.946	1.79	6.52	-105.7	100	5.02
1539	6.94	5.5	1.880	0.68	4.20	-118.4	100	5.00
1544	7.04	4.9	1.408	0.52	7.44	-126.4	100	5.01
1549	7.16	4.5	1.087	0.44	1.60	-137.9	100	5.01
1554	7.18	4.4	1.018	0.37	0.00	-148.8	100	5.02
1559	7.19	4.3	1.003	0.32	0.00	-154.9	100	5.00
1604	7.19	4.2	1.002	0.31	0.00	-156.9	100	5.00
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new well lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-10S

Date: 1/13/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.04 Depth to Well Bottom (ft): 10.09 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.73 Estimated Purge Volume (liters): 8.32

Sample ID: AOC-01-MW-10S Sample Time: 1220 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Started purge @ 1135

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1135	7.83	6.3	1.165	3.85	19.11	36.5	185	4.14
1140	7.55	6.5	1.049	2.69	11.00	2.2	185	4.16
1145	7.46	6.5	0.937	1.66	5.51	-49.3	185	4.12
1150	7.42	6.2	0.894	1.30	4.84	-73.5	185	4.10
1155	7.41	6.2	0.871	1.19	4.85	-79.5	185	4.14
1200	7.39	6.3	0.858	0.97	3.71	-84.0	185	4.12
1205	7.41	6.3	0.820	0.81	3.45	-90.1	185	4.12
1210	7.42	6.4	0.783	0.69	3.57	-97.0	185	4.13
1215	7.43	6.4	0.752	0.59	3.40	-101.6	185	4.14
1220	7.45	6.3	0.723	0.59	3.10	-105.4	185	4.13
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Needs new well lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-10I

Date: 1/13/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.12 Depth to Well Bottom (ft): 22.42 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 10.06 Estimated Purge Volume (liters): 11.25

Sample ID: AOC-01-MW-10I Sample Time: 1051 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Started purge @ 1000

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1001	7.12	10.3	6.338	1.41	24.22	-23.9	225	7.21
1006	6.94	10.2	6.292	0.40	26.46	-51.1	225	8.33
1011	6.95	10.2	5.918	0.28	35.66	-61.5	225	9.44
1016	6.97	9.8	5.563	0.29	48.45	-68.4	225	10.43
1021	7.01	9.7	5.103	0.74	51.08	-68.5	225	10.40
1026	7.13	9.8	4.760	2.24	65.79	-45.7	225	12.40
1031	7.29	9.5	4.354	3.80	67.62	-20.9	225	12.68
1036	7.32	9.5	4.231	4.45	91.58	-11.3	225	12.87
1041	7.30	9.4	4.275	4.62	52.23	-9.3	225	13.09
1046	7.31	9.7	4.274	4.57	54.53	-7.9	225	13.26
1051	7.30	9.8	4.272	4.44	54.95	-6.8	225	13.46
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new well lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-13I

Date: 1/13/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	HDPE		Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	6.62	Depth to Well Bottom (ft):	23.00	Well Diameter (in):	2	Screen Length (ft):	
Casing Type:	PVC			Volume in 1 Well Casing (liters):	10.11		Estimated Purge Volume (liters):	12.00	

Sample ID: AOC-01-MW-13I Sample Time: 1206 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1104

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1106	7.23	9.0	7.267	4.48	0.00	-75.7	250	7.16
1111	7.13	9.6	7.283	0.88	0.00	-103.6	250	8.61
1116	7.14	9.7	6.849	0.82	4.50	-106.3	200	10.18
1121	Met w/ Courier						200	NM
1126							200	NM
1131							200	NM
1136							200	NM
1141							200	NM
1146							200	NM
1151							200	NM
1156	7.17	9.4	6.526	2.38	18.40	-92.1	200	14.61
1201	7.16	9.4	6.528	2.36	18.80	-92.9	200	14.83
1206	7.16	9.4	6.523	2.33	18.60	-93.3	200	15.09
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new lock
NM= Not Measured

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-13S

Date: 1/13/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.33 Depth to Well Bottom (ft): 10.10 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 2.94 Estimated Purge Volume (liters): 7.50

Sample ID: AOC-01-MW-13S Sample Time: 1457 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 0958

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0959	7.44	6.5	2.205	6.47	87.30	-163.4	250	5.98
1004	7.46	5.8	1.548	3.04	60.50	-117.1	250	6.76
1009	7.49	5.6	1.265	3.29	44.50	-103.5	250	6.76
1014	7.44	5.5	1.211	1.46	0.00	-126.5	250	6.95
1019	7.49	5.4	1.178	0.66	0.00	-139.5	250	7.28
1024	7.39	5.4	1.183	0.54	0.00	-143.5	250	7.61
1029	7.42	5.7	1.197	0.45	0.00	-146.2	250	7.91
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-01-MW-17I

Date: 1/13/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 10.92 Depth to Well Bottom (ft): 25.31 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 8.88 Estimated Purge Volume (liters): 10.13

Sample ID: AOC-01-MW-17I Sample Time: 1430 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1345	7.25	10.9	1.835	2.61	34.71	-31.6	225	11.74
1350	7.10	11.3	1.892	2.73	34.03	-29.8	225	12.69
1355	7.13	11.4	1.890	3.06	32.16	-3.9	225	13.68
1400	7.13	11.7	1.889	3.11	38.24	7.5	225	14.61
1405	7.13	11.3	1.895	3.00	42.92	2.2	225	15.44
1410	7.13	11.4	1.895	3.04	45.13	8.9	225	15.60
1415	7.14	10.9	1.896	3.08	40.95	22.3	225	15.62
1420	7.13	11.0	1.899	2.83	32.04	30.5	225	15.63
1425	7.09	11.0	1.904	2.34	24.03	33.5	225	15.58
1430	7.06	10.9	1.909	1.80	17.00	30.3	225	15.54
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: MW-J

Date: 1/13/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 7.01 Depth to Well Bottom (ft): 37.76 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 18.97 Estimated Purge Volume (liters): 22.00

Sample ID: MW-J Sample Time: 1457 QA/QC: FD-20220113-1

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1335

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1337	7.37	10.1	3.169	3.83	2.80	-192.9	250	7.93
1342	7.16	10.7	3.101	1.20	3.70	-183.2	300	9.15
1347	7.08	10.9	2.841	0.60	11.10	-159.7	300	11.24
1352	7.06	10.9	2.730	0.51	29.60	-151.2	300	12.98
1357	7.06	10.9	2.557	0.61	38.20	-145.2	300	15.63
1402	7.17	10.9	1.887	2.01	44.60	-119.2	300	16.47
1407	7.28	10.9	1.536	3.76	44.90	-103.1	300	17.89
1412	7.33	10.9	1.422	5.52	50.30	-90.3	300	20.18
1417	7.33	10.8	1.443	5.84	50.30	-88.4	250	21.09
1422	7.32	10.7	1.469	6.00	50.60	-85.7	250	22.49
1427	7.32	10.7	1.489	6.01	50.50	-85.6	250	23.62
1432	7.31	10.7	1.515	5.95	49.70	-85.6	250	24.92
1437	7.31	10.7	1.537	5.91	48.00	-86.1	250	26.08
1442	7.31	10.7	1.500	5.93	46.00	-83.5	250	27.31
1447	7.30	10.6	1.587	5.62	40.60	-88.9	250	28.33
1452	7.28	10.7	1.591	5.49	37.30	-92.3	250	28.29
1457	7.30	10.5	1.533	5.38	18.90	-82.7	250	28.29
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-06-MW-06I

Date: 1/14/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.92 Depth to Well Bottom (ft): 22.42 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 9.56 Estimated Purge Volume (liters): 9.00

Sample ID: AOC-06-MW-06I Sample Time: 1033 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 0946

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0948	7.22	10.0	8.631	1.65	6.80	18.4	200	7.39
0953	6.95	10.9	8.527	0.43	6.50	-13.8	200	8.97
0958	6.93	10.7	8.366	0.31	8.50	-27.3	200	9.84
1003	6.94	10.5	8.060	0.22	11.60	-32.8	200	11.05
1008	6.95	10.4	7.691	0.24	15.70	-31.9	200	11.89
1013	6.98	10.4	7.316	0.62	20.20	-27.4	200	12.72
1018	7.05	10.4	6.759	0.59	23.70	-12.6	200	12.72
1023	7.19	10.5	6.125	0.44	17.80	6.7	200	12.97
1028	7.21	10.5	6.088	0.38	15.60	14.1	200	13.10
1033	7.21	10.6	6.072	0.31	14.60	14.4	200	13.15
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Needs new lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-06-MW-D

Date: 1/14/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 1.64 Depth to Well Bottom (ft): 16.96 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 9.45 Estimated Purge Volume (liters): 13.75

Sample ID: AOC-06-MW-D Sample Time: 1237 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1141

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1142	7.70	10.2	2.115	2.27	Over Range	-73.9	250	2.39
1147	7.79	10.0	2.131	0.90	521.90	-93.5	250	2.87
1152	7.87	8.7	2.150	2.58	549.70	-98.9	250	3.22
1157	8.21	9.3	1.079	3.79	534.50	-63.2	250	3.81
1202	8.34	9.0	0.541	4.09	277.30	-39.0	250	4.19
1207	8.45	9.1	0.482	3.94	225.70	-76.0	250	4.61
1212	8.57	8.5	0.467	4.02	120.90	-8.7	250	5.17
1217	8.63	8.9	0.448	3.86	43.10	1.7	250	5.56
1222	8.71	8.3	0.422	3.71	68.90	10.1	250	5.78
1227	8.80	8.3	0.392	3.42	51.50	13.7	250	6.11
1232	8.76	9.5	0.398	3.27	58.40	18.1	250	6.45
1237	8.70	7.2	0.384	3.19	57.70	20.1	250	6.73
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-08-MW-07S

Date: 1/14/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.62 Depth to Well Bottom (ft): 18.24 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 7.79 Estimated Purge Volume (liters): 10.00

Sample ID: AOC-08-MW-07S Sample Time: 1419 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1337

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1339	10.50	10.0	0.716	2.32	968.10	-181.9	250	5.89
1344	11.01	10.6	0.726	0.35	30.10	-237.7	250	6.01
1349	11.10	10.1	0.739	0.17	22.50	-267.0	250	6.01
1354	11.12	10.1	0.742	0.13	19.30	-277.0	250	6.03
1359	11.14	10.2	0.754	0.09	26.10	-286.4	250	6.13
1404	11.19	9.8	0.771	0.06	21.20	-305.5	250	6.09
1409	11.19	9.8	0.776	0.04	24.30	-315.4	250	6.10
1414	11.20	9.7	0.780	0.04	24.70	-320.5	250	6.11
1419	11.20	9.7	0.780	0.04	23.50	-322.8	250	6.11
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-08-MW-07I

Date: 1/14/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 8.41 Depth to Well Bottom (ft): 32.80 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 15.05 Estimated Purge Volume (liters): 15.00

Sample ID: AOC-08-MW-07I Sample Time: 1539 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1448

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1449	8.87	10.4	0.846	4.01	36.90	-188.5	300	8.94
1454	7.70	10.8	0.851	2.26	25.60	-176.5	300	9.54
1459	7.70	11.9	0.857	0.16	8.80	-170.9	300	10.32
1504	7.77	12.0	0.675	0.11	9.60	-163.3	300	12.14
1509	7.74	12.1	0.670	0.09	8.90	-157.8	300	13.61
1514	7.72	11.9	0.664	0.08	8.80	-151.0	300	15.01
1519	7.72	11.9	0.662	0.07	9.00	-150.3	300	16.15
1524	7.70	11.9	0.662	0.08	8.70	-146.9	300	17.58
1529	7.70	11.9	0.662	0.08	8.60	-146.1	300	18.31
1534	7.69	12.0	0.661	0.06	8.90	-144.1	300	18.76
1539	7.68	12.0	0.699	0.08	7.90	-140.9	300	18.91
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-02-MW-03I

Date: 1/14/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	LDPE/ Silicone		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	5.59	Depth to Well Bottom (ft):	24.61	Well Diameter (in):	2	Screen Length (ft):	
Casing Type:	PVC			Volume in 1 Well Casing (liters):	11.74		Estimated Purge Volume (liters):	12.50	

Sample ID: AOC-02-MW-03I Sample Time: 1230 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1140	8.06	6.2	1.092	5.47	17.04	-82.9	250	5.61
1145	7.99	6.4	1.019	4.65	13.34	-87.5	250	5.61
1150	7.96	6.5	1.004	4.38	7.39	-89.0	250	5.60
1155	7.95	6.8	0.992	4.22	3.06	-90.6	250	5.60
1200	7.94	7.0	0.981	4.01	0.87	-91.9	250	5.62
1205	7.93	7.0	0.959	3.75	0.86	-95.2	250	5.61
1210	7.92	7.1	0.880	2.84	0.00	-104.4	250	5.61
1215	7.92	7.1	0.837	2.43	0.00	-111.9	250	5.61
1220	7.92	6.9	0.776	1.99	0.00	-119.2	250	5.59
1225	7.91	6.9	0.756	1.78	0.00	-122.1	250	5.61
1230	7.91	6.8	0.746	1.73	0.00	-123.9	250	5.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-09-PZ-01

Date: 1/14/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.19 Depth to Well Bottom (ft): 10.07 Well Diameter (in): 1 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 0.60 Estimated Purge Volume (liters): 4.50

Sample ID: AOC-09-PZ-01 Sample Time: 1359 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1334	8.90	5.8	0.742	2.22	51.85	-199.8	100	3.02
1339	8.65	6.0	0.592	1.82	0.00	-187.5	100	3.05
1344	8.60	5.5	0.573	1.79	0.00	-178.7	100	2.98
1349	8.62	5.2	0.573	1.75	0.00	-179.6	100	2.99
1354	8.62	5.4	0.571	1.73	0.00	-179.4	100	2.98
1359	8.57	5.3	0.560	1.75	0.00	-170.0	100	3.00
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-08-PZ-05

Date: 1/19/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.87 Depth to Well Bottom (ft): 14.44 Well Diameter (in): 1 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 1.17 Estimated Purge Volume (liters): 4.50

Sample ID: AOC-08-PZ-05 Sample Time: 1435 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purging @ 1403

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1405	8.53	8.1	1.588	2.30	345.70	-146.9	150	6.94
1410	8.78	7.5	1.664	0.30	270.80	-207.2	150	6.94
1415	8.94	7.5	1.739	0.23	177.80	-221.2	150	6.94
1420	9.32	7.3	1.873	0.13	62.90	-246.1	150	6.94
1425	9.55	7.2	1.951	0.08	36.30	-262.7	150	6.94
1430	9.66	7.0	1.982	0.05	16.20	-271.8	150	6.94
1435	9.68	7.0	1.991	0.04	13.10	-275.1	150	6.94
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-08-MW-18I

Date: 1/19/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.22 Depth to Well Bottom (ft): 26.45 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 12.48 Estimated Purge Volume (liters): 12.50

Sample ID: AOC-08-MW-18I Sample Time: 1234 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purging @ 1143

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1144	7.42	9.7	1.432	4.04	55.10	-76.2	225	7.12
1149	7.41	9.9	1.439	3.91	54.70	-65.5	250	9.15
1154	7.39	10.1	1.439	3.79	53.60	-60.1	250	10.81
1159	7.38	10.5	1.441	3.44	53.10	-55.3	250	12.73
1204	7.36	10.7	1.449	3.11	47.90	-34.4	250	15.55
1209	7.35	10.9	1.451	2.44	44.20	-15.4	250	16.91
1214	7.34	11.0	1.452	2.85	40.80	-6.1	250	17.38
1219	7.33	11.1	1.458	2.71	35.60	17.8	250	17.61
1224	7.32	11.1	1.459	2.70	31.00	16.4	250	17.96
1229	7.32	11.1	1.459	2.64	27.70	11.6	250	18.05
1234	7.31	11.1	1.461	2.57	26.30	7.8	250	18.12
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-08-MW-18S

Date: 1/19/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	HDPE		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	5.86	Depth to Well Bottom (ft):	11.91	Well Diameter (in):	2	Screen Length (ft):	
Casing Type:	PVC			Volume in 1 Well Casing (liters):	3.73		Estimated Purge Volume (liters):	7.88	

Sample ID: AOC-08-MW-18S Sample Time: 1100 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purging @ 1013

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1015	7.83	7.3	1.586	7.07	16.40	89.5	200	6.52
1020	7.78	7.2	1.573	4.86	8.50	89.5	200	7.26
1025	7.78	6.9	1.566	4.64	8.20	86.0	175	7.49
1030	7.77	6.9	1.560	4.15	7.60	77.6	175	7.55
1035	7.77	7.1	1.560	4.07	8.10	52.8	175	7.55
1040	7.81	7.0	1.508	2.72	6.30	-26.6	175	7.55
1045	7.87	6.7	1.427	1.10	5.50	-73.2	175	7.55
1050	7.92	6.8	1.380	0.65	4.80	-100.2	175	7.55
1055	7.93	6.9	1.373	0.63	4.90	-100.5	175	7.55
1100	7.95	6.9	1.355	0.61	4.60	-111.2	175	7.55
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-07-MW-I

Date: 1/19/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.78 Depth to Well Bottom (ft): 17.38 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 7.77 Estimated Purge Volume (liters): 8.00

Sample ID: AOC-07-MW-I Sample Time: 0932 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purging @ 0850

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0852	8.05	8.5	2.261	5.14	25.60	88.7	200	5.41
0857	7.56	9.5	2.307	3.23	17.80	96.7	200	6.54
0902	7.50	6.5	2.307	2.97	14.10	100.3	200	7.91
0907	7.48	9.4	2.306	2.91	12.50	101.3	200	8.21
0912	7.48	9.3	2.301	2.86	12.60	101.3	200	8.72
0917	7.48	9.1	2.249	2.40	12.60	94.4	200	9.19
0922	7.48	9.0	2.294	1.75	10.70	75.5	200	9.71
0927	7.48	8.9	2.296	1.65	9.60	67.8	200	9.89
0932	7.48	8.9	2.300	1.59	8.40	64.8	200	10.03
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-11-MW-C

Date: 1/19/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 1.30 Depth to Well Bottom (ft): 19.23 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 11.06 Estimated Purge Volume (liters): 11.25

Sample ID: AOC-11-MW-C Sample Time: 1559 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1519	7.51	9.3	5.091	3.26	3.16	-107.2	250	1.25
1524	7.25	9.1	4.510	0.75	4.08	-121.7	250	3.47
1529	7.26	8.3	3.621	0.53	9.37	-122.4	250	4.60
1534	7.21	8.0	3.634	0.50	9.41	-123.7	250	4.59
1539	7.19	7.9	3.570	0.50	11.33	-125.0	250	4.54
1544	7.19	7.9	3.489	0.53	8.42	-125.2	250	4.60
1549	7.18	8.0	3.441	0.50	5.43	-126.0	250	4.55
1554	7.17	8.0	3.422	0.47	5.90	-126.9	250	4.71
1559	7.15	8.1	3.485	0.46	5.94	-128.2	250	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-10-MW-08S

Date: 1/19/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.35 Depth to Well Bottom (ft): 10.63 Well Diameter (in): 2 Screen Length (ft): 10

Casing Type: PVC Volume in 1 Well Casing (liters): 2.64 Estimated Purge Volume (liters): 11.25

Sample ID: AOC-10-MW-08S Sample Time: 1336 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1256	9.75	5.6	1.761	7.22	5.34	-97.7	120	6.50
1301	10.53	5.6	1.683	4.80	2.93	-104.6	120	6.58
1306	10.79	5.3	1.640	3.57	0.00	-118.4	120	6.60
1311	11.25	5.0	1.538	1.65	0.00	-156.8	120	6.57
1316	11.49	5.0	1.414	0.89	0.00	-180.2	120	6.57
1321	11.59	4.9	1.360	0.63	0.00	-190.8	120	6.55
1326	11.69	4.9	1.308	0.50	0.00	-197.5	120	6.58
1331	11.71	4.9	1.300	0.47	0.00	-200.1	120	6.57
1336	11.72	4.9	1.297	0.49	0.00	-197.5	120	
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-10-MW-08I

Date: 1/19/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 8.98 Depth to Well Bottom (ft): 22.37 Well Diameter (in): 2 Screen Length (ft): 10

Casing Type: PVC Volume in 1 Well Casing (liters): 8.26 Estimated Purge Volume (liters): 11.25

Sample ID: AOC-10-MW-08I Sample Time: 1201 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1116	7.23	9.5	5.991	5.25	3.44	-85.6	250	8.95
1121	7.08	10.1	5.952	0.66	0.21	-116.6	250	10.36
1126	7.05	9.4	5.735	0.51	0.00	-123.7	250	10.81
1131	7.04	9.7	5.553	0.42	0.84	-129.7	250	11.43
1136	7.04	9.5	5.371	0.48	0.90	-130.5	250	12.06
1141	7.08	9.5	5.161	1.17	14.42	-115.1	250	12.68
1146	7.20	9.8	4.932	3.25	3.37	-89.7	250	13.18
1151	7.21	9.8	4.891	3.61	3.07	-83.7	250	13.18
1156	7.22	10.0	4.863	3.87	2.85	-80.6	250	13.19
1201	7.21	9.8	4.865	3.80	2.72	-80.3	250	13.17
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-10-PZ-04

Date: 1/19/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.45 Depth to Well Bottom (ft): 6.02 Well Diameter (in): 1 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 0.09 Estimated Purge Volume (liters): 3.50

Sample ID: AOC-10-PZ-04 Sample Time: 0953 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0918	8.07	6.0	2.046	4.34	46.64	-194.4	100	5.43
0923	8.61	5.0	1.061	1.34	31.20	-237.1	100	5.67
0928	9.51	4.6	0.816	0.80	7.72	-253.5	100	5.67
0933	9.84	4.6	0.750	0.60	0.10	-263.3	100	5.65
0938	10.01	4.3	0.741	0.52	0.00	-268.4	100	5.60
0943	10.19	4.4	0.742	0.45	0.00	-276.1	100	5.65
0948	10.24	4.3	0.743	0.40	0.00	-281.7	100	5.55
0953	10.14	4.3	0.738	0.39	0.00	-286.6	100	5.53
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-02D

Date: 1/20/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	LDPE/ Silicone		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	21.61	Depth to Well Bottom (ft):	46.60	Well Diameter (in):	2	Screen Length (ft):	10
Casing Type:	PVC			Volume in 1 Well Casing (liters):	15.42		Estimated Purge Volume (liters):	16.00	

Sample ID: AOC-13-MW-02D Sample Time: 1340 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1240	8.10	9.2	1.411	4.30	10.57	-126.6	250	22.55
1245	7.51	7.2	1.607	1.01	10.54	-125.2	250	23.45
1250	7.47	6.8	1.615	0.68	7.48	-128.8	250	24.34
1255	7.45	7.9	1.608	0.55	7.38	-130.6	250	25.32
1300	7.44	8.0	1.606	0.46	5.21	-132.8	250	26.24
1305	7.44	8.1	1.610	0.41	6.47	-134.7	250	27.25
1310	7.45	8.3	1.599	0.45	7.01	-134.4	250	28.02
1315	7.48	7.8	1.553	0.65	6.38	-127.8	250	29.05
1320	7.54	7.5	1.484	1.06	5.02	-118.7	250	29.98
1325	7.79	7.2	1.369	1.86	5.82	-118.0	250	30.55
1330	8.28	7.7	1.265	3.06	5.27	-123.7	250	31.33
1335	8.30	7.8	1.276	3.21	5.42	-131.4	250	32.20
1340	8.37	7.8	1.163	3.42	4.79	-126.6	250	32.89
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Sample w/ bailer
Lab filter

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-02I

Date: 1/20/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.73 Depth to Well Bottom (ft): 25.46 Well Diameter (in): 2 Screen Length (ft): 10

Casing Type: PVC Volume in 1 Well Casing (liters): 12.17 Estimated Purge Volume (liters): 7.50

Sample ID: AOC-13-MW-02I Sample Time: 1141 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0111	7.41	8.1	1.675	7.85	60.87	-46.1	250	6.58
1116	7.29	8.4	1.744	5.18	30.38	-62.5	250	7.49
1121	7.27	8.2	1.745	5.22	22.21	-65.4	250	8.72
1126	7.26	7.8	1.745	4.81	24.96	-66.4	250	9.76
1131	7.26	7.5	1.755	4.25	21.53	-66.9	250	10.76
1136	7.25	7.2	1.753	4.45	20.59	-67.3	250	11.76
1141	7.25	8.1	1.742	4.18	19.76	-67.9	250	12.73
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-02-MW-03D

Date: 1/14/2022 1/20/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 25.12 Depth to Well Bottom (ft): 51.57 Well Diameter (in): 2 Screen Length (ft): 10

Casing Type: PVC Volume in 1 Well Casing (liters): 16.32 Estimated Purge Volume (liters): 4.50

Sample ID: AOC-02-MW-03D Sample Time: 1/20/2022, 1515 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{o}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1/14/2022								
1016	9.46	9.2	4.883	7.51	19.67	-184.6		25.69
1021	7.92	8.0	5.605	3.04	19.46	-125.8		26.99
1026	7.74	7.2	5.567	2.62	18.97	-117.8		27.60
1031	7.69	6.9	5.567	2.67	8.11	-116.6		28.33
1036	7.72	6.8	5.555	2.04	7.30	-121.0		29.10
1041	7.75	7.2	5.566	2.69	23.44	-121.5		29.89
1046	7.76	6.5	5.539	2.00	17.99	-124.8		30.59
1051	7.77	6.2	5.577	2.98	18.20	-124.6		31.11
1056	7.80	6.0	5.578	2.78	17.01	-125.5		31.73
1/20/2022								
1515	12.06	10.7	4.080	8.63	0.00	-101.1		
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Used 1/4" x 3/8" tubing.
No sample on 1/14/2022. need to use bailer on 1/20/2022

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-02S

Date: 1/20/2022 Sampling Personnel: P. Fairbanks Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.94 Depth to Well Bottom (ft): 10.79 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 3.61 Estimated Purge Volume (liters):

Sample ID: AOC-13-MW-02S Sample Time: 1026 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0941	8.75	4.0	0.671	9.83	9.19	-98.2		4.96
0946	8.62	4.0	0.677	8.61	4.45	-100.9		4.97
0951	8.62	4.0	0.586	4.70	3.69	-108.7		4.95
0956	8.62	4.3	0.575	4.07	3.54	-112.4		4.98
1001	8.62	4.3	0.567	3.59	1.12	-116.2		4.97
1006	8.64	4.4	0.552	2.83	0.00	-112.6		4.96
1011	8.66	4.5	0.545	2.36	0.00	-127.8		4.97
1016	8.68	4.9	0.535	1.88	0.00	-133.2		4.97
1021	8.68	4.8	0.531	1.65	0.00	-136.0		4.98
1026	8.71	5.0	0.521	1.69	0.00	-143.2		4.97
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Remarks: Need new lock.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-19S

Date: 1/20/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.10 Depth to Well Bottom (ft): 11.95 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.61 Estimated Purge Volume (liters): 10.00

Sample ID: AOC-13-MW-19S Sample Time: 1446 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1405

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1406	9.05	6.6	0.563	2.77	120.20	-126.9	250	6.26
1411	8.12	5.4	0.563	0.51	41.60	-69.8	250	6.26
1416	7.96	5.1	0.548	0.36	28.70	-83.7	250	6.26
1421	7.65	4.9	0.536	0.18	18.40	-106.7	250	6.26
1426	7.61	4.7	0.521	0.15	14.80	-1291.0	250	6.26
1431	7.59	4.7	0.500	0.10	10.60	-148.8	250	6.26
1436	7.56	4.6	0.498	0.09	9.90	-156.3	250	6.26
1441	7.55	4.8	0.494	0.07	9.70	-159.3	250	6.26
1446	7.55	4.2	0.492	0.06	9.00	-161.2	250	6.26
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-10-MW-16

Date: 1/20/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.89 Depth to Well Bottom (ft): 12.12 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.23 Estimated Purge Volume (liters): 9.62

Sample ID: AOC-10-MW-16 Sample Time: 1256 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1220

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1221	12.06	8.2	1.069	2.24	22.80	-58.9	275	6.95
1226	12.08	8.0	1.084	1.86	22.60	-61.7	275	6.95
1231	12.11	7.9	1.106	1.22	22.10	-72.9	275	6.95
1236	12.16	7.6	1.155	0.74	21.90	-120.8	275	6.95
1241	12.19	7.4	1.940	0.36	21.30	-156.3	275	6.95
1246	12.23	7.2	1.221	0.25	20.10	-188.9	275	6.95
1251	12.23	7.2	1.223	0.21	19.80	-194.8	275	6.95
1256	12.23	7.1	1.223	0.21	17.60	-197.3	275	6.95
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-09-PZ-03

Date: 1/20/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.51 Depth to Well Bottom (ft): 9.86 Well Diameter (in): 1 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 0.67 Estimated Purge Volume (liters): 5.00

Sample ID: AOC-09-PZ-03 Sample Time: 1120 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1053

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1055	8.39	4.6	0.889	2.80	122.30	-172.5	200	5.54
1100	9.40	4.2	0.858	0.75	34.80	-233.6	200	5.54
1105	10.08	3.6	0.832	0.28	10.70	-263.0	200	5.54
1110	10.18	3.5	0.810	0.15	8.20	-275.1	200	5.54
1115	10.19	3.4	0.809	0.14	8.10	-277.8	200	5.54
1120	10.21	3.3	0.802	0.11	8.00	-282.7	200	5.54
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-09-PZ-02

Date: 1/20/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 7.26 Depth to Well Bottom (ft): 12.00 Well Diameter (in): 1 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 0.73 Estimated Purge Volume (liters): 3.75

Sample ID: AOC-09-PZ-02 Sample Time: 0958 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 0930

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0933	8.22	5.5	1.881	5.18	58.30	33.9	150	7.32
0938	8.04	5.6	1.831	4.02	22.90	34.8	150	7.32
0943	8.00	4.7	0.861	3.66	12.80	42.8	150	7.32
0948	8.00	4.7	0.846	3.24	11.50	42.8	150	7.32
0953	7.99	4.8	0.839	2.98	11.40	42.7	150	7.32
0958	7.99	4.9	0.834	2.01	10.80	42.6	150	7.32
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-19I

Date: 1/20/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.76 Depth to Well Bottom (ft): 24.98 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 11.24 Estimated Purge Volume (liters): 11.00

Sample ID: AOC-13-MW-19I Sample Time: 1558 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1516

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1518	7.44	8.3	3.798	5.27	457.70	-65.1	275	7.51
1523	7.41	8.6	3.692	5.01	243.80	-60.9	275	8.97
1528	7.39	8.8	3.558	4.61	109.70	-55.6	275	9.56
1533	7.39	9.1	3.411	3.55	50.30	-43.8	275	11.18
1538	7.37	9.2	3.212	3.08	25.60	-37.9	275	13.58
1543	7.36	9.3	3.099	2.63	16.10	-33.4	275	15.22
1548	7.36	9.3	3.076	2.59	15.90	-26.3	275	16.11
1553	7.36	9.3	3.073	2.56	14.10	-21.5	275	16.11
1558	7.36	9.3	3.068	2.55	13.80	-16.7	275	16.11
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-12-MW-09I

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 6.23 Depth to Well Bottom (ft): 17.29 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 6.82 Estimated Purge Volume (liters):

Sample ID: AOC-12-MW-09I Sample Time: 1251 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1216	7.08	5.8	5.907	4.21	0.00	-81.3		7.79
1221	6.99	8.4	5.765	1.58	0.00	-105.0		8.68
1226	7.01	8.5	5.497	1.05	0.00	-113.6		9.61
1231	7.05	8.6	4.998	1.04	0.00	-107.5		10.50
1236	7.15	8.6	4.291	2.49	0.00	-81.4		11.49
1241	7.31	8.1	4.128	3.17	0.00	-70.3		12.29
1246	7.14	9.4	5.434	2.65	0.00	-72.9		12.69
1251	7.25	8.9	4.304	2.82	0.00	-71.0		12.69
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Limited bottles

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-12-MW-09S

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: LDPE/ Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.65 Depth to Well Bottom (ft): 10.03 Well Diameter (in): 2 Screen Length (ft): 5

Casing Type: PVC Volume in 1 Well Casing (liters): 2.70 Estimated Purge Volume (liters):

Sample ID: AOC-12-MW-09S Sample Time: 1130 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1100	8.21	3.9	0.960	10.24	25.67	-44.2		5.88
1105	8.68	3.3	0.917	7.80	4.22	-45.3		6.67
1110	8.02	3.9	0.912	7.34	1.62	-46.4		6.25
1115	7.84	3.7	0.875	5.33	0.00	-64.0		6.48
1120	7.76	3.4	0.852	2.66	0.00	-80.1		6.69
1125	7.74	3.4	0.843	2.01	0.00	-87.5		6.82
1130	7.74	3.6	0.863	1.85	0.00	-89.6		7.10
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Limited bottles

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: MW-F

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	LDPE/ Silicone		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	0.25	Depth to Well Bottom (ft):	19.45	Well Diameter (in):	2	Screen Length (ft):	10
Casing Type:	PVC			Volume in 1 Well Casing (liters):	11.85		Estimated Purge Volume (liters):		

Sample ID: MW-F Sample Time: 0957 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0927	7.48	8.3	5.440	4.42	26.86	-94.8		1.28
0932	7.12	7.3	4.937	0.94	21.66	-123.4		2.35
0937	7.08	8.4	4.057	0.53	23.31	-128.9		3.53
0942	7.10	7.9	3.410	0.46	17.83	-129.7		4.45
0947	7.13	8.1	2.899	0.40	24.23	-127.5		4.79
0952	7.22	6.8	2.197	0.38	26.43	-126.9		4.77
0957	7.23	6.7	2.098	0.42	28.31	-123.4		4.79
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Well head frozen; J-Plug off of well casing (frozen in ice)- need replacement.
Limited bottles

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-02-MW-01I

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.66 Depth to Well Bottom (ft): 20.71 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 9.29 Estimated Purge Volume (liters): 8.75

Sample ID: AOC-02-MW-01I Sample Time: 1005 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 0928

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0930	7.84	8.3	10.600	7.48	12.80	24.0	250	6.36
0935	7.04	9.3	10.845	0.46	8.50	1.4	250	7.98
0940	7.01	9.2	10.835	0.33	9.20	-2.7	250	8.86
0945	6.99	9.4	10.872	0.25	9.30	-4.6	250	9.55
0950	6.96	10.5	10.872	0.23	8.90	-1.1	250	10.25
0955	6.98	10.3	10.783	0.19	9.10	11.7	250	10.61
1000	7.01	10.2	10.712	0.21	8.40	12.3	250	10.78
1005	7.05	10.0	10.698	0.25	6.60	17.8	250	10.95
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: Needs new lock.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-14-MW-21S

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.08 Depth to Well Bottom (ft): 11.20 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.78 Estimated Purge Volume (liters): 7.87

Sample ID: AOC-14-MW-21S Sample Time: 1114 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1038

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1039	8.05	6.0	1.895	2.77	22.80	56.1	225	5.98
1044	7.92	4.7	1.625	0.56	22.10	21.6	225	6.95
1049	7.89	4.6	1.561	0.48	19.10	-27.6	225	6.95
1054	8.23	4.5	1.348	0.30	11.30	-159.5	225	7.38
1059	8.45	4.5	1.200	0.14	6.20	-232.8	225	7.65
1104	9.23	4.3	1.246	0.08	9.20	-271.4	225	8.38
1109	9.12	4.4	1.283	0.08	8.70	-271.5	225	8.49
1114	9.10	4.6	1.295	0.08	9.00	-271.6	225	8.66
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-14-MW-21I

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device:	Peri-Pump			Tubing Type:	HDPE		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water (ft):	6.85	Depth to Well Bottom (ft):	24.58	Well Diameter (in):	2	Screen Length (ft):	
Casing Type:	PVC			Volume in 1 Well Casing (liters):	10.94		Estimated Purge Volume (liters):	10.50	

Sample ID: AOC-14-MW-21I Sample Time: 1156 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1125

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1126	7.67	10.7	1.863	2.85	43.90	-158.7	350	7.61
1131	7.29	11.5	1.626	0.33	33.80	-201.0	350	9.02
1136	7.27	11.7	1.383	0.12	66.90	-278.7	350	12.35
1141	7.27	11.8	1.339	0.07	42.50	-243.8	350	14.79
1146	7.26	11.6	1.340	0.04	54.50	-253.3	350	15.95
1151	7.26	11.4	1.321	0.02	51.00	-261.7	350	17.38
1156	7.26	11.3	1.314	0.01	46.00	-264.4	350	17.74
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks: LNAPL @ 6.44', Water @ 6.85'. Removed LNAPL first, then dropped tubing and began purging. Dedicated LDPE tubing remains in well. Used new HDPE tubing for sampling.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-20S

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 5.13 Depth to Well Bottom (ft): 10.56 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 3.35 Estimated Purge Volume (liters): 8.25

Sample ID: AOC-13-MW-20S Sample Time: 1347 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1316

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1317	8.09	6.6	0.608	2.58	37.90	-50.4	275	5.59
1322	7.94	6.0	0.592	0.72	32.30	-49.9	275	5.74
1327	7.87	5.5	0.596	0.42	18.20	-99.6	275	5.75
1332	7.86	5.3	0.599	0.31	14.00	-131.4	275	5.75
1337	7.86	6.6	0.601	0.17	8.80	-167.3	275	5.80
1342	7.86	5.5	0.602	0.15	8.80	-166.7	275	5.81
1347	7.87	5.4	0.600	0.13	8.70	-171.5	275	5.82
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60633654 Site: Tonawanda Forge Well I.D.: AOC-13-MW-20I

Date: 1/21/2022 Sampling Personnel: S. Connelly Company: AECOM

Purging/ Sampling Device: Peri-Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water (ft): 4.82 Depth to Well Bottom (ft): 25.07 Well Diameter (in): 2 Screen Length (ft):

Casing Type: PVC Volume in 1 Well Casing (liters): 12.49 Estimated Purge Volume (liters): 10.50

Sample ID: AOC-13-MW-20I Sample Time: 1441 QA/QC: None

Sample Parameters: TCL PCBs/ TCL PCBs Filtered/ Homologs Filtered

Began purge @ 1408

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1409	6.91	11.0	5.226	0.26	36.40	-59.8	300	6.22
1414	6.94	11.4	5.190	0.25	41.20	-68.7	300	8.75
1419	6.96	11.5	4.934	0.24	53.20	-72.3	300	9.45
1424	7.12	11.1	3.985	2.31	54.60	-74.4	300	11.11
1429	7.38	10.5	3.579	2.90	48.10	-55.2	300	12.70
1434	7.41	10.7	3.548	2.94	43.30	-47.8	300	14.50
1439	7.41	10.5	3.585	2.92	42.10	-46.7	300	15.24
1444	7.41	10.8	3.591	2.93	38.10	-42.7	300	15.51
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

APPENDIX J

DATA USABILITY SUMMARY REPORTS

DATA USABILITY SUMMARY REPORT

PRE-DESIGN INVESTIGATION
TONAWANDA FORGE SITE
SITE ID# 915274
WORK ASSIGNMENT NO. D009803-24
TOWN OF TONAWANDA
ERIE COUNTY, NEW YORK

Analyses Performed by:

EUROFINS TESTAMERICA
AMHERST, NEW YORK and EDISON, NEW JERSEY

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:

AECOM
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NY 14202

MARCH 2021
Revised July 15, 2022

TABLE OF CONTENTS

Page No.

1.0 INTRODUCTION 1

2.0 ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES 1

3.0 DATA DELIVERABLE COMPLETENESS 2

4.0 SAMPLE RECEIPT/ PRESERVATION/HOLDING TIMES 2

5.0 NON-CONFORMANCES 2

6.0 SAMPLE RESULTS AND REPORTING 6

7.0 SUMMARY 6

TABLES

(Following Text)

Table 1 Validated Soil Sample Results

Table 2 Validated Surface Water Sample Results

Table 3 Validated Brick/Concrete/Wood Sample Results

ATTACHMENTS

Attachment A – Validated Form 1s

Attachment B – Support Documentation

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation*, Appendix 2B - *Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010.

Discussed in this DUSR are analytical data for 2 wood core samples, 9 concrete samples, 1 concrete field duplicate (FD), 279 soil samples, 8 soil FDs, 3 soil matrix spike/matrix spike duplicates (MS/MSD), 14 brick samples, 1 brick FD, and 5 surface water samples collected by AECOM personnel on November 2, 2020 thru December 11, 2020 at the Tonawanda Forge site (Site # 915274), located in the Town of Tonawanda, New York as part of the remedial design investigation.

2.0 ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The analytical laboratories that performed the analyses are Eurofins TestAmerica located in Amherst, NY and Edison, NJ. The samples were analyzed for the following parameters. Not all samples were analyzed for all parameters.

Parameter	Method
Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs)	SW8260C/624.1
Semivolatile Organic Compounds (SVOCs) plus TICs	SW8270D/625.1
Polychlorinated Biphenyls (PCBs)	SW8082A/608.3
Pesticides	608.3
Metals/Mercury	SW6010C/SW7471B/7470A/200.8/245.1
Cyanide	SW9012B

A limited data validation was performed following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C*, SOP HW-24, Rev. 4, October 2014;
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8270D*, SOP HW-22, Rev. 4, August 2008;
- *Polychlorinated Biphenyl (PCB) Aroclor Data Validation,* SOP HW-37, Rev. 3, May 2013;
- *ICP-AES Data Validation*, SOP HW-2a, Rev. 15, December 2012; and
- *Mercury and Cyanide Data Validation*, SOP HW-2c, Rev. 15, December 2012.

The limited validation included: a review of completeness of all required deliverables; holding times; a review of quality control (QC) results [blanks, instrument tunes, calibration standards, MS/MSD

recoveries, laboratory control sample (LCS) recoveries, surrogate/internal standard recoveries and field duplicate precision] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the limited data validation include 'J' (estimated concentration), 'J+' (estimated concentration, high bias), 'J-' (estimated concentration, low bias), 'JN' (tentatively identified, estimated concentration), 'UJ' (estimated quantitation limit), and 'U' (non-detect). Definitions of USEPA data qualifiers are presented at the end of this text. Validated sample results are presented on Table 1 (Soil), Table 2 (Surface Water) and Table 3 (Brick/Concrete/Wood). Validated Form I's are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 SAMPLE RECEIPT/ PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). All samples were analyzed within the required holding times with the following exception:

Method 624.1 has a requirement that acrolein is analyzed within 3 days for preserved aqueous samples. Since the surface water samples were not field preserved to pH 4-5 and were not analyzed within 3 days of collection, all surface water samples have been qualified 'UJ' for acrolein.

5.0 NON-CONFORMANCES

Instrument Calibration

The percent difference (%D) between the VOC initial calibration (ICAL) average relative response factor (RRF) and the RRF in one or more of the continuing calibration standards (CCALs) associated with the samples exceeded the QC limit of 20% and exhibited a decreasing response (i.e., low bias) for dichlorodifluoromethane. The results for these compounds in the associated samples, as listed on the Form 5, were qualified 'UJ'.

The %D between the SVOC ICAL average RRF and the RRF in one or more of the CCALs associated with the samples exceeded the QC limit of 20% and exhibited a decreasing response (i.e., low bias) for 2-nitroaniline, 2-chlorophenol, 4-nitrophenol, benzaldehyde, bis(2-chloroisopropyl)ether, hexachlorocyclopentadiene, and/or di-n-octylphthalate. The results for these compounds in the associated samples, as listed on the Form 5, were qualified 'UJ'.

Surrogates

Surrogate recoveries are not evaluated when samples have been diluted due to matrix and/or elevated target compounds.

The percent recovery (%R) of VOC surrogate toluene-d_8 was below the lower QC limit in sample SW-2020-1. The results for all compounds in this sample have been qualified 'UJ'.

The %R of PCB surrogate tetrachloro-meta-xylene was above the upper QC limits on both the initial and confirmation column. The detected results for Aroclor 1248 was qualified 'J+' in sample SB-37-20-0.6-3.0.

Method Blanks/Laboratory Blanks

The pesticide method blank was detected for delta-BHC. The detected result for delta-BHC in sample SW-2020-3 was qualified 'U' at the reporting limit (RL).

Antimony (Sb) was detected in the laboratory method blank below the RL. The results for SB in surface water samples SW-2020-2, SW-2020-3 and SW-2020-5 were qualified 'U' at the RL.

Several metals were detected in the laboratory method blanks below the RL. Since the associated sample results were greater than the RL, the 'B' flag applied by the laboratory has been removed.

Matrix Spikes/Matrix Duplicates (MS/MD)

The MS/MSD performed on sample SB-48-20-0-0.5 showed the %Rs for antimony (Sb), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), and zinc (Zn) as being below the lower QC limit, and the %R of barium (Ba) and vanadium (V) as being above the upper QC limit. The post-digestion spike %Rs were acceptable for these metals with the exception of Ba and Zn (%R < QC limit). The results for these metals in this sample have been qualified 'J', 'J-', or "UJ' in accordance with the validation guidelines.

The MS/MSD performed on sample SF-36-20-0-1 showed the %Rs for Sb, Ba, Cr, Cu, Pb, Ni, and Zn as being below the lower QC limit, and the %R of manganese (Mn) as being above the upper QC limit. No post-digestion spike was performed. The results for these metals in this sample and the field duplicate (FD-110520-3) have been qualified 'J-', or 'J+' in accordance with the validation guidelines.

The MS/MSD performed on sample TP-2020-02-3.3-3.5 showed the %Rs for Ba, Cr, Mn, Ni, and V as being below the lower QC limit. The post-digestion spike %Rs were acceptable. The results for these metals in this sample have been qualified 'J' in accordance with the validation guidelines.

Laboratory Control Samples (LCS)

The %R of 1,1-dichloroethane and acrylonitrile was below the QC limit in the LCS associated with the surface water samples. The results for these compounds in all surface water samples were qualified 'UJ'.

Serial Dilutions

The %D for the serial dilution performed on sample SB-48-20-0-0.5 exceeded the QC limit for aluminum (Al), beryllium (Be), calcium (Ca), iron (Fe), magnesium (Mg), manganese (Mn), and potassium (K). The %D for the serial dilution performed on sample TP-2020-02-3.3-3.5 exceeded the QC limit for Al, Ca, Cu, Fe, Pb, Mg, K, and Zn. The results for these metals in the parent samples have been qualified 'J'.

Chromatography

The %Ds between the dual-column analyses exceeded QC limits (>25%) for the pesticides/PCBs. The pesticide/PCB results for the affected samples have been qualified in accordance with the following data validation guidelines.

Parameter	% Difference	Qualifier
Pesticides/PCBs	26-70%	'J'
Pesticides/PCBs	>50%, sample result < RL	'U' at RL
Pesticides/PCBs	71-200% w/interference	'JN'

The laboratory indicated in their case narratives that for some samples the PCB pattern didn't exactly match the standard due to possible weathering effects on the sample. To be conservative the laboratory reported those PCBs as detections at the Aroclor that most closely matched the pattern. Those samples have been qualified 'JN' (tentatively identified, estimated concentration) by the data validator.

Field Duplicates

VOC acetone was detected below the QL in the EB associated with some of the soil samples. Those associated samples that had concentrations of this compound less than the QL were qualified 'U' at the QL.

Sodium was detected below the QL in the EB associated with the soil samples. Those associated samples that had concentrations of Na greater than the QL but less than 10x the EB result were

qualified ‘J’. Those associated samples that had concentrations of Na less than the QL were qualified ‘U’ at the QL.

Chromatography

The %Ds between the dual-column analyses for the samples exceeded QC limits (>25%) for one or more PCBs. The PCB results for the affected samples have been qualified ‘J’, ‘NJ’, ‘U’, or ‘R’ in accordance with the following validation guidelines.

Parameter	% Difference	Qualifier
PCBs	0-25%	none
	26-100%	‘J’
	101-200% (interference detected)	‘NJ’
	>50% (value is < QL on both columns)	‘U’
	>200%	‘R’

Support documentation (i.e., Form 10s) are provided in Attachment A.

Field Duplicates

Field duplicates were collected at the following locations. The results between the sample and field duplicate exhibited good field and analytical precision [i.e., relative percent difference (RPD) < 50% for results greater than the reporting limit] unless noted below.

The field duplicate relative percent differences (RPD) generally exhibited good analytical precision (e.g., for results >5x QL: <50% for solids and <20% for waters; for results <5x QL: absolute difference <2x QL). Those parameters that exceeded QC limits were qualified ‘J’ in the parent and field duplicate samples.

Field Duplicate	Parent Sample ID	Results Qualified ‘J’
FD-110220-1	SB-72-20-4-5	--
FD-110220-2	SB-58-20-2-3	--
FD-110520-4	SB-23-20-2-2.5	--
FD-110520-3	SF-36-20-0-1	Pb, Cu, Cr
FD-110520-2	SF-36-20-0-0.5	--
FD-110520-1	SB-06-20-4-5	--
FD-20201208-1	TP-03-3.3-3.5	Acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, carbazole, chrysene, dibenzo(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3- cd)pyrene, phenanthrene, pyrene, Aroclor 1248, Al, arsenic (As), Ba, Be, Ca, Cr, cobalt (Co), Cu, Fe, Mg, Mn, Ni, K, and V
FD-110920-1	SB-34-20-3-4	Aroclor 1248

Field Duplicate	Parent Sample ID	Results Qualified 'J'
FD-111220-1	CC-04-20	--
FD-111220-2	BC-06-20	--

6.0 SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors.

Several samples were analyzed utilizing initial dilutions due to elevated levels of target compounds, matrix interference, and/or color of the extract which resulted in elevated detection limits for the non-detect compounds.

Several TICS were crossed off on the samples forms because they are system artifacts or VOC target compounds reported as SVOC TICs.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J', 'J+', ''J-', JN', or 'UJ' are considered conditionally usable. All results qualified 'U' should be considered non-detect. All other sample results are usable as reported. AECOM does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist **Date: 3/12/2021**

Reviewed By: Peter R. Fairbanks, Senior Chemist **Date: 3/12/2021**

DEFINITIONS OF USEPA DATA QUALIFIERS

U –	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J –	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
(J+) -	The result is an estimated quantity. The associated numerical value is biased high.
(J-) -	The result is an estimated quantity. The associated numerical value is biased low.
UJ –	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R –	The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
D –	The sample result was reported from a secondary dilution analysis.
NJ –	The analysis indicates the presence of an analyte that has been "tentatively identified´ and the associated numerical value represents its approximate concentration.

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID		SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	0.0059 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	0.0059 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	0.0059 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	0.0059 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	0.0059 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	0.0059 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	0.0059 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	0.0059 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	0.0059 U	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	0.0059 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	0.0059 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	0.0059 U	NA
2-Hexanone	MG/KG	NA	NA	NA	0.029 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	0.029 U	NA
Acetone	MG/KG	NA	NA	NA	0.029 U	NA
Benzene	MG/KG	NA	NA	NA	0.0059 U	NA
Bromodichloromethane	MG/KG	NA	NA	NA	0.0059 U	NA
Bromoform	MG/KG	NA	NA	NA	0.0059 U	NA
Bromomethane	MG/KG	NA	NA	NA	0.0059 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID		SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	0.0059 U	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	0.0059 U	NA
Chlorobenzene	MG/KG	NA	NA	NA	0.0059 U	NA
Chloroethane	MG/KG	NA	NA	NA	0.0059 U	NA
Chloroform	MG/KG	NA	NA	NA	0.0059 U	NA
Chloromethane	MG/KG	NA	NA	NA	0.0059 U	NA
Cyclohexane	MG/KG	NA	NA	NA	0.0059 U	NA
Dibromochloromethane	MG/KG	NA	NA	NA	0.0059 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	0.0059 UJ	NA
Ethylbenzene	MG/KG	NA	NA	NA	0.0059 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	0.0059 U	NA
Methyl acetate	MG/KG	NA	NA	NA	0.029 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	0.029 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	0.0059 U	NA
Methylcyclohexane	MG/KG	NA	NA	NA	0.0059 U	NA
Methylene chloride	MG/KG	NA	NA	NA	0.0059 U	NA
Styrene	MG/KG	NA	NA	NA	0.0059 U	NA
Tetrachloroethene	MG/KG	NA	NA	NA	0.0059 U	NA
Toluene	MG/KG	NA	NA	NA	0.0059 U	NA
Trichloroethene	MG/KG	NA	NA	NA	0.0059 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	0.0059 U	NA
Vinyl chloride	MG/KG	NA	NA	NA	0.0059 U	NA
Xylene (total)	MG/KG	NA	NA	NA	0.012 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID		SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID		SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID		SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Aroclor 1221	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Aroclor 1232	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Aroclor 1242	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Aroclor 1248	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.73 J
Aroclor 1254	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Aroclor 1260	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.16 J
Aroclor 1262	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Aroclor 1268	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.24 U
Total PCBs	MG/KG	0.29 U	0.26 U	0.28 U	0.22 U	0.89

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-01-20	SB-01-20	SB-01-20	SB-01-20	SB-02-20
Sample ID		SB-01-20-0.8-1.3	SB-01-20-1.8-2.3	SB-01-20-3.8.4.8	SB-01-20-5.8-6.8	SB-02-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.3	1.8-2.3	3.8-4.8	5.8-6.8	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-02-20	SB-02-20	SB-02-20	SB-03-20	SB-03-20
Sample ID		SB-02-20-1-1.5	SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-02-20	SB-02-20	SB-02-20	SB-03-20	SB-03-20
Sample ID		SB-02-20-1-1.5	SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-02-20	SB-02-20	SB-02-20	SB-03-20	SB-03-20
Sample ID		SB-02-20-1-1.5	SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-02-20	SB-02-20	SB-02-20	SB-03-20	SB-03-20
Sample ID		SB-02-20-1-1.5	SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-02-20	SB-02-20	SB-02-20	SB-03-20	SB-03-20
Sample ID		SB-02-20-1-1.5	SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Aroclor 1221	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Aroclor 1232	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Aroclor 1242	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Aroclor 1248	MG/KG	0.97 J	7.1	12	0.24 U	1.1 J
Aroclor 1254	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Aroclor 1260	MG/KG	0.28	1.4	0.96 U	0.24 U	1.9
Aroclor 1262	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Aroclor 1268	MG/KG	0.25 U	0.23 U	0.96 U	0.24 U	0.26 U
Total PCBs	MG/KG	1.25	8.5	12	0.24 U	3

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-02-20	SB-02-20	SB-02-20	SB-03-20	SB-03-20
Sample ID		SB-02-20-1-1.5	SB-02-20-3-4	SB-02-20-5-6	SB-03-20-0.8-1.3	SB-03-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	5.0-6.0	0.8-1.3	2.0-3.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/05/20	11/05/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20
Sample ID		SB-03-20-3-4	SB-03A-20-0-0.5	SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20
Sample ID		SB-03-20-3-4	SB-03A-20-0-0.5	SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20
Sample ID		SB-03-20-3-4	SB-03A-20-0-0.5	SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20
Sample ID		SB-03-20-3-4	SB-03A-20-0-0.5	SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20
Sample ID		SB-03-20-3-4	SB-03A-20-0-0.5	SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Aroclor 1221	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Aroclor 1232	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Aroclor 1242	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Aroclor 1248	MG/KG	0.59 J	0.11 J	0.44 J	0.59	0.26 U
Aroclor 1254	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Aroclor 1260	MG/KG	0.69	0.24 U	0.18 J	0.12 J	0.26 U
Aroclor 1262	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Aroclor 1268	MG/KG	0.28 U	0.24 U	0.28 U	0.27 U	0.26 U
Total PCBs	MG/KG	1.28	0.11	0.62	0.72	0.26 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03-20	SB-03A-20	SB-03A-20	SB-03A-20	SB-03A-20
Sample ID		SB-03-20-3-4	SB-03A-20-0-0.5	SB-03A-20-1-1.5	SB-03A-20-2-3	SB-03A-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03A-20	SB-04-20	SB-04-20	SB-04-20	SB-04-20
Sample ID		SB-03A-20-6-7	SB-04-20-0.8-1.3	SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.8-1.3	1.8-2.3	2.8-3.8	4.8-5.8
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	0.0055 U
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	0.0055 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	0.0055 U
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	0.0055 U
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	0.0055 U
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	0.0055 U
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	0.0055 U
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	0.0055 U
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0055 U
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	0.0055 U
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	0.0055 U
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0055 U
2-Hexanone	MG/KG	NA	NA	NA	NA	0.028 U
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	0.028 U
Acetone	MG/KG	NA	NA	NA	NA	0.019 J
Benzene	MG/KG	NA	NA	NA	NA	0.0055 U
Bromodichloromethane	MG/KG	NA	NA	NA	NA	0.0055 U
Bromoform	MG/KG	NA	NA	NA	NA	0.0055 U
Bromomethane	MG/KG	NA	NA	NA	NA	0.0055 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03A-20	SB-04-20	SB-04-20	SB-04-20	SB-04-20
Sample ID		SB-03A-20-6-7	SB-04-20-0.8-1.3	SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.8-1.3	1.8-2.3	2.8-3.8	4.8-5.8
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	0.0055 U
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	0.0055 U
Chlorobenzene	MG/KG	NA	NA	NA	NA	0.0055 U
Chloroethane	MG/KG	NA	NA	NA	NA	0.0055 U
Chloroform	MG/KG	NA	NA	NA	NA	0.0055 U
Chloromethane	MG/KG	NA	NA	NA	NA	0.0055 U
Cyclohexane	MG/KG	NA	NA	NA	NA	0.0055 U
Dibromochloromethane	MG/KG	NA	NA	NA	NA	0.0055 U
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	0.0055 UJ
Ethylbenzene	MG/KG	NA	NA	NA	NA	0.0055 U
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	0.0055 U
Methyl acetate	MG/KG	NA	NA	NA	NA	0.028 U
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	0.028 U
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	0.0055 U
Methylcyclohexane	MG/KG	NA	NA	NA	NA	0.0055 U
Methylene chloride	MG/KG	NA	NA	NA	NA	0.0055 U
Styrene	MG/KG	NA	NA	NA	NA	0.0055 U
Tetrachloroethene	MG/KG	NA	NA	NA	NA	0.0055 U
Toluene	MG/KG	NA	NA	NA	NA	0.0055 U
Trichloroethene	MG/KG	NA	NA	NA	NA	0.0055 U
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	0.0055 U
Vinyl chloride	MG/KG	NA	NA	NA	NA	0.0055 U
Xylene (total)	MG/KG	NA	NA	NA	NA	0.011 U
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03A-20	SB-04-20	SB-04-20	SB-04-20	SB-04-20
Sample ID		SB-03A-20-6-7	SB-04-20-0.8-1.3	SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.8-1.3	1.8-2.3	2.8-3.8	4.8-5.8
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03A-20	SB-04-20	SB-04-20	SB-04-20	SB-04-20
Sample ID		SB-03A-20-6-7	SB-04-20-0.8-1.3	SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.8-1.3	1.8-2.3	2.8-3.8	4.8-5.8
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03A-20	SB-04-20	SB-04-20	SB-04-20	SB-04-20
Sample ID		SB-03A-20-6-7	SB-04-20-0.8-1.3	SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.8-1.3	1.8-2.3	2.8-3.8	4.8-5.8
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	0.29 U	0.23 U	0.27 U	0.28 U
Aroclor 1221	MG/KG	0.26 U	0.29 U	0.23 U	0.27 U	0.28 U
Aroclor 1232	MG/KG	0.26 U	0.29 U	0.23 U	0.27 U	0.28 U
Aroclor 1242	MG/KG	0.26 U	0.29 U	0.23 U	0.24 J	0.28 U
Aroclor 1248	MG/KG	0.059 J	0.29 U	0.98	0.27 U	1.4 J
Aroclor 1254	MG/KG	0.26 U	0.29 U	0.23 U	0.27 U	0.28 U
Aroclor 1260	MG/KG	0.26 U	1.2	0.89	0.26 J	0.28 U
Aroclor 1262	MG/KG	0.26 U	0.29 U	0.23 U	0.27 U	0.28 U
Aroclor 1268	MG/KG	0.26 U	0.29 U	0.23 U	0.27 U	0.28 U
Total PCBs	MG/KG	0.059	1.2	1.87	0.5	1.4

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-03A-20	SB-04-20	SB-04-20	SB-04-20	SB-04-20
Sample ID		SB-03A-20-6-7	SB-04-20-0.8-1.3	SB-04-20-1.8-2.3	SB-04-20-2.8-3.8	SB-04-20-4.8-5.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.8-1.3	1.8-2.3	2.8-3.8	4.8-5.8
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-04-20	SB-05-20	SB-05-20	SB-05-20	SB-05-20
Sample ID		SB-04-20-6.8-7.8	SB-05-20-0-0.5	SB-05-20-1-1.5	SB-05-20-2-3	SB-05-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.8-7.8	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	0.0057 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	0.0057 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	0.0057 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	0.0057 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	0.0057 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	0.0057 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	0.0057 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	0.0057 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	0.0057 U	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	0.0057 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	0.0057 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	0.0057 U	NA
2-Hexanone	MG/KG	NA	NA	NA	0.029 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	0.029 U	NA
Acetone	MG/KG	NA	NA	NA	0.014 J	NA
Benzene	MG/KG	NA	NA	NA	0.0057 U	NA
Bromodichloromethane	MG/KG	NA	NA	NA	0.0057 U	NA
Bromoform	MG/KG	NA	NA	NA	0.0057 U	NA
Bromomethane	MG/KG	NA	NA	NA	0.0057 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-04-20	SB-05-20	SB-05-20	SB-05-20	SB-05-20
Sample ID		SB-04-20-6.8-7.8	SB-05-20-0-0.5	SB-05-20-1-1.5	SB-05-20-2-3	SB-05-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.8-7.8	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	0.0057 U	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	0.0057 U	NA
Chlorobenzene	MG/KG	NA	NA	NA	0.0057 U	NA
Chloroethane	MG/KG	NA	NA	NA	0.0057 U	NA
Chloroform	MG/KG	NA	NA	NA	0.0057 U	NA
Chloromethane	MG/KG	NA	NA	NA	0.0057 U	NA
Cyclohexane	MG/KG	NA	NA	NA	0.0057 U	NA
Dibromochloromethane	MG/KG	NA	NA	NA	0.0057 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	0.0057 UJ	NA
Ethylbenzene	MG/KG	NA	NA	NA	0.0057 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	0.0057 U	NA
Methyl acetate	MG/KG	NA	NA	NA	0.029 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	0.029 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	0.0057 U	NA
Methylcyclohexane	MG/KG	NA	NA	NA	0.0057 U	NA
Methylene chloride	MG/KG	NA	NA	NA	0.0057 U	NA
Styrene	MG/KG	NA	NA	NA	0.0057 U	NA
Tetrachloroethene	MG/KG	NA	NA	NA	0.0057 U	NA
Toluene	MG/KG	NA	NA	NA	0.0057 U	NA
Trichloroethene	MG/KG	NA	NA	NA	0.0057 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	0.0057 U	NA
Vinyl chloride	MG/KG	NA	NA	NA	0.0057 U	NA
Xylene (total)	MG/KG	NA	NA	NA	0.011 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-04-20	SB-05-20	SB-05-20	SB-05-20	SB-05-20
Sample ID		SB-04-20-6.8-7.8	SB-05-20-0-0.5	SB-05-20-1-1.5	SB-05-20-2-3	SB-05-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.8-7.8	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-04-20	SB-05-20	SB-05-20	SB-05-20	SB-05-20
Sample ID		SB-04-20-6.8-7.8	SB-05-20-0-0.5	SB-05-20-1-1.5	SB-05-20-2-3	SB-05-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.8-7.8	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-04-20	SB-05-20	SB-05-20	SB-05-20	SB-05-20
Sample ID		SB-04-20-6.8-7.8	SB-05-20-0-0.5	SB-05-20-1-1.5	SB-05-20-2-3	SB-05-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.8-7.8	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Aroclor 1221	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Aroclor 1232	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Aroclor 1242	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Aroclor 1248	MG/KG	1.3	0.24 U	0.27 U	8.0 J	0.25 U
Aroclor 1254	MG/KG	0.25 U	0.13 J	0.27 U	1.4 U	0.25 U
Aroclor 1260	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Aroclor 1262	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Aroclor 1268	MG/KG	0.25 U	0.24 U	0.27 U	1.4 U	0.25 U
Total PCBs	MG/KG	1.3	0.13	0.27 U	8	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-04-20	SB-05-20	SB-05-20	SB-05-20	SB-05-20
Sample ID		SB-04-20-6.8-7.8	SB-05-20-0-0.5	SB-05-20-1-1.5	SB-05-20-2-3	SB-05-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.8-7.8	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Date Sampled		11/05/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-05-20	SB-06-20	SB-06-20	SB-06-20	SB-06-20
Sample ID		SB-05-20-6-7	SB-06-20-0-0.5	SB-06-20-2-3	FD-110520-1	SB-06-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-0.5	2.0-3.0	4.0-5.0	4.0-5.0
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-05-20	SB-06-20	SB-06-20	SB-06-20	SB-06-20
Sample ID		SB-05-20-6-7	SB-06-20-0-0.5	SB-06-20-2-3	FD-110520-1	SB-06-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-0.5	2.0-3.0	4.0-5.0	4.0-5.0
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-05-20	SB-06-20	SB-06-20	SB-06-20	SB-06-20
Sample ID		SB-05-20-6-7	SB-06-20-0-0.5	SB-06-20-2-3	FD-110520-1	SB-06-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-0.5	2.0-3.0	4.0-5.0	4.0-5.0
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units				Field Duplicate (1-1)	
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-05-20	SB-06-20	SB-06-20	SB-06-20	SB-06-20
Sample ID		SB-05-20-6-7	SB-06-20-0-0.5	SB-06-20-2-3	FD-110520-1	SB-06-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-0.5	2.0-3.0	4.0-5.0	4.0-5.0
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units				Field Duplicate (1-1)	
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-05-20	SB-06-20	SB-06-20	SB-06-20	SB-06-20
Sample ID		SB-05-20-6-7	SB-06-20-0-0.5	SB-06-20-2-3	FD-110520-1	SB-06-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-0.5	2.0-3.0	4.0-5.0	4.0-5.0
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units				Field Duplicate (1-1)	
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1221	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1232	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1242	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1248	MG/KG	0.17 J	0.056 J	0.90	0.29 U	0.27 U
Aroclor 1254	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1260	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1262	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Aroclor 1268	MG/KG	0.26 U	0.25 U	0.29 U	0.29 U	0.27 U
Total PCBs	MG/KG	0.17	0.056	0.9	0.29 U	0.27 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-05-20	SB-06-20	SB-06-20	SB-06-20	SB-06-20
Sample ID		SB-05-20-6-7	SB-06-20-0-0.5	SB-06-20-2-3	FD-110520-1	SB-06-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-0.5	2.0-3.0	4.0-5.0	4.0-5.0
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units				Field Duplicate (1-1)	
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-06-20	SB-07-20	SB-08-20	SB-08-20	SB-09-20
Sample ID		SB-06-20-6-7	SB-07-20-0-4	SB-08-20-0-1	SB-08-20-2-3	SB-09-20-0.6-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-4.0	0.0-1.0	2.0-3.0	0.6-4.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-06-20	SB-07-20	SB-08-20	SB-08-20	SB-09-20
Sample ID		SB-06-20-6-7	SB-07-20-0-4	SB-08-20-0-1	SB-08-20-2-3	SB-09-20-0.6-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-4.0	0.0-1.0	2.0-3.0	0.6-4.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-06-20	SB-07-20	SB-08-20	SB-08-20	SB-09-20
Sample ID		SB-06-20-6-7	SB-07-20-0-4	SB-08-20-0-1	SB-08-20-2-3	SB-09-20-0.6-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-4.0	0.0-1.0	2.0-3.0	0.6-4.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-06-20	SB-07-20	SB-08-20	SB-08-20	SB-09-20
Sample ID		SB-06-20-6-7	SB-07-20-0-4	SB-08-20-0-1	SB-08-20-2-3	SB-09-20-0.6-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-4.0	0.0-1.0	2.0-3.0	0.6-4.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-06-20	SB-07-20	SB-08-20	SB-08-20	SB-09-20
Sample ID		SB-06-20-6-7	SB-07-20-0-4	SB-08-20-0-1	SB-08-20-2-3	SB-09-20-0.6-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-4.0	0.0-1.0	2.0-3.0	0.6-4.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1221	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1232	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1242	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1248	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1254	MG/KG	0.26 U	5.8 U	0.25 J	0.29 U	0.23 U
Aroclor 1260	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1262	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Aroclor 1268	MG/KG	0.26 U	5.8 U	0.28 U	0.29 U	0.23 U
Total PCBs	MG/KG	0.26 U	5.8 U	0.25	0.29 U	0.23 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-06-20	SB-07-20	SB-08-20	SB-08-20	SB-09-20
Sample ID		SB-06-20-6-7	SB-07-20-0-4	SB-08-20-0-1	SB-08-20-2-3	SB-09-20-0.6-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		6.0-7.0	0.0-4.0	0.0-1.0	2.0-3.0	0.6-4.0
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-10-20	SB-10-20	SB-10-20	SB-11-20	SB-12-20
Sample ID		SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-5.0	8.5-9.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	0.0060 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	0.0060 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	0.0060 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	0.0060 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	0.0060 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	0.0060 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	0.0046 J	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	0.0060 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	0.0060 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	0.0060 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	0.0060 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	0.0060 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	0.0060 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	0.0060 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	0.0013 J	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	0.0060 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	0.0060 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	0.0060 U	NA
2-Hexanone	MG/KG	NA	NA	NA	0.030 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	0.030 U	NA
Acetone	MG/KG	NA	NA	NA	0.21	NA
Benzene	MG/KG	NA	NA	NA	0.0060 U	NA
Bromodichloromethane	MG/KG	NA	NA	NA	0.0060 U	NA
Bromoform	MG/KG	NA	NA	NA	0.0060 U	NA
Bromomethane	MG/KG	NA	NA	NA	0.0060 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-10-20	SB-10-20	SB-10-20	SB-11-20	SB-12-20
Sample ID		SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-5.0	8.5-9.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	0.0060 U	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	0.0060 U	NA
Chlorobenzene	MG/KG	NA	NA	NA	0.0060 U	NA
Chloroethane	MG/KG	NA	NA	NA	0.0060 U	NA
Chloroform	MG/KG	NA	NA	NA	0.0060 U	NA
Chloromethane	MG/KG	NA	NA	NA	0.0060 U	NA
Cyclohexane	MG/KG	NA	NA	NA	0.0060 U	NA
Dibromochloromethane	MG/KG	NA	NA	NA	0.0060 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	0.0060 UJ	NA
Ethylbenzene	MG/KG	NA	NA	NA	0.0060 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	0.0060 U	NA
Methyl acetate	MG/KG	NA	NA	NA	0.030 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	0.030 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	0.0060 U	NA
Methylcyclohexane	MG/KG	NA	NA	NA	0.0060 U	NA
Methylene chloride	MG/KG	NA	NA	NA	0.0060 U	NA
Styrene	MG/KG	NA	NA	NA	0.0060 U	NA
Tetrachloroethene	MG/KG	NA	NA	NA	0.0060 U	NA
Toluene	MG/KG	NA	NA	NA	0.00058 J	NA
Trichloroethene	MG/KG	NA	NA	NA	0.0060 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	0.0060 U	NA
Vinyl chloride	MG/KG	NA	NA	NA	0.0060 U	NA
Xylene (total)	MG/KG	NA	NA	NA	0.012 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-10-20	SB-10-20	SB-10-20	SB-11-20	SB-12-20
Sample ID		SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-5.0	8.5-9.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-10-20	SB-10-20	SB-10-20	SB-11-20	SB-12-20
Sample ID		SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-5.0	8.5-9.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-10-20	SB-10-20	SB-10-20	SB-11-20	SB-12-20
Sample ID		SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-5.0	8.5-9.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1221	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1232	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1242	MG/KG	2.3	0.32 J	0.26 U	0.24 J	0.25 U
Aroclor 1248	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1254	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1260	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1262	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Aroclor 1268	MG/KG	0.23 U	0.28 U	0.26 U	0.29 U	0.25 U
Total PCBs	MG/KG	2.3	0.32	0.26 U	0.24	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-10-20	SB-10-20	SB-10-20	SB-11-20	SB-12-20
Sample ID		SB-10-20-1-1.5	SB-10-20-2-2.5	SB-10-20-4-5	SB-11-20-1-5	SB-12-20-8.5-9.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-5.0	8.5-9.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID		SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	0.25 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	0.25 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	0.25 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	0.25 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	0.25 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	0.25 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	0.25 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	0.25 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	0.25 U	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	0.25 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	0.25 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	0.25 U	NA
2-Hexanone	MG/KG	NA	NA	NA	1.3 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	1.3 U	NA
Acetone	MG/KG	NA	NA	NA	1.3 U	NA
Benzene	MG/KG	NA	NA	NA	0.25 U	NA
Bromodichloromethane	MG/KG	NA	NA	NA	0.25 U	NA
Bromoform	MG/KG	NA	NA	NA	0.25 U	NA
Bromomethane	MG/KG	NA	NA	NA	0.25 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID		SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	0.25 U	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	0.25 U	NA
Chlorobenzene	MG/KG	NA	NA	NA	0.25 U	NA
Chloroethane	MG/KG	NA	NA	NA	0.25 U	NA
Chloroform	MG/KG	NA	NA	NA	0.25 U	NA
Chloromethane	MG/KG	NA	NA	NA	0.25 U	NA
Cyclohexane	MG/KG	NA	NA	NA	0.25 U	NA
Dibromochloromethane	MG/KG	NA	NA	NA	0.25 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	0.25 U	NA
Ethylbenzene	MG/KG	NA	NA	NA	0.25 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	0.25 U	NA
Methyl acetate	MG/KG	NA	NA	NA	1.3 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	1.3 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	0.25 U	NA
Methylcyclohexane	MG/KG	NA	NA	NA	0.25 U	NA
Methylene chloride	MG/KG	NA	NA	NA	0.25 U	NA
Styrene	MG/KG	NA	NA	NA	0.25 U	NA
Tetrachloroethene	MG/KG	NA	NA	NA	0.25 U	NA
Toluene	MG/KG	NA	NA	NA	0.25 U	NA
Trichloroethene	MG/KG	NA	NA	NA	0.25 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	0.25 U	NA
Vinyl chloride	MG/KG	NA	NA	NA	0.25 U	NA
Xylene (total)	MG/KG	NA	NA	NA	0.51 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID		SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID		SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID		SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1221	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1232	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1242	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1248	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1254	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	2.0
Aroclor 1260	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1262	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Aroclor 1268	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	0.24 U
Total PCBs	MG/KG	0.24 U	0.19 U	0.24 U	0.29 U	2

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-13-20	SB-13-20	SB-14-20	SB-14-20	SB-15-20
Sample ID		SB-13-20-8-10	SB-13-20-10-12	SB-14-20-0-2	SB-14-20-4-5	SB-15-20-0-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		8.0-10.0	10.0-12.0	0.0-2.0	4.0-5.0	0.0-2.0
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID		SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	0.0052 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	0.0052 U	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0052 U	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	0.0052 U	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	0.0052 U	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	0.0052 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	0.0052 U	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	0.0052 U	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	0.0052 U	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	0.0052 U	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	0.0052 U	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	0.0052 U	NA	NA	NA	NA
2-Hexanone	MG/KG	0.026 U	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	0.026 U	NA	NA	NA	NA
Acetone	MG/KG	0.011 J	NA	NA	NA	NA
Benzene	MG/KG	0.0052 U	NA	NA	NA	NA
Bromodichloromethane	MG/KG	0.0052 U	NA	NA	NA	NA
Bromoform	MG/KG	0.0052 U	NA	NA	NA	NA
Bromomethane	MG/KG	0.0052 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID		SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	0.0052 U	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	0.0052 U	NA	NA	NA	NA
Chlorobenzene	MG/KG	0.0052 U	NA	NA	NA	NA
Chloroethane	MG/KG	0.0052 U	NA	NA	NA	NA
Chloroform	MG/KG	0.0052 U	NA	NA	NA	NA
Chloromethane	MG/KG	0.0052 U	NA	NA	NA	NA
Cyclohexane	MG/KG	0.0052 U	NA	NA	NA	NA
Dibromochloromethane	MG/KG	0.0052 U	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	0.0052 UJ	NA	NA	NA	NA
Ethylbenzene	MG/KG	0.0052 U	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	0.0052 U	NA	NA	NA	NA
Methyl acetate	MG/KG	0.026 U	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	0.026 U	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	0.0052 U	NA	NA	NA	NA
Methylcyclohexane	MG/KG	0.0052 U	NA	NA	NA	NA
Methylene chloride	MG/KG	0.023	NA	NA	NA	NA
Styrene	MG/KG	0.0052 U	NA	NA	NA	NA
Tetrachloroethene	MG/KG	0.0052 U	NA	NA	NA	NA
Toluene	MG/KG	0.0052 U	NA	NA	NA	NA
Trichloroethene	MG/KG	0.0052 U	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	0.0052 U	NA	NA	NA	NA
Vinyl chloride	MG/KG	0.0052 U	NA	NA	NA	NA
Xylene (total)	MG/KG	0.010 U	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID		SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID		SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID		SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1221	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1242	MG/KG	0.073 J	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1248	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1254	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1260	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1262	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1268	MG/KG	0.20 U	0.28 U	0.28 U	0.28 U	0.28 U
Total PCBs	MG/KG	0.073	0.28 U	0.28 U	0.28 U	0.28 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-15-20	SB-16-20	SB-16-20	SB-16-20	SB-17-20
Sample ID		SB-15-20-4-5	SB-16-20-2-4	SB-16-20-4-5	SB-16-20-6-8	SB-17-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	2.0-4.0	4.0-5.0	6.0-8.0	1.0-1.5
Date Sampled		11/04/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID		SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	0.0063 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	0.0063 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	0.0063 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	0.0063 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	0.0063 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	0.0063 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	0.0063 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	0.0063 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	0.0063 U	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	0.0063 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	0.0063 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	0.0015 J	NA
2-Hexanone	MG/KG	NA	NA	NA	0.031 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	0.031 U	NA
Acetone	MG/KG	NA	NA	NA	0.020 J	NA
Benzene	MG/KG	NA	NA	NA	0.0063 U	NA
Bromodichloromethane	MG/KG	NA	NA	NA	0.0063 U	NA
Bromoform	MG/KG	NA	NA	NA	0.0063 U	NA
Bromomethane	MG/KG	NA	NA	NA	0.0063 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID		SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	0.0063 U	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	0.0063 U	NA
Chlorobenzene	MG/KG	NA	NA	NA	0.0063 U	NA
Chloroethane	MG/KG	NA	NA	NA	0.0063 U	NA
Chloroform	MG/KG	NA	NA	NA	0.0063 U	NA
Chloromethane	MG/KG	NA	NA	NA	0.0063 U	NA
Cyclohexane	MG/KG	NA	NA	NA	0.0063 U	NA
Dibromochloromethane	MG/KG	NA	NA	NA	0.0063 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	0.0063 UJ	NA
Ethylbenzene	MG/KG	NA	NA	NA	0.0063 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	0.0063 U	NA
Methyl acetate	MG/KG	NA	NA	NA	0.031 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	0.031 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	0.0063 U	NA
Methylcyclohexane	MG/KG	NA	NA	NA	0.0063 U	NA
Methylene chloride	MG/KG	NA	NA	NA	0.0063 U	NA
Styrene	MG/KG	NA	NA	NA	0.0063 U	NA
Tetrachloroethene	MG/KG	NA	NA	NA	0.0063 U	NA
Toluene	MG/KG	NA	NA	NA	0.0022 J	NA
Trichloroethene	MG/KG	NA	NA	NA	0.0063 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	0.0063 U	NA
Vinyl chloride	MG/KG	NA	NA	NA	0.0063 U	NA
Xylene (total)	MG/KG	NA	NA	NA	0.013 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID		SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID		SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID		SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1221	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1232	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1242	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1248	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1254	MG/KG	0.27 U	0.29 U	0.27 U	4.6	0.16 J
Aroclor 1260	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1262	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Aroclor 1268	MG/KG	0.27 U	0.29 U	0.27 U	0.27 U	0.25 U
Total PCBs	MG/KG	0.27 U	0.29 U	0.27 U	4.6	0.16

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-17-20	SB-17-20	SB-17-20	SB-18-20	SB-19-20
Sample ID		SB-17-20-2-2.5	SB-17-20-4-5	SB-17-20-6-8	SB-18-20-0-3.7	SB-19-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	6.0-8.0	0.0-3.7	1.0-1.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID		SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled		11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID		SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled		11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID		SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled		11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID		SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled		11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID		SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled		11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1221	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1232	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1242	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1248	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1254	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1260	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1262	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Aroclor 1268	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U
Total PCBs	MG/KG	0.29 U	0.26 U	0.23 U	0.27 U	0.23 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-19-20	SB-19-20	SB-20-20	SB-20-20	SB-20-20
Sample ID		SB-19-20-2-2.5	SB-19-20-4-5	SB-20-20-1.0-1.5	SB-20-20-1.5-2.5	SB-20-20-4.0-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-2.5	4.0-5.0	1.0-1.5	1.5-2.5	4.0-4.5
Date Sampled		11/05/20	11/05/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID		SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID		SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID		SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID		SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID		SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1221	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1232	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1242	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1248	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1254	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1260	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1262	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Aroclor 1268	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U
Total PCBs	MG/KG	0.25 U	0.29 U	0.31 U	0.26 U	0.20 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-21-20	SB-21-20	SB-21-20	SB-22-20	SB-22-20
Sample ID		SB-21-20-1-1.5	SB-21-20-2-2.5	SB-21-20-4-5	SB-22-20-1.0-1.5	SB-22-20-2.0-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	2.0-2.5	4.0-5.0	1.0-1.5	2.0-2.5
Date Sampled		11/05/20	11/05/20	11/05/20	11/09/20	11/09/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-23-20
Sample ID		SB-22-20-4.0-4.5	SB-23-20-1-1.5	FD-110520-4	SB-23-20-2-2.5	SB-23-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-4.5	1.0-1.5	2.0-2.5	2.0-2.5	4.0-5.0
Date Sampled		11/09/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
2-Hexanone	MG/KG	NA	NA	0.029 U	0.028 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	0.029 U	0.028 U	NA
Acetone	MG/KG	NA	NA	0.033	0.034	NA
Benzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Bromodichloromethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Bromoform	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Bromomethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-23-20
Sample ID		SB-22-20-4.0-4.5	SB-23-20-1-1.5	FD-110520-4	SB-23-20-2-2.5	SB-23-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-4.5	1.0-1.5	2.0-2.5	2.0-2.5	4.0-5.0
Date Sampled		11/09/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**			Field Duplicate (1-1)		
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	0.0057 J	0.0029 J	NA
Carbon tetrachloride	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Chlorobenzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Chloroethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Chloroform	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Chloromethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Cyclohexane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Dibromochloromethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	0.0058 UJ	0.0057 UJ	NA
Ethylbenzene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Methyl acetate	MG/KG	NA	NA	0.029 U	0.028 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	0.029 U	0.028 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Methylcyclohexane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Methylene chloride	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Styrene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Tetrachloroethene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Toluene	MG/KG	NA	NA	0.00065 J	0.0057 U	NA
Trichloroethene	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Vinyl chloride	MG/KG	NA	NA	0.0058 U	0.0057 U	NA
Xylene (total)	MG/KG	NA	NA	0.012 U	0.011 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-23-20
Sample ID		SB-22-20-4.0-4.5	SB-23-20-1-1.5	FD-110520-4	SB-23-20-2-2.5	SB-23-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-4.5	1.0-1.5	2.0-2.5	2.0-2.5	4.0-5.0
Date Sampled		11/09/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-23-20
Sample ID		SB-22-20-4.0-4.5	SB-23-20-1-1.5	FD-110520-4	SB-23-20-2-2.5	SB-23-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-4.5	1.0-1.5	2.0-2.5	2.0-2.5	4.0-5.0
Date Sampled		11/09/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-23-20
Sample ID		SB-22-20-4.0-4.5	SB-23-20-1-1.5	FD-110520-4	SB-23-20-2-2.5	SB-23-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-4.5	1.0-1.5	2.0-2.5	2.0-2.5	4.0-5.0
Date Sampled		11/09/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1221	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1232	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1242	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1248	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1254	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1260	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1262	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Aroclor 1268	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U
Total PCBs	MG/KG	0.28 U	0.23 U	NA	0.26 U	0.29 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-22-20	SB-23-20	SB-23-20	SB-23-20	SB-23-20
Sample ID		SB-22-20-4.0-4.5	SB-23-20-1-1.5	FD-110520-4	SB-23-20-2-2.5	SB-23-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-4.5	1.0-1.5	2.0-2.5	2.0-2.5	4.0-5.0
Date Sampled		11/09/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	**Units**			Field Duplicate (1-1)		
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-24-20	SB-24-20	SB-25-20	SB-25-20	SB-26-20
Sample ID		SB-24-20-1-2	SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-2.0	3.0-4.0	1.0-2.0	3.0-4.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-24-20	SB-24-20	SB-25-20	SB-25-20	SB-26-20
Sample ID		SB-24-20-1-2	SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-2.0	3.0-4.0	1.0-2.0	3.0-4.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-24-20	SB-24-20	SB-25-20	SB-25-20	SB-26-20
Sample ID		SB-24-20-1-2	SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-2.0	3.0-4.0	1.0-2.0	3.0-4.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-24-20	SB-24-20	SB-25-20	SB-25-20	SB-26-20
Sample ID		SB-24-20-1-2	SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-2.0	3.0-4.0	1.0-2.0	3.0-4.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-24-20	SB-24-20	SB-25-20	SB-25-20	SB-26-20
Sample ID		SB-24-20-1-2	SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-2.0	3.0-4.0	1.0-2.0	3.0-4.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1221	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1232	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1242	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1248	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	2.3 J
Aroclor 1254	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1260	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1262	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Aroclor 1268	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	0.24 U
Total PCBs	MG/KG	0.26 U	0.29 U	0.28 U	0.30 U	2.3

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-24-20	SB-24-20	SB-25-20	SB-25-20	SB-26-20
Sample ID		SB-24-20-1-2	SB-24-20-3-4	SB-25-20-1-2	SB-25-20-3-4	SB-26-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-2.0	3.0-4.0	1.0-2.0	3.0-4.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-26-20	SB-26-20	SB-27-20	SB-27-20	SB-27-20
Sample ID		SB-26-20-1-1.5	SB-26-20-3-4	SB-27-20-0-0.5	SB-27-20-1-1.5	SB-27-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	0.0-0.5	1.0-1.5	3.5-4.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-26-20	SB-26-20	SB-27-20	SB-27-20	SB-27-20
Sample ID		SB-26-20-1-1.5	SB-26-20-3-4	SB-27-20-0-0.5	SB-27-20-1-1.5	SB-27-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	0.0-0.5	1.0-1.5	3.5-4.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-26-20	SB-26-20	SB-27-20	SB-27-20	SB-27-20
Sample ID		SB-26-20-1-1.5	SB-26-20-3-4	SB-27-20-0-0.5	SB-27-20-1-1.5	SB-27-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	0.0-0.5	1.0-1.5	3.5-4.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-26-20	SB-26-20	SB-27-20	SB-27-20	SB-27-20
Sample ID		SB-26-20-1-1.5	SB-26-20-3-4	SB-27-20-0-0.5	SB-27-20-1-1.5	SB-27-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	0.0-0.5	1.0-1.5	3.5-4.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-26-20	SB-26-20	SB-27-20	SB-27-20	SB-27-20
Sample ID		SB-26-20-1-1.5	SB-26-20-3-4	SB-27-20-0-0.5	SB-27-20-1-1.5	SB-27-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	0.0-0.5	1.0-1.5	3.5-4.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1221	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1232	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1242	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1248	MG/KG	4.8	0.071 J	4.0 J	17	0.095 J
Aroclor 1254	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1260	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1262	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Aroclor 1268	MG/KG	0.43 U	0.24 U	0.26 U	2.5 U	0.30 U
Total PCBs	MG/KG	4.8	0.071	4	17	0.095

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-26-20	SB-26-20	SB-27-20	SB-27-20	SB-27-20
Sample ID		SB-26-20-1-1.5	SB-26-20-3-4	SB-27-20-0-0.5	SB-27-20-1-1.5	SB-27-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	3.0-4.0	0.0-0.5	1.0-1.5	3.5-4.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-28-20	SB-28-20	SB-28-20	SB-29-20	SB-29-20
Sample ID		SB-28-20-0-0.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-0-0.5	SB-29-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	1.0-1.5	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-28-20	SB-28-20	SB-28-20	SB-29-20	SB-29-20
Sample ID		SB-28-20-0-0.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-0-0.5	SB-29-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	1.0-1.5	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-28-20	SB-28-20	SB-28-20	SB-29-20	SB-29-20
Sample ID		SB-28-20-0-0.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-0-0.5	SB-29-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	1.0-1.5	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-28-20	SB-28-20	SB-28-20	SB-29-20	SB-29-20
Sample ID		SB-28-20-0-0.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-0-0.5	SB-29-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	1.0-1.5	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-28-20	SB-28-20	SB-28-20	SB-29-20	SB-29-20
Sample ID		SB-28-20-0-0.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-0-0.5	SB-29-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	1.0-1.5	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Aroclor 1221	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Aroclor 1232	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Aroclor 1242	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Aroclor 1248	MG/KG	0.23 U	32	2.0 J	0.27 U	53
Aroclor 1254	MG/KG	3.8 J	2.3 U	0.26 U	1.6	5.5 U
Aroclor 1260	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Aroclor 1262	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Aroclor 1268	MG/KG	0.23 U	2.3 U	0.26 U	0.27 U	5.5 U
Total PCBs	MG/KG	3.8	32	2	1.6	53

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-28-20	SB-28-20	SB-28-20	SB-29-20	SB-29-20
Sample ID		SB-28-20-0-0.5	SB-28-20-1-1.5	SB-28-20-4-5	SB-29-20-0-0.5	SB-29-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	1.0-1.5	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-29-20	SB-30-20	SB-30-20	SB-30-20	SB-31-20
Sample ID		SB-29-20-3-4	SB-30-20-0-0.5	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	2.0-4.0	5.0-6.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	0.0055 U	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	0.0055 U	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	0.0055 U	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	0.0055 U	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	0.0055 U	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	0.0055 U	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	0.0055 U	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	0.0055 U	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	0.0055 U	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	0.0055 U	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	0.0055 U	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	0.0055 U	NA	NA
2-Hexanone	MG/KG	NA	NA	0.027 U	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	0.027 U	NA	NA
Acetone	MG/KG	NA	NA	0.027 U	NA	NA
Benzene	MG/KG	NA	NA	0.0055 U	NA	NA
Bromodichloromethane	MG/KG	NA	NA	0.0055 U	NA	NA
Bromoform	MG/KG	NA	NA	0.0055 U	NA	NA
Bromomethane	MG/KG	NA	NA	0.0055 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-29-20	SB-30-20	SB-30-20	SB-30-20	SB-31-20
Sample ID		SB-29-20-3-4	SB-30-20-0-0.5	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	2.0-4.0	5.0-6.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	0.0055 U	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	0.0055 U	NA	NA
Chlorobenzene	MG/KG	NA	NA	0.0055 U	NA	NA
Chloroethane	MG/KG	NA	NA	0.0055 U	NA	NA
Chloroform	MG/KG	NA	NA	0.0055 U	NA	NA
Chloromethane	MG/KG	NA	NA	0.0055 U	NA	NA
Cyclohexane	MG/KG	NA	NA	0.0055 U	NA	NA
Dibromochloromethane	MG/KG	NA	NA	0.0055 U	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	0.0055 UJ	NA	NA
Ethylbenzene	MG/KG	NA	NA	0.0055 U	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	0.0055 U	NA	NA
Methyl acetate	MG/KG	NA	NA	0.027 U	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	0.027 U	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	0.0055 U	NA	NA
Methylcyclohexane	MG/KG	NA	NA	0.0055 U	NA	NA
Methylene chloride	MG/KG	NA	NA	0.0055 U	NA	NA
Styrene	MG/KG	NA	NA	0.0055 U	NA	NA
Tetrachloroethene	MG/KG	NA	NA	0.0055 U	NA	NA
Toluene	MG/KG	NA	NA	0.00042 J	NA	NA
Trichloroethene	MG/KG	NA	NA	0.0055 U	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	0.0055 U	NA	NA
Vinyl chloride	MG/KG	NA	NA	0.0055 U	NA	NA
Xylene (total)	MG/KG	NA	NA	0.011 U	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-29-20	SB-30-20	SB-30-20	SB-30-20	SB-31-20
Sample ID		SB-29-20-3-4	SB-30-20-0-0.5	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	2.0-4.0	5.0-6.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-29-20	SB-30-20	SB-30-20	SB-30-20	SB-31-20
Sample ID		SB-29-20-3-4	SB-30-20-0-0.5	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	2.0-4.0	5.0-6.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-29-20	SB-30-20	SB-30-20	SB-30-20	SB-31-20
Sample ID		SB-29-20-3-4	SB-30-20-0-0.5	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	2.0-4.0	5.0-6.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1221	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1232	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1242	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1248	MG/KG	0.11 J	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1254	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1260	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1262	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Aroclor 1268	MG/KG	0.28 U	0.25 U	0.26 U	0.28 U	0.25 U
Total PCBs	MG/KG	0.59	0.25 U	0.26 U	0.28 U	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-29-20	SB-30-20	SB-30-20	SB-30-20	SB-31-20
Sample ID		SB-29-20-3-4	SB-30-20-0-0.5	SB-30-20-2-4	SB-30-20-5-6	SB-31-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	2.0-4.0	5.0-6.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-31-20	SB-31-20	SB-32-20	SB-32-20	SB-33-20
Sample ID		SB-31-20-1-1.5	SB-31-20-4-5	SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	4.0-5.0	2.5-3.5	4.5-5.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/04/20	11/04/20	11/04/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-31-20	SB-31-20	SB-32-20	SB-32-20	SB-33-20
Sample ID		SB-31-20-1-1.5	SB-31-20-4-5	SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	4.0-5.0	2.5-3.5	4.5-5.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-31-20	SB-31-20	SB-32-20	SB-32-20	SB-33-20
Sample ID		SB-31-20-1-1.5	SB-31-20-4-5	SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	4.0-5.0	2.5-3.5	4.5-5.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/04/20	11/04/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-31-20	SB-31-20	SB-32-20	SB-32-20	SB-33-20
Sample ID		SB-31-20-1-1.5	SB-31-20-4-5	SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	4.0-5.0	2.5-3.5	4.5-5.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/04/20	11/04/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-31-20	SB-31-20	SB-32-20	SB-32-20	SB-33-20
Sample ID		SB-31-20-1-1.5	SB-31-20-4-5	SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	4.0-5.0	2.5-3.5	4.5-5.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1221	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1232	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1242	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1248	MG/KG	3.9 J	0.27 U	0.25 U	0.25 J	0.26 U
Aroclor 1254	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1260	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1262	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Aroclor 1268	MG/KG	0.24 U	0.27 U	0.25 U	0.27 U	0.26 U
Total PCBs	MG/KG	3.9	0.27 U	0.25 U	0.25	0.26 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-31-20	SB-31-20	SB-32-20	SB-32-20	SB-33-20
Sample ID		SB-31-20-1-1.5	SB-31-20-4-5	SB-32-20-2.5-3.5	SB-32-20-4.5-5.5	SB-33-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	4.0-5.0	2.5-3.5	4.5-5.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/04/20	11/04/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-33-20	SB-34-20	SB-34-20	SB-34-20	SB-34-20
Sample ID		SB-33-20-3-4	SB-34-20-0.0-0.5	FD-110920-1	SB-34-20-3.0-4.0	SB-34-20-4.0-5.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		11/04/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-33-20	SB-34-20	SB-34-20	SB-34-20	SB-34-20
Sample ID		SB-33-20-3-4	SB-34-20-0.0-0.5	FD-110920-1	SB-34-20-3.0-4.0	SB-34-20-4.0-5.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		11/04/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**			Field Duplicate (1-1)		
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-33-20	SB-34-20	SB-34-20	SB-34-20	SB-34-20
Sample ID		SB-33-20-3-4	SB-34-20-0.0-0.5	FD-110920-1	SB-34-20-3.0-4.0	SB-34-20-4.0-5.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		11/04/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-33-20	SB-34-20	SB-34-20	SB-34-20	SB-34-20
Sample ID		SB-33-20-3-4	SB-34-20-0.0-0.5	FD-110920-1	SB-34-20-3.0-4.0	SB-34-20-4.0-5.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		11/04/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-33-20	SB-34-20	SB-34-20	SB-34-20	SB-34-20
Sample ID		SB-33-20-3-4	SB-34-20-0.0-0.5	FD-110920-1	SB-34-20-3.0-4.0	SB-34-20-4.0-5.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		11/04/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1221	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1232	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1242	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1248	MG/KG	0.23 U	6.6	17 NJ	3.1 NJ	0.93 NJ
Aroclor 1254	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1260	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1262	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Aroclor 1268	MG/KG	0.23 U	0.25 U	1.1 U	0.23 U	0.26 U
Total PCBs	MG/KG	0.23 U	6.6	17	3.1	0.93

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-33-20	SB-34-20	SB-34-20	SB-34-20	SB-34-20
Sample ID		SB-33-20-3-4	SB-34-20-0.0-0.5	FD-110920-1	SB-34-20-3.0-4.0	SB-34-20-4.0-5.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	4.0-5.0
Date Sampled		11/04/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units			Field Duplicate (1-1)		
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-35-20	SB-35-20	SB-36-20	SB-36-20	SB-37-20
Sample ID		SB-35-20-0.0-0.5	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0	SB-37-20-0.6-3.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	8.0-9.0	1.0-1.5	5.0-6.0	0.6-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	0.11 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	0.11 U	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	0.11 U	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	0.11 U	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	0.11 U	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	0.11 U	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	0.11 U	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	0.11 U	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	0.11 U	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	0.11 U	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	0.11 U	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	0.11 U	NA	NA	NA
2-Hexanone	MG/KG	NA	0.56 U	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	0.56 U	NA	NA	NA
Acetone	MG/KG	NA	0.56 U	NA	NA	NA
Benzene	MG/KG	NA	0.11 U	NA	NA	NA
Bromodichloromethane	MG/KG	NA	0.11 U	NA	NA	NA
Bromoform	MG/KG	NA	0.11 U	NA	NA	NA
Bromomethane	MG/KG	NA	0.11 U	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-35-20	SB-35-20	SB-36-20	SB-36-20	SB-37-20
Sample ID		SB-35-20-0.0-0.5	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0	SB-37-20-0.6-3.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	8.0-9.0	1.0-1.5	5.0-6.0	0.6-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	0.11 U	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	0.11 U	NA	NA	NA
Chlorobenzene	MG/KG	NA	0.11 U	NA	NA	NA
Chloroethane	MG/KG	NA	0.11 U	NA	NA	NA
Chloroform	MG/KG	NA	0.11 U	NA	NA	NA
Chloromethane	MG/KG	NA	0.11 U	NA	NA	NA
Cyclohexane	MG/KG	NA	0.11 U	NA	NA	NA
Dibromochloromethane	MG/KG	NA	0.11 U	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	0.11 U	NA	NA	NA
Ethylbenzene	MG/KG	NA	0.11 U	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	0.11 U	NA	NA	NA
Methyl acetate	MG/KG	NA	0.56 U	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	0.56 U	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	0.11 U	NA	NA	NA
Methylcyclohexane	MG/KG	NA	0.11 U	NA	NA	NA
Methylene chloride	MG/KG	NA	0.11 U	NA	NA	NA
Styrene	MG/KG	NA	0.11 U	NA	NA	NA
Tetrachloroethene	MG/KG	NA	0.11 U	NA	NA	NA
Toluene	MG/KG	NA	0.11 U	NA	NA	NA
Trichloroethene	MG/KG	NA	0.11 U	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	0.11 U	NA	NA	NA
Vinyl chloride	MG/KG	NA	0.11 U	NA	NA	NA
Xylene (total)	MG/KG	NA	0.23 U	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-35-20	SB-35-20	SB-36-20	SB-36-20	SB-37-20
Sample ID		SB-35-20-0.0-0.5	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0	SB-37-20-0.6-3.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	8.0-9.0	1.0-1.5	5.0-6.0	0.6-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-35-20	SB-35-20	SB-36-20	SB-36-20	SB-37-20
Sample ID		SB-35-20-0.0-0.5	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0	SB-37-20-0.6-3.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	8.0-9.0	1.0-1.5	5.0-6.0	0.6-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-35-20	SB-35-20	SB-36-20	SB-36-20	SB-37-20
Sample ID		SB-35-20-0.0-0.5	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0	SB-37-20-0.6-3.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	8.0-9.0	1.0-1.5	5.0-6.0	0.6-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1221	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1232	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1242	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1248	MG/KG	5.9	13	0.94	5.7 J	1.4 J+
Aroclor 1254	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1260	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1262	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Aroclor 1268	MG/KG	0.26 U	2.4 U	0.22 U	0.97 U	0.23 U
Total PCBs	MG/KG	5.9	13	0.94	5.7	1.4

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-35-20	SB-35-20	SB-36-20	SB-36-20	SB-37-20
Sample ID		SB-35-20-0.0-0.5	SB-35-20-8.0-9.0	SB-36--20-1.0-1.5	SB-36--20-5.0-6.0	SB-37-20-0.6-3.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	8.0-9.0	1.0-1.5	5.0-6.0	0.6-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-37-20	SB-38-20	SB-38-20	SB-38-20	SB-39-20
Sample ID		SB-37-20-3.0-5.0	SB-38-20-0.0-0.5	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-0.0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-5.0	0.0-0.5	1.0-1.5	3.0-4.0	0.0-0.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-37-20	SB-38-20	SB-38-20	SB-38-20	SB-39-20
Sample ID		SB-37-20-3.0-5.0	SB-38-20-0.0-0.5	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-0.0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-5.0	0.0-0.5	1.0-1.5	3.0-4.0	0.0-0.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-37-20	SB-38-20	SB-38-20	SB-38-20	SB-39-20
Sample ID		SB-37-20-3.0-5.0	SB-38-20-0.0-0.5	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-0.0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-5.0	0.0-0.5	1.0-1.5	3.0-4.0	0.0-0.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-37-20	SB-38-20	SB-38-20	SB-38-20	SB-39-20
Sample ID		SB-37-20-3.0-5.0	SB-38-20-0.0-0.5	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-0.0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-5.0	0.0-0.5	1.0-1.5	3.0-4.0	0.0-0.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-37-20	SB-38-20	SB-38-20	SB-38-20	SB-39-20
Sample ID		SB-37-20-3.0-5.0	SB-38-20-0.0-0.5	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-0.0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-5.0	0.0-0.5	1.0-1.5	3.0-4.0	0.0-0.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1221	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1232	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1242	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1248	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1254	MG/KG	0.24 U	2.4	6.0	0.27 U	19
Aroclor 1260	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1262	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Aroclor 1268	MG/KG	0.24 U	1.4 U	1.4 U	0.27 U	2.7 U
Total PCBs	MG/KG	0.24 U	2.4	6	0.27 U	19

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-37-20	SB-38-20	SB-38-20	SB-38-20	SB-39-20
Sample ID		SB-37-20-3.0-5.0	SB-38-20-0.0-0.5	SB-38-20-1.0-1.5	SB-38-20-3.0-4.0	SB-39-20-0.0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-5.0	0.0-0.5	1.0-1.5	3.0-4.0	0.0-0.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-39-20	SB-39-20	SB-40-20	SB-40-20	SB-41-20
Sample ID		SB-39-20-1.0-1.5	SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	0.0055 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	0.0055 U	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	0.0055 U	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	0.0055 U	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	0.0055 U	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	0.0055 U	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	0.0055 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	0.0055 U	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	0.0055 U	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	0.0055 U	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	0.0032 J	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	0.0055 U	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	0.0055 U	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	0.0055 U	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	0.0055 U	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	0.0055 U	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	0.0055 U	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	0.0055 U	NA	NA	NA
2-Hexanone	MG/KG	NA	0.028 U	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	0.028 U	NA	NA	NA
Acetone	MG/KG	NA	0.023 J	NA	NA	NA
Benzene	MG/KG	NA	0.0055 U	NA	NA	NA
Bromodichloromethane	MG/KG	NA	0.0055 U	NA	NA	NA
Bromoform	MG/KG	NA	0.0055 U	NA	NA	NA
Bromomethane	MG/KG	NA	0.0055 U	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-39-20	SB-39-20	SB-40-20	SB-40-20	SB-41-20
Sample ID		SB-39-20-1.0-1.5	SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	0.0055 U	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	0.0055 U	NA	NA	NA
Chlorobenzene	MG/KG	NA	0.0055 U	NA	NA	NA
Chloroethane	MG/KG	NA	0.0055 U	NA	NA	NA
Chloroform	MG/KG	NA	0.0055 U	NA	NA	NA
Chloromethane	MG/KG	NA	0.0055 U	NA	NA	NA
Cyclohexane	MG/KG	NA	0.0055 U	NA	NA	NA
Dibromochloromethane	MG/KG	NA	0.0055 U	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	0.0055 U	NA	NA	NA
Ethylbenzene	MG/KG	NA	0.0055 U	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	0.0055 U	NA	NA	NA
Methyl acetate	MG/KG	NA	0.028 U	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	0.028 U	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	0.0055 U	NA	NA	NA
Methylcyclohexane	MG/KG	NA	0.0055 U	NA	NA	NA
Methylene chloride	MG/KG	NA	0.0055 U	NA	NA	NA
Styrene	MG/KG	NA	0.0055 U	NA	NA	NA
Tetrachloroethene	MG/KG	NA	0.0055 U	NA	NA	NA
Toluene	MG/KG	NA	0.0055 U	NA	NA	NA
Trichloroethene	MG/KG	NA	0.0058	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	0.0054 J	NA	NA	NA
Vinyl chloride	MG/KG	NA	0.0055 U	NA	NA	NA
Xylene (total)	MG/KG	NA	0.011 U	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-39-20	SB-39-20	SB-40-20	SB-40-20	SB-41-20
Sample ID		SB-39-20-1.0-1.5	SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-39-20	SB-39-20	SB-40-20	SB-40-20	SB-41-20
Sample ID		SB-39-20-1.0-1.5	SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-39-20	SB-39-20	SB-40-20	SB-40-20	SB-41-20
Sample ID		SB-39-20-1.0-1.5	SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Aroclor 1221	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Aroclor 1232	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Aroclor 1242	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Aroclor 1248	MG/KG	0.25 U	0.24 U	0.28 U	4.7	9.9 U
Aroclor 1254	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	79
Aroclor 1260	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Aroclor 1262	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Aroclor 1268	MG/KG	0.25 U	0.24 U	0.28 U	0.22 U	9.9 U
Total PCBs	MG/KG	0.25 U	0.24 U	0.28 U	4.7	79

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-39-20	SB-39-20	SB-40-20	SB-40-20	SB-41-20
Sample ID		SB-39-20-1.0-1.5	SB-39-20-5.0-5.5	SB-40-20-1.0-1.5	SB-40-20-5.0-6.0	SB-41-20-0.0-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-1.5	5.0-5.5	1.0-1.5	5.0-6.0	0.0-1.5
Date Sampled		11/09/20	11/09/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-41-20	SB-42-20	SB-42-20	SB-43-20	SB-43-20
Sample ID		SB-41-20-3.0-4.0	SB-42-20-0.0-1.0	SB-42-20-2.5-3.5	SB-43-20-0-0.5	SB-43-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-1.0	2.5-3.5	0.0-0.5	2.0-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/06/20	11/06/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-41-20	SB-42-20	SB-42-20	SB-43-20	SB-43-20
Sample ID		SB-41-20-3.0-4.0	SB-42-20-0.0-1.0	SB-42-20-2.5-3.5	SB-43-20-0-0.5	SB-43-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-1.0	2.5-3.5	0.0-0.5	2.0-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	0.18 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-41-20	SB-42-20	SB-42-20	SB-43-20	SB-43-20
Sample ID		SB-41-20-3.0-4.0	SB-42-20-0.0-1.0	SB-42-20-2.5-3.5	SB-43-20-0-0.5	SB-43-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-1.0	2.5-3.5	0.0-0.5	2.0-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	0.18 UJ	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	0.18 U	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	0.18 U	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	0.18 U	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	0.18 U	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	1.7 U	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	0.18 U	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	0.18 U	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	0.18 U	NA
2-Chlorophenol	MG/KG	NA	NA	NA	0.34 U	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	0.18 U	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	0.18 U	NA
2-Nitroaniline	MG/KG	NA	NA	NA	0.34 U	NA
2-Nitrophenol	MG/KG	NA	NA	NA	0.18 U	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	0.34 U	NA
3-Nitroaniline	MG/KG	NA	NA	NA	0.34 U	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	0.34 U	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	0.18 U	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	0.18 U	NA
4-Chloroaniline	MG/KG	NA	NA	NA	0.18 U	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	0.18 U	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	0.34 U	NA
4-Nitroaniline	MG/KG	NA	NA	NA	0.34 U	NA
4-Nitrophenol	MG/KG	NA	NA	NA	0.34 U	NA
Acenaphthene	MG/KG	NA	NA	NA	0.18 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-41-20	SB-42-20	SB-42-20	SB-43-20	SB-43-20
Sample ID		SB-41-20-3.0-4.0	SB-42-20-0.0-1.0	SB-42-20-2.5-3.5	SB-43-20-0-0.5	SB-43-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-1.0	2.5-3.5	0.0-0.5	2.0-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	0.18 U	NA
Acetophenone	MG/KG	NA	NA	NA	0.18 U	NA
Anthracene	MG/KG	NA	NA	NA	0.18 U	NA
Atrazine	MG/KG	NA	NA	NA	0.18 U	NA
Benzaldehyde	MG/KG	NA	NA	NA	0.18 U	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	0.042 J	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	0.048 J	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	0.050 J	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	0.036 J	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	0.033 J	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	0.18 U	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	0.18 U	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	0.18 U	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	0.18 U	NA
Caprolactam	MG/KG	NA	NA	NA	0.18 U	NA
Carbazole	MG/KG	NA	NA	NA	0.18 U	NA
Chrysene	MG/KG	NA	NA	NA	0.042 J	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	0.18 U	NA
Dibenzofuran	MG/KG	NA	NA	NA	0.18 U	NA
Diethylphthalate	MG/KG	NA	NA	NA	0.18 U	NA
Dimethylphthalate	MG/KG	NA	NA	NA	0.18 U	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	0.18 U	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	0.18 U	NA
Fluoranthene	MG/KG	NA	NA	NA	0.10 J	NA
Fluorene	MG/KG	NA	NA	NA	0.18 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-41-20	SB-42-20	SB-42-20	SB-43-20	SB-43-20
Sample ID		SB-41-20-3.0-4.0	SB-42-20-0.0-1.0	SB-42-20-2.5-3.5	SB-43-20-0-0.5	SB-43-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-1.0	2.5-3.5	0.0-0.5	2.0-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	0.18 U	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	0.18 U	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	0.18 U	NA
Hexachloroethane	MG/KG	NA	NA	NA	0.18 U	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	0.030 J	NA
Isophorone	MG/KG	NA	NA	NA	0.18 U	NA
Naphthalene	MG/KG	NA	NA	NA	0.18 U	NA
Nitrobenzene	MG/KG	NA	NA	NA	0.18 U	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	0.18 U	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	0.18 U	NA
Pentachlorophenol	MG/KG	NA	NA	NA	0.34 U	NA
Phenanthrene	MG/KG	NA	NA	NA	0.057 J	NA
Phenol	MG/KG	NA	NA	NA	0.18 U	NA
Pyrene	MG/KG	NA	NA	NA	0.072 J	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Aroclor 1221	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Aroclor 1232	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Aroclor 1242	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Aroclor 1248	MG/KG	0.27 U	5.8 U	0.27 U	1.5	0.24 U
Aroclor 1254	MG/KG	0.27 U	29	0.29	0.22 U	0.24 U
Aroclor 1260	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Aroclor 1262	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Aroclor 1268	MG/KG	0.27 U	5.8 U	0.27 U	0.22 U	0.24 U
Total PCBs	MG/KG	0.27 U	29	0.29	1.5	0.24 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-41-20	SB-42-20	SB-42-20	SB-43-20	SB-43-20
Sample ID		SB-41-20-3.0-4.0	SB-42-20-0.0-1.0	SB-42-20-2.5-3.5	SB-43-20-0-0.5	SB-43-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.0-1.0	2.5-3.5	0.0-0.5	2.0-3.0
Date Sampled		11/09/20	11/09/20	11/09/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	4,840	NA
Antimony	MG/KG	NA	NA	NA	15.2 U	NA
Arsenic	MG/KG	NA	NA	NA	3.9	NA
Barium	MG/KG	NA	NA	NA	24.4	NA
Beryllium	MG/KG	NA	NA	NA	0.24	NA
Cadmium	MG/KG	NA	NA	NA	0.39	NA
Calcium	MG/KG	NA	NA	NA	83,800	NA
Chromium	MG/KG	NA	NA	NA	22.1	NA
Cobalt	MG/KG	NA	NA	NA	4.1	NA
Copper	MG/KG	NA	NA	NA	26.4	NA
Iron	MG/KG	NA	NA	NA	15,100	NA
Lead	MG/KG	NA	NA	NA	28.3	NA
Magnesium	MG/KG	NA	NA	NA	34,600	NA
Manganese	MG/KG	NA	NA	NA	484	NA
Mercury	MG/KG	NA	NA	NA	0.052	NA
Nickel	MG/KG	NA	NA	NA	20.8	NA
Potassium	MG/KG	NA	NA	NA	1,550	NA
Selenium	MG/KG	NA	NA	NA	4.1 U	NA
Silver	MG/KG	NA	NA	NA	0.61 U	NA
Sodium	MG/KG	NA	NA	NA	215	NA
Thallium	MG/KG	NA	NA	NA	6.1 U	NA
Vanadium	MG/KG	NA	NA	NA	14.8	NA
Zinc	MG/KG	NA	NA	NA	77.5	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-43-20	SB-44-20	SB-44-20	SB-44-20	SB-45-20
Sample ID		SB-43-20-4-5	SB-44-20-0-0.5	SB-44-20-4-5	SB-44-20-8-9	SB-45-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-0.5	4.0-5.0	8.0-9.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-43-20	SB-44-20	SB-44-20	SB-44-20	SB-45-20
Sample ID		SB-43-20-4-5	SB-44-20-0-0.5	SB-44-20-4-5	SB-44-20-8-9	SB-45-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-0.5	4.0-5.0	8.0-9.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-43-20	SB-44-20	SB-44-20	SB-44-20	SB-45-20
Sample ID		SB-43-20-4-5	SB-44-20-0-0.5	SB-44-20-4-5	SB-44-20-8-9	SB-45-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-0.5	4.0-5.0	8.0-9.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-43-20	SB-44-20	SB-44-20	SB-44-20	SB-45-20
Sample ID		SB-43-20-4-5	SB-44-20-0-0.5	SB-44-20-4-5	SB-44-20-8-9	SB-45-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-0.5	4.0-5.0	8.0-9.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-43-20	SB-44-20	SB-44-20	SB-44-20	SB-45-20
Sample ID		SB-43-20-4-5	SB-44-20-0-0.5	SB-44-20-4-5	SB-44-20-8-9	SB-45-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-0.5	4.0-5.0	8.0-9.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1221	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1232	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1242	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1248	MG/KG	0.11 J	63	0.38 J	0.61	930
Aroclor 1254	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1260	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1262	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Aroclor 1268	MG/KG	0.22 U	4.8 U	0.28 U	0.24 U	120 U
Total PCBs	MG/KG	0.11	63	0.38	0.61	930

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-43-20	SB-44-20	SB-44-20	SB-44-20	SB-45-20
Sample ID		SB-43-20-4-5	SB-44-20-0-0.5	SB-44-20-4-5	SB-44-20-8-9	SB-45-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-0.5	4.0-5.0	8.0-9.0	0.0-0.5
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-46-20
Sample ID		SB-45-20-2-3	SB-45-20-4-5	SB-46-20-0-0.5	SB-46-20-2-3	SB-46-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-0.5	2.0-3.0	4.0-5.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	0.0068 U	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	0.0068 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	0.0068 U	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	0.0068 U	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	0.0068 U	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	0.0068 U	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	0.0068 U	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	0.0068 U	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	0.0068 U	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	0.0068 U	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	0.0068 U	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	0.0068 U	NA
2-Hexanone	MG/KG	NA	NA	NA	0.034 U	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	0.034 U	NA
Acetone	MG/KG	NA	NA	NA	0.034 U	NA
Benzene	MG/KG	NA	NA	NA	0.0068 U	NA
Bromodichloromethane	MG/KG	NA	NA	NA	0.0068 U	NA
Bromoform	MG/KG	NA	NA	NA	0.0068 U	NA
Bromomethane	MG/KG	NA	NA	NA	0.0068 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-46-20
Sample ID		SB-45-20-2-3	SB-45-20-4-5	SB-46-20-0-0.5	SB-46-20-2-3	SB-46-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-0.5	2.0-3.0	4.0-5.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	0.0068 U	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	0.0068 U	NA
Chlorobenzene	MG/KG	NA	NA	NA	0.0068 U	NA
Chloroethane	MG/KG	NA	NA	NA	0.0068 U	NA
Chloroform	MG/KG	NA	NA	NA	0.0068 U	NA
Chloromethane	MG/KG	NA	NA	NA	0.0068 U	NA
Cyclohexane	MG/KG	NA	NA	NA	0.0068 U	NA
Dibromochloromethane	MG/KG	NA	NA	NA	0.0068 U	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	0.0068 UJ	NA
Ethylbenzene	MG/KG	NA	NA	NA	0.0068 U	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	0.0068 U	NA
Methyl acetate	MG/KG	NA	NA	NA	0.034 U	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	0.034 U	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	0.0068 U	NA
Methylcyclohexane	MG/KG	NA	NA	NA	0.0068 U	NA
Methylene chloride	MG/KG	NA	NA	NA	0.0068 U	NA
Styrene	MG/KG	NA	NA	NA	0.0068 U	NA
Tetrachloroethene	MG/KG	NA	NA	NA	0.0068 U	NA
Toluene	MG/KG	NA	NA	NA	0.00077 J	NA
Trichloroethene	MG/KG	NA	NA	NA	0.0068 U	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	0.0068 U	NA
Vinyl chloride	MG/KG	NA	NA	NA	0.0068 U	NA
Xylene (total)	MG/KG	NA	NA	NA	0.014 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-46-20
Sample ID		SB-45-20-2-3	SB-45-20-4-5	SB-46-20-0-0.5	SB-46-20-2-3	SB-46-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-0.5	2.0-3.0	4.0-5.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-46-20
Sample ID		SB-45-20-2-3	SB-45-20-4-5	SB-46-20-0-0.5	SB-46-20-2-3	SB-46-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-0.5	2.0-3.0	4.0-5.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-46-20
Sample ID		SB-45-20-2-3	SB-45-20-4-5	SB-46-20-0-0.5	SB-46-20-2-3	SB-46-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-0.5	2.0-3.0	4.0-5.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Aroclor 1221	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Aroclor 1232	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Aroclor 1242	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Aroclor 1248	MG/KG	0.98 J	6.0	0.81 J	0.19 U	0.21 U
Aroclor 1254	MG/KG	0.25 U	1.1 U	0.27 U	0.53	0.21 U
Aroclor 1260	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Aroclor 1262	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Aroclor 1268	MG/KG	0.25 U	1.1 U	0.27 U	0.19 U	0.21 U
Total PCBs	MG/KG	0.98	6	0.81	0.53	0.21 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-45-20	SB-45-20	SB-46-20	SB-46-20	SB-46-20
Sample ID		SB-45-20-2-3	SB-45-20-4-5	SB-46-20-0-0.5	SB-46-20-2-3	SB-46-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-0.5	2.0-3.0	4.0-5.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-47-20	SB-47-20	SB-47-20	SB-48-20	SB-48-20
Sample ID		SB-47-20-0-0.5	SB-47-20-2-3	SB-47-20-4-4.8	SB-48-20-0-0.5	SB-48-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	2.0-3.0	4.0-4.8	0.0-0.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-47-20	SB-47-20	SB-47-20	SB-48-20	SB-48-20
Sample ID		SB-47-20-0-0.5	SB-47-20-2-3	SB-47-20-4-4.8	SB-48-20-0-0.5	SB-48-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	2.0-3.0	4.0-4.8	0.0-0.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	0.91 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-47-20	SB-47-20	SB-47-20	SB-48-20	SB-48-20
Sample ID		SB-47-20-0-0.5	SB-47-20-2-3	SB-47-20-4-4.8	SB-48-20-0-0.5	SB-48-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	2.0-3.0	4.0-4.8	0.0-0.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/03/20	11/03/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	0.91 UJ	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	0.91 U	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	0.91 U	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	0.91 U	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	0.91 U	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	8.9 U	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	0.91 U	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	0.91 U	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	0.91 U	NA
2-Chlorophenol	MG/KG	NA	NA	NA	1.8 U	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	0.91 U	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	0.91 U	NA
2-Nitroaniline	MG/KG	NA	NA	NA	1.8 UJ	NA
2-Nitrophenol	MG/KG	NA	NA	NA	0.91 U	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	1.8 U	NA
3-Nitroaniline	MG/KG	NA	NA	NA	1.8 U	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	1.8 U	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	0.91 U	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	0.91 U	NA
4-Chloroaniline	MG/KG	NA	NA	NA	0.91 U	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	0.91 U	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	1.8 U	NA
4-Nitroaniline	MG/KG	NA	NA	NA	1.8 U	NA
4-Nitrophenol	MG/KG	NA	NA	NA	1.8 UJ	NA
Acenaphthene	MG/KG	NA	NA	NA	0.17 J	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-47-20	SB-47-20	SB-47-20	SB-48-20	SB-48-20
Sample ID		SB-47-20-0-0.5	SB-47-20-2-3	SB-47-20-4-4.8	SB-48-20-0-0.5	SB-48-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	2.0-3.0	4.0-4.8	0.0-0.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	0.91 U	NA
Acetophenone	MG/KG	NA	NA	NA	0.91 U	NA
Anthracene	MG/KG	NA	NA	NA	0.36 J	NA
Atrazine	MG/KG	NA	NA	NA	0.91 U	NA
Benzaldehyde	MG/KG	NA	NA	NA	0.91 U	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	1.2	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	1.4	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	1.6	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	0.89 J	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	0.66 J	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	0.91 U	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	0.91 U	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	0.91 U	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	0.91 U	NA
Caprolactam	MG/KG	NA	NA	NA	0.91 U	NA
Carbazole	MG/KG	NA	NA	NA	0.16 J	NA
Chrysene	MG/KG	NA	NA	NA	1.2	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	0.23 J	NA
Dibenzofuran	MG/KG	NA	NA	NA	0.91 U	NA
Diethylphthalate	MG/KG	NA	NA	NA	0.91 U	NA
Dimethylphthalate	MG/KG	NA	NA	NA	0.91 U	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	0.91 U	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	0.91 UJ	NA
Fluoranthene	MG/KG	NA	NA	NA	2.2	NA
Fluorene	MG/KG	NA	NA	NA	0.12 J	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-47-20	SB-47-20	SB-47-20	SB-48-20	SB-48-20
Sample ID		SB-47-20-0-0.5	SB-47-20-2-3	SB-47-20-4-4.8	SB-48-20-0-0.5	SB-48-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	2.0-3.0	4.0-4.8	0.0-0.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	0.91 U	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	0.91 U	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	0.91 UJ	NA
Hexachloroethane	MG/KG	NA	NA	NA	0.91 U	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	0.79 J	NA
Isophorone	MG/KG	NA	NA	NA	0.91 U	NA
Naphthalene	MG/KG	NA	NA	NA	0.91 U	NA
Nitrobenzene	MG/KG	NA	NA	NA	0.91 U	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	0.91 U	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	0.91 U	NA
Pentachlorophenol	MG/KG	NA	NA	NA	1.8 U	NA
Phenanthrene	MG/KG	NA	NA	NA	1.4	NA
Phenol	MG/KG	NA	NA	NA	0.91 U	NA
Pyrene	MG/KG	NA	NA	NA	1.9	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	1.1 U
Aroclor 1221	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	1.1 U
Aroclor 1232	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	1.1 U
Aroclor 1242	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	1.1 U
Aroclor 1248	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	20
Aroclor 1254	MG/KG	0.20 U	0.24 U	0.27 U	3.6 J	1.1 U
Aroclor 1260	MG/KG	0.19 J	0.24 U	0.27 U	0.26 U	1.1 U
Aroclor 1262	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	1.1 U
Aroclor 1268	MG/KG	0.20 U	0.24 U	0.27 U	0.26 U	1.1 U
Total PCBs	MG/KG	0.19	0.24 U	0.27 U	3.6	20

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-47-20	SB-47-20	SB-47-20	SB-48-20	SB-48-20
Sample ID		SB-47-20-0-0.5	SB-47-20-2-3	SB-47-20-4-4.8	SB-48-20-0-0.5	SB-48-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	2.0-3.0	4.0-4.8	0.0-0.5	1.0-2.0
Date Sampled		11/06/20	11/06/20	11/06/20	11/03/20	11/03/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	18,100 J	NA
Antimony	MG/KG	NA	NA	NA	15.5 UJ	NA
Arsenic	MG/KG	NA	NA	NA	4.0	NA
Barium	MG/KG	NA	NA	NA	138 J	NA
Beryllium	MG/KG	NA	NA	NA	1.1 J	NA
Cadmium	MG/KG	NA	NA	NA	0.15 J	NA
Calcium	MG/KG	NA	NA	NA	29,800 J	NA
Chromium	MG/KG	NA	NA	NA	48.5 J	NA
Cobalt	MG/KG	NA	NA	NA	15.9	NA
Copper	MG/KG	NA	NA	NA	76.4 J	NA
Iron	MG/KG	NA	NA	NA	34,900 J	NA
Lead	MG/KG	NA	NA	NA	72.0 J	NA
Magnesium	MG/KG	NA	NA	NA	13,900 J	NA
Manganese	MG/KG	NA	NA	NA	514 J	NA
Mercury	MG/KG	NA	NA	NA	0.028	NA
Nickel	MG/KG	NA	NA	NA	97.8 J	NA
Potassium	MG/KG	NA	NA	NA	3,010 J	NA
Selenium	MG/KG	NA	NA	NA	4.1 U	NA
Silver	MG/KG	NA	NA	NA	0.40 J	NA
Sodium	MG/KG	NA	NA	NA	149	NA
Thallium	MG/KG	NA	NA	NA	6.2 U	NA
Vanadium	MG/KG	NA	NA	NA	31.8 J	NA
Zinc	MG/KG	NA	NA	NA	120 J-	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-48-20	SB-49-20	SB-49-20	SB-50-20	SB-50-20
Sample ID		SB-48-20-2-3	SB-49-20-0.0-0.5	SB-49-20-1.5-2.0	SB-50-20-0-1	SB-50-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	1.5-2.0	0.0-1.0	3.5-4.5
Date Sampled		11/03/20	11/09/20	11/09/20	11/04/20	11/04/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-48-20	SB-49-20	SB-49-20	SB-50-20	SB-50-20
Sample ID		SB-48-20-2-3	SB-49-20-0.0-0.5	SB-49-20-1.5-2.0	SB-50-20-0-1	SB-50-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	1.5-2.0	0.0-1.0	3.5-4.5
Date Sampled		11/03/20	11/09/20	11/09/20	11/04/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-48-20	SB-49-20	SB-49-20	SB-50-20	SB-50-20
Sample ID		SB-48-20-2-3	SB-49-20-0.0-0.5	SB-49-20-1.5-2.0	SB-50-20-0-1	SB-50-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	1.5-2.0	0.0-1.0	3.5-4.5
Date Sampled		11/03/20	11/09/20	11/09/20	11/04/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-48-20	SB-49-20	SB-49-20	SB-50-20	SB-50-20
Sample ID		SB-48-20-2-3	SB-49-20-0.0-0.5	SB-49-20-1.5-2.0	SB-50-20-0-1	SB-50-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	1.5-2.0	0.0-1.0	3.5-4.5
Date Sampled		11/03/20	11/09/20	11/09/20	11/04/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-48-20	SB-49-20	SB-49-20	SB-50-20	SB-50-20
Sample ID		SB-48-20-2-3	SB-49-20-0.0-0.5	SB-49-20-1.5-2.0	SB-50-20-0-1	SB-50-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	1.5-2.0	0.0-1.0	3.5-4.5
Date Sampled		11/03/20	11/09/20	11/09/20	11/04/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Aroclor 1221	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Aroclor 1232	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Aroclor 1242	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Aroclor 1248	MG/KG	19	7.3	39	0.27 U	0.23 U
Aroclor 1254	MG/KG	1.0 U	0.24 U	2.0 U	0.22 J	0.23 U
Aroclor 1260	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Aroclor 1262	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Aroclor 1268	MG/KG	1.0 U	0.24 U	2.0 U	0.27 U	0.23 U
Total PCBs	MG/KG	19	7.3	39	0.22	0.23 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-48-20	SB-49-20	SB-49-20	SB-50-20	SB-50-20
Sample ID		SB-48-20-2-3	SB-49-20-0.0-0.5	SB-49-20-1.5-2.0	SB-50-20-0-1	SB-50-20-3.5-4.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	1.5-2.0	0.0-1.0	3.5-4.5
Date Sampled		11/03/20	11/09/20	11/09/20	11/04/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-51-20	SB-51-20	SB-51-20	SB-52-20	SB-52-20
Sample ID		SB-51-20-0-1	SB-51-20-3-4	SB-51-20-4-5	SB-52-20-0-0.5	SB-52-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/06/20	11/06/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-51-20	SB-51-20	SB-51-20	SB-52-20	SB-52-20
Sample ID		SB-51-20-0-1	SB-51-20-3-4	SB-51-20-4-5	SB-52-20-0-0.5	SB-52-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/06/20	11/06/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-51-20	SB-51-20	SB-51-20	SB-52-20	SB-52-20
Sample ID		SB-51-20-0-1	SB-51-20-3-4	SB-51-20-4-5	SB-52-20-0-0.5	SB-52-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/06/20	11/06/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-51-20	SB-51-20	SB-51-20	SB-52-20	SB-52-20
Sample ID		SB-51-20-0-1	SB-51-20-3-4	SB-51-20-4-5	SB-52-20-0-0.5	SB-52-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-51-20	SB-51-20	SB-51-20	SB-52-20	SB-52-20
Sample ID		SB-51-20-0-1	SB-51-20-3-4	SB-51-20-4-5	SB-52-20-0-0.5	SB-52-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/06/20	11/06/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Aroclor 1221	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Aroclor 1232	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Aroclor 1242	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Aroclor 1248	MG/KG	4.0 U	2.8 U	0.26 U	5.6	2.2
Aroclor 1254	MG/KG	65	43	2.5	0.25 U	0.23 U
Aroclor 1260	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Aroclor 1262	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Aroclor 1268	MG/KG	4.0 U	2.8 U	0.26 U	0.25 U	0.23 U
Total PCBs	MG/KG	65	43	2.5	5.6	2.2

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-51-20	SB-51-20	SB-51-20	SB-52-20	SB-52-20
Sample ID		SB-51-20-0-1	SB-51-20-3-4	SB-51-20-4-5	SB-52-20-0-0.5	SB-52-20-1-1.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/06/20	11/06/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-52-20	SB-53-20	SB-53-20	SB-53-20	SB-54-20
Sample ID		SB-52-20-3-4	SB-53-20-0.5-1	SB-53-20-3-4	SB-53-20-5-6	SB-54-20-0.5-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.5-1.0	3.0-4.0	5.0-6.0	0.5-1.0
Date Sampled		11/06/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-52-20	SB-53-20	SB-53-20	SB-53-20	SB-54-20
Sample ID		SB-52-20-3-4	SB-53-20-0.5-1	SB-53-20-3-4	SB-53-20-5-6	SB-54-20-0.5-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.5-1.0	3.0-4.0	5.0-6.0	0.5-1.0
Date Sampled		11/06/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	0.18 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-52-20	SB-53-20	SB-53-20	SB-53-20	SB-54-20
Sample ID		SB-52-20-3-4	SB-53-20-0.5-1	SB-53-20-3-4	SB-53-20-5-6	SB-54-20-0.5-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.5-1.0	3.0-4.0	5.0-6.0	0.5-1.0
Date Sampled		11/06/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	0.18 U
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	1.7 U
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	0.18 U
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	0.18 U
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	0.18 U
2-Chlorophenol	MG/KG	NA	NA	NA	NA	0.34 U
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	0.18 U
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	0.18 U
2-Nitroaniline	MG/KG	NA	NA	NA	NA	0.34 U
2-Nitrophenol	MG/KG	NA	NA	NA	NA	0.18 U
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	0.34 U
3-Nitroaniline	MG/KG	NA	NA	NA	NA	0.34 U
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	0.34 U
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	0.18 U
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	0.18 U
4-Chloroaniline	MG/KG	NA	NA	NA	NA	0.18 U
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	0.18 U
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	0.34 U
4-Nitroaniline	MG/KG	NA	NA	NA	NA	0.34 U
4-Nitrophenol	MG/KG	NA	NA	NA	NA	0.34 U
Acenaphthene	MG/KG	NA	NA	NA	NA	0.18 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-52-20	SB-53-20	SB-53-20	SB-53-20	SB-54-20
Sample ID		SB-52-20-3-4	SB-53-20-0.5-1	SB-53-20-3-4	SB-53-20-5-6	SB-54-20-0.5-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.5-1.0	3.0-4.0	5.0-6.0	0.5-1.0
Date Sampled		11/06/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	0.18 U
Acetophenone	MG/KG	NA	NA	NA	NA	0.18 U
Anthracene	MG/KG	NA	NA	NA	NA	0.18 U
Atrazine	MG/KG	NA	NA	NA	NA	0.18 U
Benzaldehyde	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	0.043 J
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	0.055 J
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	0.043 J
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	0.18 U
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	0.18 U
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	0.18 U
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	0.18 U
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Caprolactam	MG/KG	NA	NA	NA	NA	0.18 U
Carbazole	MG/KG	NA	NA	NA	NA	0.18 U
Chrysene	MG/KG	NA	NA	NA	NA	0.18 U
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	0.18 U
Dibenzofuran	MG/KG	NA	NA	NA	NA	0.18 U
Diethylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Dimethylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Fluoranthene	MG/KG	NA	NA	NA	NA	0.044 J
Fluorene	MG/KG	NA	NA	NA	NA	0.18 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-52-20	SB-53-20	SB-53-20	SB-53-20	SB-54-20
Sample ID		SB-52-20-3-4	SB-53-20-0.5-1	SB-53-20-3-4	SB-53-20-5-6	SB-54-20-0.5-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.5-1.0	3.0-4.0	5.0-6.0	0.5-1.0
Date Sampled		11/06/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	0.18 U
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	0.18 U
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	0.18 U
Hexachloroethane	MG/KG	NA	NA	NA	NA	0.18 U
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	0.034 J
Isophorone	MG/KG	NA	NA	NA	NA	0.18 U
Naphthalene	MG/KG	NA	NA	NA	NA	0.18 U
Nitrobenzene	MG/KG	NA	NA	NA	NA	0.18 U
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	0.18 U
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	0.18 U
Pentachlorophenol	MG/KG	NA	NA	NA	NA	0.34 U
Phenanthrene	MG/KG	NA	NA	NA	NA	0.18 U
Phenol	MG/KG	NA	NA	NA	NA	0.18 U
Pyrene	MG/KG	NA	NA	NA	NA	0.041 J
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Aroclor 1221	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Aroclor 1232	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Aroclor 1242	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Aroclor 1248	MG/KG	1.6	35 NJ	33	20	0.71
Aroclor 1254	MG/KG	0.29 U	14 NJ	2.1 U	2.0 U	0.24 U
Aroclor 1260	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Aroclor 1262	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Aroclor 1268	MG/KG	0.29 U	2.0 U	2.1 U	2.0 U	0.24 U
Total PCBs	MG/KG	1.6	49	33	20	0.71

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-52-20	SB-53-20	SB-53-20	SB-53-20	SB-54-20
Sample ID		SB-52-20-3-4	SB-53-20-0.5-1	SB-53-20-3-4	SB-53-20-5-6	SB-54-20-0.5-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.0-4.0	0.5-1.0	3.0-4.0	5.0-6.0	0.5-1.0
Date Sampled		11/06/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	4,450
Antimony	MG/KG	NA	NA	NA	NA	14.8 U
Arsenic	MG/KG	NA	NA	NA	NA	2.3
Barium	MG/KG	NA	NA	NA	NA	16.9
Beryllium	MG/KG	NA	NA	NA	NA	0.19 J
Cadmium	MG/KG	NA	NA	NA	NA	0.20 U
Calcium	MG/KG	NA	NA	NA	NA	120,000
Chromium	MG/KG	NA	NA	NA	NA	9.2
Cobalt	MG/KG	NA	NA	NA	NA	3.3
Copper	MG/KG	NA	NA	NA	NA	18.3
Iron	MG/KG	NA	NA	NA	NA	8,670
Lead	MG/KG	NA	NA	NA	NA	22.0
Magnesium	MG/KG	NA	NA	NA	NA	27,300
Manganese	MG/KG	NA	NA	NA	NA	290
Mercury	MG/KG	NA	NA	NA	NA	0.021
Nickel	MG/KG	NA	NA	NA	NA	12.8
Potassium	MG/KG	NA	NA	NA	NA	1,320
Selenium	MG/KG	NA	NA	NA	NA	4.0 U
Silver	MG/KG	NA	NA	NA	NA	0.27 J
Sodium	MG/KG	NA	NA	NA	NA	135 J
Thallium	MG/KG	NA	NA	NA	NA	5.9 U
Vanadium	MG/KG	NA	NA	NA	NA	9.8
Zinc	MG/KG	NA	NA	NA	NA	32.8

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-54-20	SB-54-20	SB-55-20	SB-55-20	SB-55-20
Sample ID		SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-0.0-0.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.0	3.5-4.5	0.0-0.5	5.0-6.0	7.0-8.0
Date Sampled		11/03/20	11/03/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	0.0062 U
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	0.0062 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	0.0062 U
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	0.0062 U
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	0.0062 U
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	0.0062 U
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	0.0062 U
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	0.0062 U
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0062 U
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	0.0062 U
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	0.0062 U
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0062 U
2-Hexanone	MG/KG	NA	NA	NA	NA	0.031 U
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	0.031 U
Acetone	MG/KG	NA	NA	NA	NA	0.15
Benzene	MG/KG	NA	NA	NA	NA	0.0062 U
Bromodichloromethane	MG/KG	NA	NA	NA	NA	0.0062 U
Bromoform	MG/KG	NA	NA	NA	NA	0.0062 U
Bromomethane	MG/KG	NA	NA	NA	NA	0.0062 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-54-20	SB-54-20	SB-55-20	SB-55-20	SB-55-20
Sample ID		SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-0.0-0.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.0	3.5-4.5	0.0-0.5	5.0-6.0	7.0-8.0
Date Sampled		11/03/20	11/03/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	0.0062 U
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	0.0062 U
Chlorobenzene	MG/KG	NA	NA	NA	NA	0.0062 U
Chloroethane	MG/KG	NA	NA	NA	NA	0.0062 U
Chloroform	MG/KG	NA	NA	NA	NA	0.0062 U
Chloromethane	MG/KG	NA	NA	NA	NA	0.0062 U
Cyclohexane	MG/KG	NA	NA	NA	NA	0.0062 U
Dibromochloromethane	MG/KG	NA	NA	NA	NA	0.0062 U
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	0.0062 U
Ethylbenzene	MG/KG	NA	NA	NA	NA	0.0062 U
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	0.0062 U
Methyl acetate	MG/KG	NA	NA	NA	NA	0.031 U
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	0.019 J
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	0.0062 U
Methylcyclohexane	MG/KG	NA	NA	NA	NA	0.0062 U
Methylene chloride	MG/KG	NA	NA	NA	NA	0.0062 U
Styrene	MG/KG	NA	NA	NA	NA	0.0062 U
Tetrachloroethene	MG/KG	NA	NA	NA	NA	0.0062 U
Toluene	MG/KG	NA	NA	NA	NA	0.00080 J
Trichloroethene	MG/KG	NA	NA	NA	NA	0.0036 J
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	0.0062 U
Vinyl chloride	MG/KG	NA	NA	NA	NA	0.0062 U
Xylene (total)	MG/KG	NA	NA	NA	NA	0.0010 J
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-54-20	SB-54-20	SB-55-20	SB-55-20	SB-55-20
Sample ID		SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-0.0-0.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.0	3.5-4.5	0.0-0.5	5.0-6.0	7.0-8.0
Date Sampled		11/03/20	11/03/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-54-20	SB-54-20	SB-55-20	SB-55-20	SB-55-20
Sample ID		SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-0.0-0.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.0	3.5-4.5	0.0-0.5	5.0-6.0	7.0-8.0
Date Sampled		11/03/20	11/03/20	11/09/20	11/09/20	11/09/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-54-20	SB-54-20	SB-55-20	SB-55-20	SB-55-20
Sample ID		SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-0.0-0.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.0	3.5-4.5	0.0-0.5	5.0-6.0	7.0-8.0
Date Sampled		11/03/20	11/03/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1221	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1232	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1242	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1248	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	1.0
Aroclor 1254	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1260	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1262	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Aroclor 1268	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	0.28 U
Total PCBs	MG/KG	0.25 U	0.26 U	0.27 U	0.25 U	1

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-54-20	SB-54-20	SB-55-20	SB-55-20	SB-55-20
Sample ID		SB-54-20-1.5-2	SB-54-20-3.5-4.5	SB-55-20-0.0-0.5	SB-55-20-5.0-6.0	SB-55-20-7.0-8.0
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.0	3.5-4.5	0.0-0.5	5.0-6.0	7.0-8.0
Date Sampled		11/03/20	11/03/20	11/09/20	11/09/20	11/09/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID		SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	SB-58-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	0.0-1.0
Date Sampled		11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID		SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	SB-58-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	0.0-1.0
Date Sampled		11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	0.18 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID		SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	SB-58-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	0.0-1.0
Date Sampled		11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	0.18 UJ	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	0.18 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	0.18 U	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	0.18 U	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	0.18 U	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	1.8 U	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	0.18 U	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	0.18 U	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	0.18 U	NA	NA	NA	NA
2-Chlorophenol	MG/KG	0.36 U	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	0.18 U	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	0.18 U	NA	NA	NA	NA
2-Nitroaniline	MG/KG	0.36 U	NA	NA	NA	NA
2-Nitrophenol	MG/KG	0.18 U	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	0.36 U	NA	NA	NA	NA
3-Nitroaniline	MG/KG	0.36 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	0.36 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	0.18 U	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	0.18 U	NA	NA	NA	NA
4-Chloroaniline	MG/KG	0.18 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	0.18 U	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	0.36 U	NA	NA	NA	NA
4-Nitroaniline	MG/KG	0.36 U	NA	NA	NA	NA
4-Nitrophenol	MG/KG	0.36 U	NA	NA	NA	NA
Acenaphthene	MG/KG	0.18 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID		SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	SB-58-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	0.0-1.0
Date Sampled		11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	0.18 U	NA	NA	NA	NA
Acetophenone	MG/KG	0.18 U	NA	NA	NA	NA
Anthracene	MG/KG	0.18 U	NA	NA	NA	NA
Atrazine	MG/KG	0.18 U	NA	NA	NA	NA
Benzaldehyde	MG/KG	0.18 U	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	0.18 U	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	0.18 U	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	0.18 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	0.18 U	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	0.18 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	0.18 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	0.18 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	0.18 U	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	0.18 U	NA	NA	NA	NA
Caprolactam	MG/KG	0.18 U	NA	NA	NA	NA
Carbazole	MG/KG	0.18 U	NA	NA	NA	NA
Chrysene	MG/KG	0.18 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	0.18 U	NA	NA	NA	NA
Dibenzofuran	MG/KG	0.18 U	NA	NA	NA	NA
Diethylphthalate	MG/KG	0.18 U	NA	NA	NA	NA
Dimethylphthalate	MG/KG	0.18 U	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	0.18 U	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	0.18 U	NA	NA	NA	NA
Fluoranthene	MG/KG	0.18 U	NA	NA	NA	NA
Fluorene	MG/KG	0.18 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID		SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	SB-58-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	0.0-1.0
Date Sampled		11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	0.18 U	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	0.18 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	0.18 U	NA	NA	NA	NA
Hexachloroethane	MG/KG	0.18 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	0.18 U	NA	NA	NA	NA
Isophorone	MG/KG	0.18 U	NA	NA	NA	NA
Naphthalene	MG/KG	0.18 U	NA	NA	NA	NA
Nitrobenzene	MG/KG	0.18 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	0.18 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	0.18 U	NA	NA	NA	NA
Pentachlorophenol	MG/KG	0.36 U	NA	NA	NA	NA
Phenanthrene	MG/KG	0.18 U	NA	NA	NA	NA
Phenol	MG/KG	0.18 U	NA	NA	NA	NA
Pyrene	MG/KG	0.18 U	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1221	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1232	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1242	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1248	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	1.4 J
Aroclor 1254	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1260	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1262	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Aroclor 1268	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	0.27 U
Total PCBs	MG/KG	0.26 U	0.23 U	2.8 U	0.29 U	1.4

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-56-20	SB-56-20	SB-57-20	SB-57-20	SB-58-20
Sample ID		SB-56-20-1-5	SB-56-20-5-6	SB-57-20-0-4	SB-57-20-4-5	SB-58-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.0-5.0	5.0-6.0	0.0-4.0	4.0-5.0	0.0-1.0
Date Sampled		11/05/20	11/05/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	3,560	NA	NA	NA	NA
Antimony	MG/KG	17.2 U	NA	NA	NA	NA
Arsenic	MG/KG	2.3	NA	NA	NA	NA
Barium	MG/KG	15.0	NA	NA	NA	NA
Beryllium	MG/KG	0.17 J	NA	NA	NA	NA
Cadmium	MG/KG	0.11 J	NA	NA	NA	NA
Calcium	MG/KG	94,600	NA	NA	NA	NA
Chromium	MG/KG	4.9	NA	NA	NA	NA
Cobalt	MG/KG	1.8	NA	NA	NA	NA
Copper	MG/KG	7.9	NA	NA	NA	NA
Iron	MG/KG	5,470	NA	NA	NA	NA
Lead	MG/KG	6.2	NA	NA	NA	NA
Magnesium	MG/KG	45,500	NA	NA	NA	NA
Manganese	MG/KG	257	NA	NA	NA	NA
Mercury	MG/KG	0.021 U	NA	NA	NA	NA
Nickel	MG/KG	4.6 J	NA	NA	NA	NA
Potassium	MG/KG	1,360	NA	NA	NA	NA
Selenium	MG/KG	4.6 U	NA	NA	NA	NA
Silver	MG/KG	0.69 U	NA	NA	NA	NA
Sodium	MG/KG	197	NA	NA	NA	NA
Thallium	MG/KG	6.9 U	NA	NA	NA	NA
Vanadium	MG/KG	7.5	NA	NA	NA	NA
Zinc	MG/KG	29.6	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-58-20	SB-58-20	SB-58-20	SB-59-20	SB-59-20
Sample ID		FD-110220-2	SB-58-20-2-3	SB-58-20-4-5	SB-59-20-0-1	SB-59-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	2.0-3.0	4.0-5.0	0.0-1.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-58-20	SB-58-20	SB-58-20	SB-59-20	SB-59-20
Sample ID		FD-110220-2	SB-58-20-2-3	SB-58-20-4-5	SB-59-20-0-1	SB-59-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	2.0-3.0	4.0-5.0	0.0-1.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	Field Duplicate (1-1)				
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-58-20	SB-58-20	SB-58-20	SB-59-20	SB-59-20
Sample ID		FD-110220-2	SB-58-20-2-3	SB-58-20-4-5	SB-59-20-0-1	SB-59-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	2.0-3.0	4.0-5.0	0.0-1.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-58-20	SB-58-20	SB-58-20	SB-59-20	SB-59-20
Sample ID		FD-110220-2	SB-58-20-2-3	SB-58-20-4-5	SB-59-20-0-1	SB-59-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	2.0-3.0	4.0-5.0	0.0-1.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-58-20	SB-58-20	SB-58-20	SB-59-20	SB-59-20
Sample ID		FD-110220-2	SB-58-20-2-3	SB-58-20-4-5	SB-59-20-0-1	SB-59-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	2.0-3.0	4.0-5.0	0.0-1.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1221	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1232	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1242	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1248	MG/KG	4.5 J	5.7 J	0.38	3.2	12
Aroclor 1254	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1260	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1262	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Aroclor 1268	MG/KG	2.4 U	2.3 U	0.25 U	0.27 U	1.2 U
Total PCBs	MG/KG	4.5	5.7	0.38	3.2	12

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-58-20	SB-58-20	SB-58-20	SB-59-20	SB-59-20
Sample ID		FD-110220-2	SB-58-20-2-3	SB-58-20-4-5	SB-59-20-0-1	SB-59-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	2.0-3.0	4.0-5.0	0.0-1.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units	Field Duplicate (1-1)				
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-59-20	SB-60-20	SB-60-20	SB-60-20	SB-61-20
Sample ID		SB-59-20-4-5	SB-60-20-0-1	SB-60-20-3-4	SB-60-20-5-6	SB-61-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.0-4.0	5.0-6.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-59-20	SB-60-20	SB-60-20	SB-60-20	SB-61-20
Sample ID		SB-59-20-4-5	SB-60-20-0-1	SB-60-20-3-4	SB-60-20-5-6	SB-61-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.0-4.0	5.0-6.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-59-20	SB-60-20	SB-60-20	SB-60-20	SB-61-20
Sample ID		SB-59-20-4-5	SB-60-20-0-1	SB-60-20-3-4	SB-60-20-5-6	SB-61-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.0-4.0	5.0-6.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-59-20	SB-60-20	SB-60-20	SB-60-20	SB-61-20
Sample ID		SB-59-20-4-5	SB-60-20-0-1	SB-60-20-3-4	SB-60-20-5-6	SB-61-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.0-4.0	5.0-6.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-59-20	SB-60-20	SB-60-20	SB-60-20	SB-61-20
Sample ID		SB-59-20-4-5	SB-60-20-0-1	SB-60-20-3-4	SB-60-20-5-6	SB-61-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.0-4.0	5.0-6.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1221	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1232	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1242	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1248	MG/KG	420	17	4.2 J	31	3.0 J
Aroclor 1254	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1260	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1262	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Aroclor 1268	MG/KG	25 U	1.1 U	0.31 U	2.1 U	0.27 U
Total PCBs	MG/KG	420	17	4.2	31	3

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-59-20	SB-60-20	SB-60-20	SB-60-20	SB-61-20
Sample ID		SB-59-20-4-5	SB-60-20-0-1	SB-60-20-3-4	SB-60-20-5-6	SB-61-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.0-4.0	5.0-6.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-61-20	SB-61-20	SB-61-20	SB-62-20	SB-62-20
Sample ID		SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-0-1	SB-62-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	5.0-6.0	6.0-7.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-61-20	SB-61-20	SB-61-20	SB-62-20	SB-62-20
Sample ID		SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-0-1	SB-62-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	5.0-6.0	6.0-7.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-61-20	SB-61-20	SB-61-20	SB-62-20	SB-62-20
Sample ID		SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-0-1	SB-62-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	5.0-6.0	6.0-7.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-61-20	SB-61-20	SB-61-20	SB-62-20	SB-62-20
Sample ID		SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-0-1	SB-62-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	5.0-6.0	6.0-7.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-61-20	SB-61-20	SB-61-20	SB-62-20	SB-62-20
Sample ID		SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-0-1	SB-62-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	5.0-6.0	6.0-7.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1221	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1232	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1242	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1248	MG/KG	1.4	0.15 J	0.11 J	1.7 J	7.7
Aroclor 1254	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1260	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1262	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Aroclor 1268	MG/KG	0.26 U	0.27 U	0.24 U	0.26 U	0.23 U
Total PCBs	MG/KG	1.4	0.15	0.11	1.7	7.7

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-61-20	SB-61-20	SB-61-20	SB-62-20	SB-62-20
Sample ID		SB-61-20-2-3	SB-61-20-5-6	SB-61-20-6-7	SB-62-20-0-1	SB-62-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	5.0-6.0	6.0-7.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-62-20	SB-63-20	SB-63-20	SB-63-20	SB-64-20
Sample ID		SB-62-20-4-5	SB-63-20-0-1	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	1.0-2.0	4.0-5.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-62-20	SB-63-20	SB-63-20	SB-63-20	SB-64-20
Sample ID		SB-62-20-4-5	SB-63-20-0-1	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	1.0-2.0	4.0-5.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-62-20	SB-63-20	SB-63-20	SB-63-20	SB-64-20
Sample ID		SB-62-20-4-5	SB-63-20-0-1	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	1.0-2.0	4.0-5.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-62-20	SB-63-20	SB-63-20	SB-63-20	SB-64-20
Sample ID		SB-62-20-4-5	SB-63-20-0-1	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	1.0-2.0	4.0-5.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-62-20	SB-63-20	SB-63-20	SB-63-20	SB-64-20
Sample ID		SB-62-20-4-5	SB-63-20-0-1	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	1.0-2.0	4.0-5.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Aroclor 1221	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Aroclor 1232	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Aroclor 1242	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Aroclor 1248	MG/KG	0.85	0.057 J	0.32 J	0.33	0.26 U
Aroclor 1254	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	1.8
Aroclor 1260	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Aroclor 1262	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Aroclor 1268	MG/KG	0.23 U	0.22 U	0.25 U	0.25 U	0.26 U
Total PCBs	MG/KG	0.85	0.057	0.32	0.33	1.8

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-62-20	SB-63-20	SB-63-20	SB-63-20	SB-64-20
Sample ID		SB-62-20-4-5	SB-63-20-0-1	SB-63-20-1-2	SB-63-20-4-5	SB-64-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	1.0-2.0	4.0-5.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-64-20	SB-64-20	SB-65-20	SB-65-20	SB-65-20
Sample ID		SB-64-20-2-3	SB-64-20-4-5	SB-65-20-0-1	SB-65-20-2-3	SB-65-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-1.0	2.0-3.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-64-20	SB-64-20	SB-65-20	SB-65-20	SB-65-20
Sample ID		SB-64-20-2-3	SB-64-20-4-5	SB-65-20-0-1	SB-65-20-2-3	SB-65-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-1.0	2.0-3.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-64-20	SB-64-20	SB-65-20	SB-65-20	SB-65-20
Sample ID		SB-64-20-2-3	SB-64-20-4-5	SB-65-20-0-1	SB-65-20-2-3	SB-65-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-1.0	2.0-3.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-64-20	SB-64-20	SB-65-20	SB-65-20	SB-65-20
Sample ID		SB-64-20-2-3	SB-64-20-4-5	SB-65-20-0-1	SB-65-20-2-3	SB-65-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-1.0	2.0-3.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-64-20	SB-64-20	SB-65-20	SB-65-20	SB-65-20
Sample ID		SB-64-20-2-3	SB-64-20-4-5	SB-65-20-0-1	SB-65-20-2-3	SB-65-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-1.0	2.0-3.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1221	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1232	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1242	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1248	MG/KG	0.31	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1254	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1260	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1262	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Aroclor 1268	MG/KG	0.27 U	0.24 U	0.24 U	0.25 U	0.21 U
Total PCBs	MG/KG	0.31	0.24 U	0.24 U	0.25 U	0.21 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-64-20	SB-64-20	SB-65-20	SB-65-20	SB-65-20
Sample ID		SB-64-20-2-3	SB-64-20-4-5	SB-65-20-0-1	SB-65-20-2-3	SB-65-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	4.0-5.0	0.0-1.0	2.0-3.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-66-20	SB-66-20	SB-67-20	SB-67-20	SB-67-20
Sample ID		SB-66-20-0-1	SB-66-20-1-2	SB-67-20-0-1	SB-67-20-3-4	SB-67-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	0.0-1.0	3.0-4.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-66-20	SB-66-20	SB-67-20	SB-67-20	SB-67-20
Sample ID		SB-66-20-0-1	SB-66-20-1-2	SB-67-20-0-1	SB-67-20-3-4	SB-67-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	0.0-1.0	3.0-4.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-66-20	SB-66-20	SB-67-20	SB-67-20	SB-67-20
Sample ID		SB-66-20-0-1	SB-66-20-1-2	SB-67-20-0-1	SB-67-20-3-4	SB-67-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	0.0-1.0	3.0-4.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-66-20	SB-66-20	SB-67-20	SB-67-20	SB-67-20
Sample ID		SB-66-20-0-1	SB-66-20-1-2	SB-67-20-0-1	SB-67-20-3-4	SB-67-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	0.0-1.0	3.0-4.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-66-20	SB-66-20	SB-67-20	SB-67-20	SB-67-20
Sample ID		SB-66-20-0-1	SB-66-20-1-2	SB-67-20-0-1	SB-67-20-3-4	SB-67-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	0.0-1.0	3.0-4.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1221	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1232	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1242	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1248	MG/KG	0.52	0.26 U	0.46	0.27 U	1.1 J
Aroclor 1254	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1260	MG/KG	0.19 J	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1262	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Aroclor 1268	MG/KG	0.26 U	0.26 U	0.22 U	0.27 U	0.26 U
Total PCBs	MG/KG	0.71	0.26 U	0.46	0.27 U	1.1

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-66-20	SB-66-20	SB-67-20	SB-67-20	SB-67-20
Sample ID		SB-66-20-0-1	SB-66-20-1-2	SB-67-20-0-1	SB-67-20-3-4	SB-67-20-4-5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	0.0-1.0	3.0-4.0	4.0-5.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-68-20	SB-68-20	SB-68-20	SB-69-20	SB-69-20
Sample ID		SB-68-20-0-1	SB-68-20-2-3	SB-68-20-3-4	SB-69-20-0-1	SB-69-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-68-20	SB-68-20	SB-68-20	SB-69-20	SB-69-20
Sample ID		SB-68-20-0-1	SB-68-20-2-3	SB-68-20-3-4	SB-69-20-0-1	SB-69-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-68-20	SB-68-20	SB-68-20	SB-69-20	SB-69-20
Sample ID		SB-68-20-0-1	SB-68-20-2-3	SB-68-20-3-4	SB-69-20-0-1	SB-69-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-68-20	SB-68-20	SB-68-20	SB-69-20	SB-69-20
Sample ID		SB-68-20-0-1	SB-68-20-2-3	SB-68-20-3-4	SB-69-20-0-1	SB-69-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-68-20	SB-68-20	SB-68-20	SB-69-20	SB-69-20
Sample ID		SB-68-20-0-1	SB-68-20-2-3	SB-68-20-3-4	SB-69-20-0-1	SB-69-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1221	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1232	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1242	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1248	MG/KG	320	3.7	0.23 U	3.1	38
Aroclor 1254	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1260	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1262	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Aroclor 1268	MG/KG	25 U	0.25 U	0.23 U	0.25 U	2.6 U
Total PCBs	MG/KG	320	3.7	0.23 U	3.1	38

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-68-20	SB-68-20	SB-68-20	SB-69-20	SB-69-20
Sample ID		SB-68-20-0-1	SB-68-20-2-3	SB-68-20-3-4	SB-69-20-0-1	SB-69-20-1-2
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-69-20	SB-69-20	SB-70-20	SB-70-20	SB-70-20
Sample ID		SB-69-20-2-3	SB-69-20-3-4	SB-70-20-0-1	SB-70-20-3-4	SB-70-20-5-6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	3.0-4.0	0.0-1.0	3.0-4.0	5.0-6.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-69-20	SB-69-20	SB-70-20	SB-70-20	SB-70-20
Sample ID		SB-69-20-2-3	SB-69-20-3-4	SB-70-20-0-1	SB-70-20-3-4	SB-70-20-5-6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	3.0-4.0	0.0-1.0	3.0-4.0	5.0-6.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-69-20	SB-69-20	SB-70-20	SB-70-20	SB-70-20
Sample ID		SB-69-20-2-3	SB-69-20-3-4	SB-70-20-0-1	SB-70-20-3-4	SB-70-20-5-6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	3.0-4.0	0.0-1.0	3.0-4.0	5.0-6.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-69-20	SB-69-20	SB-70-20	SB-70-20	SB-70-20
Sample ID		SB-69-20-2-3	SB-69-20-3-4	SB-70-20-0-1	SB-70-20-3-4	SB-70-20-5-6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	3.0-4.0	0.0-1.0	3.0-4.0	5.0-6.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-69-20	SB-69-20	SB-70-20	SB-70-20	SB-70-20
Sample ID		SB-69-20-2-3	SB-69-20-3-4	SB-70-20-0-1	SB-70-20-3-4	SB-70-20-5-6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	3.0-4.0	0.0-1.0	3.0-4.0	5.0-6.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1221	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1232	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1242	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1248	MG/KG	25	8.1	2.2	12	28
Aroclor 1254	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1260	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1262	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Aroclor 1268	MG/KG	2.4 U	0.23 U	0.31 U	1.1 U	2.7 U
Total PCBs	MG/KG	25	8.1	2.2	12	28

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-69-20	SB-69-20	SB-70-20	SB-70-20	SB-70-20
Sample ID		SB-69-20-2-3	SB-69-20-3-4	SB-70-20-0-1	SB-70-20-3-4	SB-70-20-5-6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	3.0-4.0	0.0-1.0	3.0-4.0	5.0-6.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-71-20	SB-71-20	SB-71-20	SB-72-20	SB-72-20
Sample ID		SB-71-20-0-1	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-0-1	SB-72-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-71-20	SB-71-20	SB-71-20	SB-72-20	SB-72-20
Sample ID		SB-71-20-0-1	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-0-1	SB-72-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-71-20	SB-71-20	SB-71-20	SB-72-20	SB-72-20
Sample ID		SB-71-20-0-1	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-0-1	SB-72-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-71-20	SB-71-20	SB-71-20	SB-72-20	SB-72-20
Sample ID		SB-71-20-0-1	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-0-1	SB-72-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-71-20	SB-71-20	SB-71-20	SB-72-20	SB-72-20
Sample ID		SB-71-20-0-1	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-0-1	SB-72-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1221	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1232	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1242	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1248	MG/KG	0.46	1.5 J	4.8	0.68	22
Aroclor 1254	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1260	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1262	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Aroclor 1268	MG/KG	0.28 U	0.28 U	0.31 U	0.26 U	2.5 U
Total PCBs	MG/KG	0.46	1.5	4.8	0.68	22

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-71-20	SB-71-20	SB-71-20	SB-72-20	SB-72-20
Sample ID		SB-71-20-0-1	SB-71-20-1-2	SB-71-20-2-3	SB-72-20-0-1	SB-72-20-2-3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	2.0-3.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-73-20
Sample ID		FD-110220-1	SB-72-20-4-5	SB-73-20-0-1	SB-73-20-2-3	SB-73-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	4.0-5.0	0.0-1.0	2.0-3.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-73-20
Sample ID		FD-110220-1	SB-72-20-4-5	SB-73-20-0-1	SB-73-20-2-3	SB-73-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	4.0-5.0	0.0-1.0	2.0-3.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	Field Duplicate (1-1)				
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-73-20
Sample ID		FD-110220-1	SB-72-20-4-5	SB-73-20-0-1	SB-73-20-2-3	SB-73-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	4.0-5.0	0.0-1.0	2.0-3.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-73-20
Sample ID		FD-110220-1	SB-72-20-4-5	SB-73-20-0-1	SB-73-20-2-3	SB-73-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	4.0-5.0	0.0-1.0	2.0-3.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-73-20
Sample ID		FD-110220-1	SB-72-20-4-5	SB-73-20-0-1	SB-73-20-2-3	SB-73-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	4.0-5.0	0.0-1.0	2.0-3.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1221	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1232	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1242	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1248	MG/KG	0.24 U	0.052 J	0.25 U	3.6 J	18 J
Aroclor 1254	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1260	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1262	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Aroclor 1268	MG/KG	0.24 U	0.26 U	0.25 U	0.32 U	1.5 U
Total PCBs	MG/KG	0.24 U	0.052	0.25 U	3.6	18

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-72-20	SB-72-20	SB-73-20	SB-73-20	SB-73-20
Sample ID		FD-110220-1	SB-72-20-4-5	SB-73-20-0-1	SB-73-20-2-3	SB-73-20-3-4
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	4.0-5.0	0.0-1.0	2.0-3.0	3.0-4.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**	Field Duplicate (1-1)				
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-74-20	SB-74-20	SB-75-20	SB-75-20	SB-76-20
Sample ID		SB-74-20-0-1	SB-74-20-2-3	SB-75-20-0-1	SB-75-20-3-4	SB-76-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	0.0-1.0	3.0-4.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-74-20	SB-74-20	SB-75-20	SB-75-20	SB-76-20
Sample ID		SB-74-20-0-1	SB-74-20-2-3	SB-75-20-0-1	SB-75-20-3-4	SB-76-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	0.0-1.0	3.0-4.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-74-20	SB-74-20	SB-75-20	SB-75-20	SB-76-20
Sample ID		SB-74-20-0-1	SB-74-20-2-3	SB-75-20-0-1	SB-75-20-3-4	SB-76-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	0.0-1.0	3.0-4.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-74-20	SB-74-20	SB-75-20	SB-75-20	SB-76-20
Sample ID		SB-74-20-0-1	SB-74-20-2-3	SB-75-20-0-1	SB-75-20-3-4	SB-76-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	0.0-1.0	3.0-4.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-74-20	SB-74-20	SB-75-20	SB-75-20	SB-76-20
Sample ID		SB-74-20-0-1	SB-74-20-2-3	SB-75-20-0-1	SB-75-20-3-4	SB-76-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	0.0-1.0	3.0-4.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Aroclor 1221	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Aroclor 1232	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Aroclor 1242	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Aroclor 1248	MG/KG	0.29 U	11	1.3 U	0.060 J	0.25 U
Aroclor 1254	MG/KG	0.29 U	1.4 U	15	0.26 U	0.25 U
Aroclor 1260	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Aroclor 1262	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Aroclor 1268	MG/KG	0.29 U	1.4 U	1.3 U	0.26 U	0.25 U
Total PCBs	MG/KG	0.29 U	11	15	0.06	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-74-20	SB-74-20	SB-75-20	SB-75-20	SB-76-20
Sample ID		SB-74-20-0-1	SB-74-20-2-3	SB-75-20-0-1	SB-75-20-3-4	SB-76-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	2.0-3.0	0.0-1.0	3.0-4.0	0.0-1.0
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/02/20
Parameter	Units					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-76-20	SB-77-20	SB-77-20	SB-77-20	SB-78-20
Sample ID		SB-76-20-2-3	SB-77-20-0-1	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	0.0053 U
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	0.0053 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	0.0053 U
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	0.0053 U
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	0.0053 U
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	0.0053 U
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	0.0053 U
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	0.0053 U
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0053 U
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	0.0053 U
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	0.0053 U
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	0.0053 U
2-Hexanone	MG/KG	NA	NA	NA	NA	0.026 U
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	0.026 U
Acetone	MG/KG	NA	NA	NA	NA	0.073
Benzene	MG/KG	NA	NA	NA	NA	0.0053 U
Bromodichloromethane	MG/KG	NA	NA	NA	NA	0.0053 U
Bromoform	MG/KG	NA	NA	NA	NA	0.0053 U
Bromomethane	MG/KG	NA	NA	NA	NA	0.0053 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-76-20	SB-77-20	SB-77-20	SB-77-20	SB-78-20
Sample ID		SB-76-20-2-3	SB-77-20-0-1	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	0.0053 U
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	0.0053 U
Chlorobenzene	MG/KG	NA	NA	NA	NA	0.0053 U
Chloroethane	MG/KG	NA	NA	NA	NA	0.0053 U
Chloroform	MG/KG	NA	NA	NA	NA	0.0053 U
Chloromethane	MG/KG	NA	NA	NA	NA	0.0053 U
Cyclohexane	MG/KG	NA	NA	NA	NA	0.0053 U
Dibromochloromethane	MG/KG	NA	NA	NA	NA	0.0053 U
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	0.0053 UJ
Ethylbenzene	MG/KG	NA	NA	NA	NA	0.0053 U
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	0.0053 U
Methyl acetate	MG/KG	NA	NA	NA	NA	0.026 U
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	0.011 J
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	0.0053 U
Methylcyclohexane	MG/KG	NA	NA	NA	NA	0.0053 U
Methylene chloride	MG/KG	NA	NA	NA	NA	0.0053 U
Styrene	MG/KG	NA	NA	NA	NA	0.0053 U
Tetrachloroethene	MG/KG	NA	NA	NA	NA	0.0053 U
Toluene	MG/KG	NA	NA	NA	NA	0.0053 U
Trichloroethene	MG/KG	NA	NA	NA	NA	0.0053 U
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	0.0053 U
Vinyl chloride	MG/KG	NA	NA	NA	NA	0.0053 U
Xylene (total)	MG/KG	NA	NA	NA	NA	0.011 U
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	0.18 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-76-20	SB-77-20	SB-77-20	SB-77-20	SB-78-20
Sample ID		SB-76-20-2-3	SB-77-20-0-1	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	0.18 UJ
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	0.18 U
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	1.8 U
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	0.18 U
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	0.18 U
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	0.18 U
2-Chlorophenol	MG/KG	NA	NA	NA	NA	0.35 U
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	0.18 U
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	0.18 U
2-Nitroaniline	MG/KG	NA	NA	NA	NA	0.35 UJ
2-Nitrophenol	MG/KG	NA	NA	NA	NA	0.18 U
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	0.35 U
3-Nitroaniline	MG/KG	NA	NA	NA	NA	0.35 U
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	0.35 U
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	0.18 U
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	0.18 U
4-Chloroaniline	MG/KG	NA	NA	NA	NA	0.18 U
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	0.18 U
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	0.35 U
4-Nitroaniline	MG/KG	NA	NA	NA	NA	0.35 U
4-Nitrophenol	MG/KG	NA	NA	NA	NA	0.35 UJ
Acenaphthene	MG/KG	NA	NA	NA	NA	0.18 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-76-20	SB-77-20	SB-77-20	SB-77-20	SB-78-20
Sample ID		SB-76-20-2-3	SB-77-20-0-1	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	0.18 U
Acetophenone	MG/KG	NA	NA	NA	NA	0.18 U
Anthracene	MG/KG	NA	NA	NA	NA	0.18 U
Atrazine	MG/KG	NA	NA	NA	NA	0.18 U
Benzaldehyde	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	0.18 U
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	0.18 U
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	0.18 U
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	0.18 U
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	0.18 U
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Caprolactam	MG/KG	NA	NA	NA	NA	0.18 U
Carbazole	MG/KG	NA	NA	NA	NA	0.18 U
Chrysene	MG/KG	NA	NA	NA	NA	0.18 U
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	0.18 U
Dibenzofuran	MG/KG	NA	NA	NA	NA	0.18 U
Diethylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Dimethylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	0.18 U
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	0.18 UJ
Fluoranthene	MG/KG	NA	NA	NA	NA	0.18 U
Fluorene	MG/KG	NA	NA	NA	NA	0.18 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-76-20	SB-77-20	SB-77-20	SB-77-20	SB-78-20
Sample ID		SB-76-20-2-3	SB-77-20-0-1	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	0.18 U
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	0.18 U
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	0.18 UJ
Hexachloroethane	MG/KG	NA	NA	NA	NA	0.18 U
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	0.18 U
Isophorone	MG/KG	NA	NA	NA	NA	0.18 U
Naphthalene	MG/KG	NA	NA	NA	NA	0.18 U
Nitrobenzene	MG/KG	NA	NA	NA	NA	0.18 U
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	0.18 U
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	0.18 U
Pentachlorophenol	MG/KG	NA	NA	NA	NA	0.35 U
Phenanthrene	MG/KG	NA	NA	NA	NA	0.18 U
Phenol	MG/KG	NA	NA	NA	NA	0.18 U
Pyrene	MG/KG	NA	NA	NA	NA	0.18 U
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Aroclor 1221	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Aroclor 1232	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Aroclor 1242	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Aroclor 1248	MG/KG	4.3	0.23 U	0.28 U	0.30 J	0.20 U
Aroclor 1254	MG/KG	0.25 U	3.3 J	0.28 U	0.20 U	0.20 U
Aroclor 1260	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Aroclor 1262	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Aroclor 1268	MG/KG	0.25 U	0.23 U	0.28 U	0.20 U	0.20 U
Total PCBs	MG/KG	4.3	3.3	0.28 U	0.3	0.20 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-76-20	SB-77-20	SB-77-20	SB-77-20	SB-78-20
Sample ID		SB-76-20-2-3	SB-77-20-0-1	SB-77-20-1-2	SB-77-20-2-3	SB-78-20-1.5-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	1.5-2.5
Date Sampled		11/02/20	11/02/20	11/02/20	11/02/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	20,400
Antimony	MG/KG	NA	NA	NA	NA	17.0 U
Arsenic	MG/KG	NA	NA	NA	NA	2.0 J
Barium	MG/KG	NA	NA	NA	NA	116
Beryllium	MG/KG	NA	NA	NA	NA	0.84
Cadmium	MG/KG	NA	NA	NA	NA	0.23 U
Calcium	MG/KG	NA	NA	NA	NA	13,300
Chromium	MG/KG	NA	NA	NA	NA	24.3
Cobalt	MG/KG	NA	NA	NA	NA	8.8
Copper	MG/KG	NA	NA	NA	NA	13.2
Iron	MG/KG	NA	NA	NA	NA	17,900
Lead	MG/KG	NA	NA	NA	NA	10.9
Magnesium	MG/KG	NA	NA	NA	NA	12,000
Manganese	MG/KG	NA	NA	NA	NA	533
Mercury	MG/KG	NA	NA	NA	NA	0.019
Nickel	MG/KG	NA	NA	NA	NA	24.9
Potassium	MG/KG	NA	NA	NA	NA	4,210
Selenium	MG/KG	NA	NA	NA	NA	4.5 U
Silver	MG/KG	NA	NA	NA	NA	0.68 U
Sodium	MG/KG	NA	NA	NA	NA	145 J
Thallium	MG/KG	NA	NA	NA	NA	6.8 U
Vanadium	MG/KG	NA	NA	NA	NA	31.8
Zinc	MG/KG	NA	NA	NA	NA	51.3

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-78-20	SB-79-20	SB-79-20	SF-01-20	SF-02-20
Sample ID		SB-78-20-4-5	SB-79-20-0-1	SB-79-20-3.5-4.5	SF-01-20-0.6-1.1	SF-02-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.5-4.5	0.6-1.1	1.1-1.6
Date Sampled		11/04/20	11/04/20	11/04/20	11/10/20	11/10/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-78-20	SB-79-20	SB-79-20	SF-01-20	SF-02-20
Sample ID		SB-78-20-4-5	SB-79-20-0-1	SB-79-20-3.5-4.5	SF-01-20-0.6-1.1	SF-02-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.5-4.5	0.6-1.1	1.1-1.6
Date Sampled		11/04/20	11/04/20	11/04/20	11/10/20	11/10/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-78-20	SB-79-20	SB-79-20	SF-01-20	SF-02-20
Sample ID		SB-78-20-4-5	SB-79-20-0-1	SB-79-20-3.5-4.5	SF-01-20-0.6-1.1	SF-02-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.5-4.5	0.6-1.1	1.1-1.6
Date Sampled		11/04/20	11/04/20	11/04/20	11/10/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	0.18 UJ	0.99 UJ	0.18 UJ	NA	NA
2,4,5-Trichlorophenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2,4,6-Trichlorophenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2,4-Dichlorophenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2,4-Dimethylphenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2,4-Dinitrophenol	MG/KG	1.7 U	9.7 U	1.8 U	NA	NA
2,4-Dinitrotoluene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2,6-Dinitrotoluene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2-Chloronaphthalene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2-Chlorophenol	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
2-Methylnaphthalene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2-Methylphenol (o-cresol)	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
2-Nitroaniline	MG/KG	0.35 UJ	1.9 UJ	0.35 UJ	NA	NA
2-Nitrophenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
3,3-Dichlorobenzidine	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
3-Nitroaniline	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
4-Bromophenyl-phenylether	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
4-Chloro-3-methylphenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
4-Chloroaniline	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
4-Chlorophenyl-phenylether	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
4-Methylphenol (p-cresol)	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
4-Nitroaniline	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
4-Nitrophenol	MG/KG	0.35 UJ	1.9 UJ	0.35 UJ	NA	NA
Acenaphthene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-78-20	SB-79-20	SB-79-20	SF-01-20	SF-02-20
Sample ID		SB-78-20-4-5	SB-79-20-0-1	SB-79-20-3.5-4.5	SF-01-20-0.6-1.1	SF-02-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.5-4.5	0.6-1.1	1.1-1.6
Date Sampled		11/04/20	11/04/20	11/04/20	11/10/20	11/10/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	0.18 U	0.20 J	0.18 U	NA	NA
Acetophenone	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Anthracene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Atrazine	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Benzaldehyde	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Benzo(a)anthracene	MG/KG	0.11 J	0.29 J	0.18 U	NA	NA
Benzo(a)pyrene	MG/KG	0.11 J	0.40 J	0.18 U	NA	NA
Benzo(b)fluoranthene	MG/KG	0.11 J	0.71 J	0.18 U	NA	NA
Benzo(g,h,i)perylene	MG/KG	0.077 J	0.42 J	0.18 U	NA	NA
Benzo(k)fluoranthene	MG/KG	0.075 J	0.31 J	0.18 U	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
bis(2-Chloroethyl)ether	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Butylbenzylphthalate	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Caprolactam	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Carbazole	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Chrysene	MG/KG	0.11 J	0.49 J	0.18 U	NA	NA
Dibenz(a,h)anthracene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Dibenzofuran	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Diethylphthalate	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Dimethylphthalate	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Di-n-butylphthalate	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Di-n-octylphthalate	MG/KG	0.18 UJ	0.99 UJ	0.18 UJ	NA	NA
Fluoranthene	MG/KG	0.23	0.65 J	0.18 U	NA	NA
Fluorene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-78-20	SB-79-20	SB-79-20	SF-01-20	SF-02-20
Sample ID		SB-78-20-4-5	SB-79-20-0-1	SB-79-20-3.5-4.5	SF-01-20-0.6-1.1	SF-02-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.5-4.5	0.6-1.1	1.1-1.6
Date Sampled		11/04/20	11/04/20	11/04/20	11/10/20	11/10/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Hexachlorobutadiene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Hexachlorocyclopentadiene	MG/KG	0.18 UJ	0.99 UJ	0.18 UJ	NA	NA
Hexachloroethane	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	0.062 J	0.34 J	0.18 U	NA	NA
Isophorone	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Naphthalene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Nitrobenzene	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
N-Nitrosodiphenylamine	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Pentachlorophenol	MG/KG	0.35 U	1.9 U	0.35 U	NA	NA
Phenanthrene	MG/KG	0.14 J	0.19 J	0.18 U	NA	NA
Phenol	MG/KG	0.18 U	0.99 U	0.18 U	NA	NA
Pyrene	MG/KG	0.19	0.51 J	0.18 U	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Aroclor 1221	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Aroclor 1232	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Aroclor 1242	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Aroclor 1248	MG/KG	0.23 U	0.29 U	0.21 U	1.9	5.1
Aroclor 1254	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Aroclor 1260	MG/KG	0.23 U	0.67	0.21 U	0.27 U	0.24 U
Aroclor 1262	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Aroclor 1268	MG/KG	0.23 U	0.29 U	0.21 U	0.27 U	0.24 U
Total PCBs	MG/KG	0.23 U	0.67	0.21 U	1.9	5.1

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SB-78-20	SB-79-20	SB-79-20	SF-01-20	SF-02-20
Sample ID		SB-78-20-4-5	SB-79-20-0-1	SB-79-20-3.5-4.5	SF-01-20-0.6-1.1	SF-02-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	0.0-1.0	3.5-4.5	0.6-1.1	1.1-1.6
Date Sampled		11/04/20	11/04/20	11/04/20	11/10/20	11/10/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	18,500	31,900	18,100	NA	NA
Antimony	MG/KG	16.5 U	17.7 U	16.9 U	NA	NA
Arsenic	MG/KG	2.7	3.6	4.1	NA	NA
Barium	MG/KG	89.4	274	114	NA	NA
Beryllium	MG/KG	0.80	4.8	0.91	NA	NA
Cadmium	MG/KG	0.22 U	0.078 J	0.23 U	NA	NA
Calcium	MG/KG	47,200	179,000	50,900	NA	NA
Chromium	MG/KG	23.3	37.0	22.5	NA	NA
Cobalt	MG/KG	8.8	3.1	11.5	NA	NA
Copper	MG/KG	13.9	18.4	15.7	NA	NA
Iron	MG/KG	20,300	10,800	21,600	NA	NA
Lead	MG/KG	10.6	20.0	11.1	NA	NA
Magnesium	MG/KG	13,100	24,800	13,200	NA	NA
Manganese	MG/KG	367	7,480	578	NA	NA
Mercury	MG/KG	0.0094 J	0.043	0.012 J	NA	NA
Nickel	MG/KG	25.3	13.1	27.4	NA	NA
Potassium	MG/KG	4,860	2,490	4,860	NA	NA
Selenium	MG/KG	4.4 U	1.8 J	4.5 U	NA	NA
Silver	MG/KG	0.66 U	1.4 U	0.68 U	NA	NA
Sodium	MG/KG	187	936	211	NA	NA
Thallium	MG/KG	6.6 U	14.2 U	6.8 U	NA	NA
Vanadium	MG/KG	33.8	15.3	34.6	NA	NA
Zinc	MG/KG	55.6	24.8	47.0	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-03-20	SF-04-20	SF-05-20	SF-06-20	SF-07-20
Sample ID		SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4	SF-07-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4	0.8-1.3
Date Sampled		11/10/20	11/10/20	11/10/20	11/11/20	11/11/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-03-20	SF-04-20	SF-05-20	SF-06-20	SF-07-20
Sample ID		SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4	SF-07-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4	0.8-1.3
Date Sampled		11/10/20	11/10/20	11/10/20	11/11/20	11/11/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-03-20	SF-04-20	SF-05-20	SF-06-20	SF-07-20
Sample ID		SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4	SF-07-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4	0.8-1.3
Date Sampled		11/10/20	11/10/20	11/10/20	11/11/20	11/11/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-03-20	SF-04-20	SF-05-20	SF-06-20	SF-07-20
Sample ID		SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4	SF-07-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4	0.8-1.3
Date Sampled		11/10/20	11/10/20	11/10/20	11/11/20	11/11/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-03-20	SF-04-20	SF-05-20	SF-06-20	SF-07-20
Sample ID		SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4	SF-07-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4	0.8-1.3
Date Sampled		11/10/20	11/10/20	11/10/20	11/11/20	11/11/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1221	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1232	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1242	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1248	MG/KG	26	6.9	0.35	1.8	0.87
Aroclor 1254	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1260	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1262	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Aroclor 1268	MG/KG	2.9 U	0.22 U	0.24 U	0.21 U	0.15 U
Total PCBs	MG/KG	26	6.9	0.35	1.8	0.87

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-03-20	SF-04-20	SF-05-20	SF-06-20	SF-07-20
Sample ID		SF-03-20-1.2-1.7	SF-04-20-1.2-1.7	SF-05-20-1.1-1.6	SF-06-20-0.9-1.4	SF-07-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.2-1.7	1.2-1.7	1.1-1.6	0.9-1.4	0.8-1.3
Date Sampled		11/10/20	11/10/20	11/10/20	11/11/20	11/11/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-08-20	SF-09-20	SF-10-20	SF-11-20	SF-12-20
Sample ID		SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6	SF-12-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6	0.0-0.5
Date Sampled		11/11/20	11/11/20	11/11/20	11/10/20	11/04/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-08-20	SF-09-20	SF-10-20	SF-11-20	SF-12-20
Sample ID		SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6	SF-12-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6	0.0-0.5
Date Sampled		11/11/20	11/11/20	11/11/20	11/10/20	11/04/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-08-20	SF-09-20	SF-10-20	SF-11-20	SF-12-20
Sample ID		SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6	SF-12-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6	0.0-0.5
Date Sampled		11/11/20	11/11/20	11/11/20	11/10/20	11/04/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-08-20	SF-09-20	SF-10-20	SF-11-20	SF-12-20
Sample ID		SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6	SF-12-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6	0.0-0.5
Date Sampled		11/11/20	11/11/20	11/11/20	11/10/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-08-20	SF-09-20	SF-10-20	SF-11-20	SF-12-20
Sample ID		SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6	SF-12-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6	0.0-0.5
Date Sampled		11/11/20	11/11/20	11/11/20	11/10/20	11/04/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1221	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1232	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1242	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1248	MG/KG	0.32	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1254	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1260	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1262	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Aroclor 1268	MG/KG	0.18 U	0.34 U	0.24 U	0.25 U	0.21 U
Total PCBs	MG/KG	0.32	0.34 U	0.24 U	0.25 U	0.21 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-08-20	SF-09-20	SF-10-20	SF-11-20	SF-12-20
Sample ID		SF-08-20-0.7-1.2	SF-09-20-0.7-1.2	SF-10-20-1.1-1.6	SF-11-20-1.1-1.6	SF-12-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.7-1.2	0.7-1.2	1.1-1.6	1.1-1.6	0.0-0.5
Date Sampled		11/11/20	11/11/20	11/11/20	11/10/20	11/04/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-13-20	SF-14-20	SF-15-20	SF-16-20	SF-18-20
Sample ID		SF-13-20-0-0.5	SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6
Date Sampled		11/04/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-13-20	SF-14-20	SF-15-20	SF-16-20	SF-18-20
Sample ID		SF-13-20-0-0.5	SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6
Date Sampled		11/04/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-13-20	SF-14-20	SF-15-20	SF-16-20	SF-18-20
Sample ID		SF-13-20-0-0.5	SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6
Date Sampled		11/04/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	MG/KG	NA	NA	NA	NA	NA
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-13-20	SF-14-20	SF-15-20	SF-16-20	SF-18-20
Sample ID		SF-13-20-0-0.5	SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6
Date Sampled		11/04/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-13-20	SF-14-20	SF-15-20	SF-16-20	SF-18-20
Sample ID		SF-13-20-0-0.5	SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6
Date Sampled		11/04/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1221	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1232	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1242	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1248	MG/KG	140 J	5.8	0.26 U	620	0.094 J
Aroclor 1254	MG/KG	50	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1260	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1262	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Aroclor 1268	MG/KG	12 U	0.25 U	0.26 U	45 U	0.23 U
Total PCBs	MG/KG	190	5.8	0.26 U	620	0.094

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-13-20	SF-14-20	SF-15-20	SF-16-20	SF-18-20
Sample ID		SF-13-20-0-0.5	SF-14-20-0.9-1.4	SF-15-20-0.8-1.3	SF-16-20-1.0-1.5	SF-18-20-1.1-1.6
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.9-1.4	0.8-1.3	1.0-1.5	1.1-1.6
Date Sampled		11/04/20	11/10/20	11/10/20	11/10/20	11/10/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-20-20	SF-20-20	SF-21-20	SF-21-20	SF-22-20
Sample ID		SF-20-20-0-0.5	SF-20-20-0-1	SF-21-20-0-0.5	SF-21-20-0-1	SF-22-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/03/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-20-20	SF-20-20	SF-21-20	SF-21-20	SF-22-20
Sample ID		SF-20-20-0-0.5	SF-20-20-0-1	SF-21-20-0-0.5	SF-21-20-0-1	SF-22-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	2.1 U	NA	20 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-20-20	SF-20-20	SF-21-20	SF-21-20	SF-22-20
Sample ID		SF-20-20-0-0.5	SF-20-20-0-1	SF-21-20-0-0.5	SF-21-20-0-1	SF-22-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/03/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	2.1 UJ	NA	20 UJ	NA
2,4,5-Trichlorophenol	MG/KG	NA	2.1 U	NA	20 U	NA
2,4,6-Trichlorophenol	MG/KG	NA	2.1 U	NA	20 U	NA
2,4-Dichlorophenol	MG/KG	NA	2.1 U	NA	20 U	NA
2,4-Dimethylphenol	MG/KG	NA	2.1 U	NA	20 U	NA
2,4-Dinitrophenol	MG/KG	NA	20 U	NA	200 U	NA
2,4-Dinitrotoluene	MG/KG	NA	2.1 U	NA	20 U	NA
2,6-Dinitrotoluene	MG/KG	NA	2.1 U	NA	20 U	NA
2-Chloronaphthalene	MG/KG	NA	2.1 U	NA	20 U	NA
2-Chlorophenol	MG/KG	NA	4.0 U	NA	40 U	NA
2-Methylnaphthalene	MG/KG	NA	0.79 J	NA	7.9 J	NA
2-Methylphenol (o-cresol)	MG/KG	NA	2.1 U	NA	20 U	NA
2-Nitroaniline	MG/KG	NA	4.0 UJ	NA	40 UJ	NA
2-Nitrophenol	MG/KG	NA	2.1 UJ	NA	20 UJ	NA
3,3-Dichlorobenzidine	MG/KG	NA	4.0 U	NA	40 U	NA
3-Nitroaniline	MG/KG	NA	4.0 U	NA	40 U	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	4.0 U	NA	40 U	NA
4-Bromophenyl-phenylether	MG/KG	NA	2.1 U	NA	20 U	NA
4-Chloro-3-methylphenol	MG/KG	NA	2.1 U	NA	20 U	NA
4-Chloroaniline	MG/KG	NA	2.1 U	NA	20 U	NA
4-Chlorophenyl-phenylether	MG/KG	NA	2.1 U	NA	20 U	NA
4-Methylphenol (p-cresol)	MG/KG	NA	4.0 U	NA	40 U	NA
4-Nitroaniline	MG/KG	NA	4.0 U	NA	40 U	NA
4-Nitrophenol	MG/KG	NA	4.0 UJ	NA	40 UJ	NA
Acenaphthene	MG/KG	NA	6.9	NA	68	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-20-20	SF-20-20	SF-21-20	SF-21-20	SF-22-20
Sample ID		SF-20-20-0-0.5	SF-20-20-0-1	SF-21-20-0-0.5	SF-21-20-0-1	SF-22-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	0.76 J	NA	4.3 J	NA
Acetophenone	MG/KG	NA	2.1 U	NA	20 U	NA
Anthracene	MG/KG	NA	14	NA	130	NA
Atrazine	MG/KG	NA	2.1 U	NA	20 U	NA
Benzaldehyde	MG/KG	NA	2.1 U	NA	20 U	NA
Benzo(a)anthracene	MG/KG	NA	45	NA	420	NA
Benzo(a)pyrene	MG/KG	NA	48	NA	470	NA
Benzo(b)fluoranthene	MG/KG	NA	53	NA	540	NA
Benzo(g,h,i)perylene	MG/KG	NA	24	NA	250	NA
Benzo(k)fluoranthene	MG/KG	NA	24	NA	200	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	2.1 U	NA	20 U	NA
bis(2-Chloroethyl)ether	MG/KG	NA	2.1 U	NA	20 U	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	2.1 U	NA	20 U	NA
Butylbenzylphthalate	MG/KG	NA	2.1 U	NA	20 U	NA
Caprolactam	MG/KG	NA	2.1 U	NA	20 U	NA
Carbazole	MG/KG	NA	8.5	NA	80	NA
Chrysene	MG/KG	NA	44	NA	420	NA
Dibenz(a,h)anthracene	MG/KG	NA	8.4	NA	77	NA
Dibenzofuran	MG/KG	NA	3.3	NA	32	NA
Diethylphthalate	MG/KG	NA	2.1 U	NA	20 U	NA
Dimethylphthalate	MG/KG	NA	2.1 U	NA	20 U	NA
Di-n-butylphthalate	MG/KG	NA	2.1 U	NA	20 U	NA
Di-n-octylphthalate	MG/KG	NA	2.1 UJ	NA	20 UJ	NA
Fluoranthene	MG/KG	NA	100	NA	1,000	NA
Fluorene	MG/KG	NA	6.0	NA	59	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-20-20	SF-20-20	SF-21-20	SF-21-20	SF-22-20
Sample ID		SF-20-20-0-0.5	SF-20-20-0-1	SF-21-20-0-0.5	SF-21-20-0-1	SF-22-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	2.1 U	NA	20 U	NA
Hexachlorobutadiene	MG/KG	NA	2.1 U	NA	20 U	NA
Hexachlorocyclopentadiene	MG/KG	NA	2.1 UJ	NA	20 UJ	NA
Hexachloroethane	MG/KG	NA	2.1 U	NA	20 U	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	23	NA	230	NA
Isophorone	MG/KG	NA	2.1 U	NA	20 U	NA
Naphthalene	MG/KG	NA	1.5 J	NA	16 J	NA
Nitrobenzene	MG/KG	NA	2.1 U	NA	20 U	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	2.1 U	NA	20 U	NA
N-Nitrosodiphenylamine	MG/KG	NA	2.1 U	NA	20 U	NA
Pentachlorophenol	MG/KG	NA	4.0 U	NA	40 U	NA
Phenanthrene	MG/KG	NA	69	NA	690	NA
Phenol	MG/KG	NA	2.1 U	NA	20 U	NA
Pyrene	MG/KG	NA	84	NA	860	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Aroclor 1221	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Aroclor 1232	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Aroclor 1242	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Aroclor 1248	MG/KG	0.58 J	NA	0.18 J	NA	0.29 U
Aroclor 1254	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Aroclor 1260	MG/KG	0.17 J	NA	0.18 U	NA	0.29 U
Aroclor 1262	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Aroclor 1268	MG/KG	0.22 U	NA	0.18 U	NA	0.29 U
Total PCBs	MG/KG	0.75	NA	0.18	NA	0.29 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-20-20	SF-20-20	SF-21-20	SF-21-20	SF-22-20
Sample ID		SF-20-20-0-0.5	SF-20-20-0-1	SF-21-20-0-0.5	SF-21-20-0-1	SF-22-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/04/20	11/04/20	11/04/20	11/04/20	11/03/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	6,090	NA	4,260	NA
Antimony	MG/KG	NA	17.9 U	NA	37.4 U	NA
Arsenic	MG/KG	NA	4.6	NA	6.7	NA
Barium	MG/KG	NA	41.1	NA	37.4	NA
Beryllium	MG/KG	NA	0.59	NA	0.22 J	NA
Cadmium	MG/KG	NA	0.060 J	NA	0.62	NA
Calcium	MG/KG	NA	158,000	NA	146,000	NA
Chromium	MG/KG	NA	46.8	NA	215	NA
Cobalt	MG/KG	NA	6.2	NA	20.0	NA
Copper	MG/KG	NA	119	NA	140	NA
Iron	MG/KG	NA	22,000	NA	76,400	NA
Lead	MG/KG	NA	35.7	NA	107	NA
Magnesium	MG/KG	NA	40,000	NA	51,700	NA
Manganese	MG/KG	NA	533	NA	1,130	NA
Mercury	MG/KG	NA	0.032	NA	0.024	NA
Nickel	MG/KG	NA	70.2	NA	273	NA
Potassium	MG/KG	NA	1,460	NA	1,170	NA
Selenium	MG/KG	NA	4.8 U	NA	10.0 U	NA
Silver	MG/KG	NA	0.38 J	NA	1.1 J	NA
Sodium	MG/KG	NA	251	NA	241	NA
Thallium	MG/KG	NA	7.2 U	NA	7.5 U	NA
Vanadium	MG/KG	NA	13.3	NA	43.9	NA
Zinc	MG/KG	NA	86.2	NA	205	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-22-20	SF-23-20	SF-23-20	SF-24-20	SF-24-20
Sample ID		SF-22-20-0-1	SF-23-20-0-0.5	SF-23-20-0-1	SF-24-20-0-0.5	SF-24-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-22-20	SF-23-20	SF-23-20	SF-24-20	SF-24-20
Sample ID		SF-22-20-0-1	SF-23-20-0-0.5	SF-23-20-0-1	SF-24-20-0-0.5	SF-24-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-22-20	SF-23-20	SF-23-20	SF-24-20	SF-24-20
Sample ID		SF-22-20-0-1	SF-23-20-0-0.5	SF-23-20-0-1	SF-24-20-0-0.5	SF-24-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2,4,5-Trichlorophenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2,4,6-Trichlorophenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2,4-Dichlorophenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2,4-Dimethylphenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2,4-Dinitrophenol	MG/KG	2.2 U	NA	2.3 U	NA	12 U
2,4-Dinitrotoluene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2,6-Dinitrotoluene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2-Chloronaphthalene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2-Chlorophenol	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
2-Methylnaphthalene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2-Methylphenol (o-cresol)	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
2-Nitroaniline	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
2-Nitrophenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
3,3-Dichlorobenzidine	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
3-Nitroaniline	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
4,6-Dinitro-2-methylphenol	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
4-Bromophenyl-phenylether	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
4-Chloro-3-methylphenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
4-Chloroaniline	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
4-Chlorophenyl-phenylether	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
4-Methylphenol (p-cresol)	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
4-Nitroaniline	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
4-Nitrophenol	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
Acenaphthene	MG/KG	0.051 J	NA	0.24 U	NA	1.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-22-20	SF-23-20	SF-23-20	SF-24-20	SF-24-20
Sample ID		SF-22-20-0-1	SF-23-20-0-0.5	SF-23-20-0-1	SF-24-20-0-0.5	SF-24-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Acetophenone	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Anthracene	MG/KG	0.14 J	NA	0.24 U	NA	1.2 U
Atrazine	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Benzaldehyde	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Benzo(a)anthracene	MG/KG	0.38	NA	0.20 J	NA	0.51 J
Benzo(a)pyrene	MG/KG	0.39	NA	0.26	NA	0.57 J
Benzo(b)fluoranthene	MG/KG	0.46	NA	0.32	NA	0.65 J
Benzo(g,h,i)perylene	MG/KG	0.25	NA	0.17 J	NA	0.33 J
Benzo(k)fluoranthene	MG/KG	0.26	NA	0.14 J	NA	0.32 J
bis(2-Chloroethoxy)methane	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
bis(2-Chloroethyl)ether	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
bis(2-Ethylhexyl)phthalate	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Butylbenzylphthalate	MG/KG	0.22 U	NA	0.046 J	NA	1.2 U
Caprolactam	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Carbazole	MG/KG	0.057 J	NA	0.24 U	NA	1.2 U
Chrysene	MG/KG	0.38	NA	0.23 J	NA	0.40 J
Dibenz(a,h)anthracene	MG/KG	0.076 J	NA	0.051 J	NA	1.2 U
Dibenzofuran	MG/KG	0.031 J	NA	0.24 U	NA	1.2 U
Diethylphthalate	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Dimethylphthalate	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Di-n-butylphthalate	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Di-n-octylphthalate	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Fluoranthene	MG/KG	0.84	NA	0.41	NA	1.0 J
Fluorene	MG/KG	0.062 J	NA	0.24 U	NA	1.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-22-20	SF-23-20	SF-23-20	SF-24-20	SF-24-20
Sample ID		SF-22-20-0-1	SF-23-20-0-0.5	SF-23-20-0-1	SF-24-20-0-0.5	SF-24-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Hexachlorobutadiene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Hexachlorocyclopentadiene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Hexachloroethane	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Indeno(1,2,3-cd)pyrene	MG/KG	0.23	NA	0.16 J	NA	0.31 J
Isophorone	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Naphthalene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Nitrobenzene	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
N-Nitroso-di-n-propylamine	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
N-Nitrosodiphenylamine	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Pentachlorophenol	MG/KG	0.43 U	NA	0.46 U	NA	2.3 U
Phenanthrene	MG/KG	0.61	NA	0.18 J	NA	0.60 J
Phenol	MG/KG	0.22 U	NA	0.24 U	NA	1.2 U
Pyrene	MG/KG	0.67	NA	0.35	NA	0.78 J
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1221	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1232	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1242	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1248	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1254	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1260	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1262	MG/KG	NA	0.42 U	NA	0.31 U	NA
Aroclor 1268	MG/KG	NA	0.42 U	NA	0.31 U	NA
Total PCBs	MG/KG	NA	0.42 U	NA	0.31 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-22-20	SF-23-20	SF-23-20	SF-24-20	SF-24-20
Sample ID		SF-22-20-0-1	SF-23-20-0-0.5	SF-23-20-0-1	SF-24-20-0-0.5	SF-24-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	25,300	NA	19,700	NA	25,000
Antimony	MG/KG	20.7 U	NA	20.4 U	NA	22.5 U
Arsenic	MG/KG	10.7	NA	7.3	NA	6.8
Barium	MG/KG	147	NA	119	NA	137
Beryllium	MG/KG	1.3	NA	0.90	NA	1.0
Cadmium	MG/KG	0.50	NA	1.1	NA	0.32
Calcium	MG/KG	14,300	NA	10,500	NA	24,000
Chromium	MG/KG	48.5	NA	57.7	NA	37.7
Cobalt	MG/KG	13.3	NA	10.4	NA	11.3
Copper	MG/KG	29.4	NA	31.8	NA	27.5
Iron	MG/KG	51,300	NA	24,100	NA	30,800
Lead	MG/KG	59.3	NA	56.1	NA	44.4
Magnesium	MG/KG	6,810	NA	6,610	NA	10,000
Manganese	MG/KG	572	NA	439	NA	413
Mercury	MG/KG	0.12	NA	0.11	NA	0.15
Nickel	MG/KG	36.0	NA	30.7	NA	30.9
Potassium	MG/KG	4,300	NA	3,200	NA	5,200
Selenium	MG/KG	5.6	NA	2.5 J	NA	3.1 J
Silver	MG/KG	0.38 J	NA	0.52 J	NA	0.90 U
Sodium	MG/KG	141 J	NA	185 J	NA	199 J
Thallium	MG/KG	8.3 U	NA	8.2 U	NA	9.0 U
Vanadium	MG/KG	53.1	NA	37.5	NA	46.3
Zinc	MG/KG	139	NA	166	NA	152

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-25-20	SF-25-20	SF-26-20	SF-26-20	SF-27-20
Sample ID		SF-25-20-0-0.5	SF-25-20-0-1	SF-26-20-0-0.5	SF-26-20-0-1	SF-27-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-25-20	SF-25-20	SF-26-20	SF-26-20	SF-27-20
Sample ID		SF-25-20-0-0.5	SF-25-20-0-1	SF-26-20-0-0.5	SF-26-20-0-1	SF-27-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	0.24 U	NA	1.1 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-25-20	SF-25-20	SF-26-20	SF-26-20	SF-27-20
Sample ID		SF-25-20-0-0.5	SF-25-20-0-1	SF-26-20-0-0.5	SF-26-20-0-1	SF-27-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	0.24 U	NA	1.1 U	NA
2,4,5-Trichlorophenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
2,4,6-Trichlorophenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
2,4-Dichlorophenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
2,4-Dimethylphenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
2,4-Dinitrophenol	MG/KG	NA	2.4 U	NA	10 U	NA
2,4-Dinitrotoluene	MG/KG	NA	0.24 U	NA	1.1 U	NA
2,6-Dinitrotoluene	MG/KG	NA	0.24 U	NA	1.1 U	NA
2-Chloronaphthalene	MG/KG	NA	0.24 U	NA	1.1 U	NA
2-Chlorophenol	MG/KG	NA	0.48 U	NA	2.1 U	NA
2-Methylnaphthalene	MG/KG	NA	0.24 U	NA	1.1 U	NA
2-Methylphenol (o-cresol)	MG/KG	NA	0.24 U	NA	1.1 U	NA
2-Nitroaniline	MG/KG	NA	0.48 U	NA	2.1 U	NA
2-Nitrophenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
3,3-Dichlorobenzidine	MG/KG	NA	0.48 U	NA	2.1 U	NA
3-Nitroaniline	MG/KG	NA	0.48 U	NA	2.1 U	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	0.48 U	NA	2.1 U	NA
4-Bromophenyl-phenylether	MG/KG	NA	0.24 U	NA	1.1 U	NA
4-Chloro-3-methylphenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
4-Chloroaniline	MG/KG	NA	0.24 U	NA	1.1 U	NA
4-Chlorophenyl-phenylether	MG/KG	NA	0.24 U	NA	1.1 U	NA
4-Methylphenol (p-cresol)	MG/KG	NA	0.48 U	NA	2.1 U	NA
4-Nitroaniline	MG/KG	NA	0.48 U	NA	2.1 U	NA
4-Nitrophenol	MG/KG	NA	0.48 U	NA	2.1 U	NA
Acenaphthene	MG/KG	NA	0.24 U	NA	1.1 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-25-20	SF-25-20	SF-26-20	SF-26-20	SF-27-20
Sample ID		SF-25-20-0-0.5	SF-25-20-0-1	SF-26-20-0-0.5	SF-26-20-0-1	SF-27-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	0.24 U	NA	1.1 U	NA
Acetophenone	MG/KG	NA	0.24 U	NA	1.1 U	NA
Anthracene	MG/KG	NA	0.070 J	NA	0.41 J	NA
Atrazine	MG/KG	NA	0.24 U	NA	1.1 U	NA
Benzaldehyde	MG/KG	NA	0.24 U	NA	1.1 U	NA
Benzo(a)anthracene	MG/KG	NA	0.28	NA	2.2	NA
Benzo(a)pyrene	MG/KG	NA	0.33	NA	2.7	NA
Benzo(b)fluoranthene	MG/KG	NA	0.39	NA	3.3	NA
Benzo(g,h,i)perylene	MG/KG	NA	0.23 J	NA	2.0	NA
Benzo(k)fluoranthene	MG/KG	NA	0.20 J	NA	1.6	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	0.24 U	NA	1.1 U	NA
bis(2-Chloroethyl)ether	MG/KG	NA	0.24 U	NA	1.1 U	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	0.24 U	NA	1.1 U	NA
Butylbenzylphthalate	MG/KG	NA	0.24 U	NA	1.1 U	NA
Caprolactam	MG/KG	NA	0.24 U	NA	1.1 U	NA
Carbazole	MG/KG	NA	0.037 J	NA	0.23 J	NA
Chrysene	MG/KG	NA	0.30	NA	2.4	NA
Dibenz(a,h)anthracene	MG/KG	NA	0.066 J	NA	0.52 J	NA
Dibenzofuran	MG/KG	NA	0.24 U	NA	1.1 U	NA
Diethylphthalate	MG/KG	NA	0.24 U	NA	1.1 U	NA
Dimethylphthalate	MG/KG	NA	0.24 U	NA	1.1 U	NA
Di-n-butylphthalate	MG/KG	NA	0.24 U	NA	1.1 U	NA
Di-n-octylphthalate	MG/KG	NA	0.24 U	NA	1.1 U	NA
Fluoranthene	MG/KG	NA	0.61	NA	4.6	NA
Fluorene	MG/KG	NA	0.24 U	NA	1.1 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-25-20	SF-25-20	SF-26-20	SF-26-20	SF-27-20
Sample ID		SF-25-20-0-0.5	SF-25-20-0-1	SF-26-20-0-0.5	SF-26-20-0-1	SF-27-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	0.24 U	NA	1.1 U	NA
Hexachlorobutadiene	MG/KG	NA	0.24 U	NA	1.1 U	NA
Hexachlorocyclopentadiene	MG/KG	NA	0.24 U	NA	1.1 U	NA
Hexachloroethane	MG/KG	NA	0.24 U	NA	1.1 U	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	0.20 J	NA	1.8	NA
Isophorone	MG/KG	NA	0.24 U	NA	1.1 U	NA
Naphthalene	MG/KG	NA	0.24 U	NA	1.1 U	NA
Nitrobenzene	MG/KG	NA	0.24 U	NA	1.1 U	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	0.24 U	NA	1.1 U	NA
N-Nitrosodiphenylamine	MG/KG	NA	0.24 U	NA	1.1 U	NA
Pentachlorophenol	MG/KG	NA	0.48 U	NA	2.1 U	NA
Phenanthrene	MG/KG	NA	0.37	NA	2.1	NA
Phenol	MG/KG	NA	0.24 U	NA	1.1 U	NA
Pyrene	MG/KG	NA	0.51	NA	3.7	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1221	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1232	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1242	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1248	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1254	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1260	MG/KG	0.38 U	NA	0.41	NA	0.26 U
Aroclor 1262	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Aroclor 1268	MG/KG	0.38 U	NA	0.29 U	NA	0.26 U
Total PCBs	MG/KG	0.38 U	NA	0.41	NA	0.26 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-25-20	SF-25-20	SF-26-20	SF-26-20	SF-27-20
Sample ID		SF-25-20-0-0.5	SF-25-20-0-1	SF-26-20-0-0.5	SF-26-20-0-1	SF-27-20-0-0.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	25,900	NA	13,000	NA
Antimony	MG/KG	NA	21.5 U	NA	20.1 U	NA
Arsenic	MG/KG	NA	7.0	NA	5.9	NA
Barium	MG/KG	NA	125	NA	92.3	NA
Beryllium	MG/KG	NA	1.1	NA	0.76	NA
Cadmium	MG/KG	NA	0.98	NA	1.1	NA
Calcium	MG/KG	NA	5,720	NA	20,500	NA
Chromium	MG/KG	NA	66.3	NA	61.0	NA
Cobalt	MG/KG	NA	13.5	NA	6.8	NA
Copper	MG/KG	NA	34.7	NA	46.6	NA
Iron	MG/KG	NA	31,100	NA	28,100	NA
Lead	MG/KG	NA	59.7	NA	180	NA
Magnesium	MG/KG	NA	4,990	NA	4,530	NA
Manganese	MG/KG	NA	477	NA	847	NA
Mercury	MG/KG	NA	0.10	NA	0.13	NA
Nickel	MG/KG	NA	34.9	NA	28.0	NA
Potassium	MG/KG	NA	3,820	NA	1,820	NA
Selenium	MG/KG	NA	2.9 J	NA	2.9 J	NA
Silver	MG/KG	NA	0.34 J	NA	0.42 J	NA
Sodium	MG/KG	NA	143 J	NA	306	NA
Thallium	MG/KG	NA	8.6 U	NA	8.0 U	NA
Vanadium	MG/KG	NA	49.3	NA	26.8	NA
Zinc	MG/KG	NA	163	NA	224	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-27-20	SF-28-20	SF-28-20	SF-29-20	SF-29-20
Sample ID		SF-27-20-0-1	SF-28-20-0-0.5	SF-28-20-0-1	SF-29-20-0-0.5	SF-29-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-27-20	SF-28-20	SF-28-20	SF-29-20	SF-29-20
Sample ID		SF-27-20-0-1	SF-28-20-0-0.5	SF-28-20-0-1	SF-29-20-0-0.5	SF-29-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-27-20	SF-28-20	SF-28-20	SF-29-20	SF-29-20
Sample ID		SF-27-20-0-1	SF-28-20-0-0.5	SF-28-20-0-1	SF-29-20-0-0.5	SF-29-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2,4,5-Trichlorophenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2,4,6-Trichlorophenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2,4-Dichlorophenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2,4-Dimethylphenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2,4-Dinitrophenol	MG/KG	12 U	NA	11 U	NA	9.9 U
2,4-Dinitrotoluene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2,6-Dinitrotoluene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2-Chloronaphthalene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2-Chlorophenol	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
2-Methylnaphthalene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2-Methylphenol (o-cresol)	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
2-Nitroaniline	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
2-Nitrophenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
3,3-Dichlorobenzidine	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
3-Nitroaniline	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
4,6-Dinitro-2-methylphenol	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
4-Bromophenyl-phenylether	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
4-Chloro-3-methylphenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
4-Chloroaniline	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
4-Chlorophenyl-phenylether	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
4-Methylphenol (p-cresol)	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
4-Nitroaniline	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
4-Nitrophenol	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
Acenaphthene	MG/KG	1.3 U	NA	1.1 U	NA	0.17 J

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-27-20	SF-28-20	SF-28-20	SF-29-20	SF-29-20
Sample ID		SF-27-20-0-1	SF-28-20-0-0.5	SF-28-20-0-1	SF-29-20-0-0.5	SF-29-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	1.3 U	NA	1.1 U	NA	0.30 J
Acetophenone	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Anthracene	MG/KG	0.32 J	NA	0.46 J	NA	0.58 J
Atrazine	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Benzaldehyde	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Benzo(a)anthracene	MG/KG	1.7	NA	2.0	NA	3.2
Benzo(a)pyrene	MG/KG	2.1	NA	2.4	NA	4.3
Benzo(b)fluoranthene	MG/KG	2.9	NA	2.9	NA	6.3
Benzo(g,h,i)perylene	MG/KG	1.9	NA	1.8	NA	3.4
Benzo(k)fluoranthene	MG/KG	1.4	NA	1.5	NA	2.3
bis(2-Chloroethoxy)methane	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
bis(2-Chloroethyl)ether	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
bis(2-Ethylhexyl)phthalate	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Butylbenzylphthalate	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Caprolactam	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Carbazole	MG/KG	0.18 J	NA	0.16 J	NA	0.43 J
Chrysene	MG/KG	2.0	NA	2.2	NA	4.3
Dibenz(a,h)anthracene	MG/KG	0.39 J	NA	0.48 J	NA	0.88 J
Dibenzofuran	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Diethylphthalate	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Dimethylphthalate	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Di-n-butylphthalate	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Di-n-octylphthalate	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Fluoranthene	MG/KG	3.6	NA	4.2	NA	7.6
Fluorene	MG/KG	1.3 U	NA	1.1 U	NA	0.16 J

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-27-20	SF-28-20	SF-28-20	SF-29-20	SF-29-20
Sample ID		SF-27-20-0-1	SF-28-20-0-0.5	SF-28-20-0-1	SF-29-20-0-0.5	SF-29-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Hexachlorobutadiene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Hexachlorocyclopentadiene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Hexachloroethane	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Indeno(1,2,3-cd)pyrene	MG/KG	1.6	NA	1.6	NA	3.1
Isophorone	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Naphthalene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Nitrobenzene	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
N-Nitroso-di-n-propylamine	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
N-Nitrosodiphenylamine	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Pentachlorophenol	MG/KG	2.5 U	NA	2.1 U	NA	2.0 U
Phenanthrene	MG/KG	1.5	NA	1.9	NA	3.0
Phenol	MG/KG	1.3 U	NA	1.1 U	NA	1.0 U
Pyrene	MG/KG	2.7	NA	3.3	NA	5.9
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1221	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1232	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1242	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1248	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1254	MG/KG	NA	0.37 U	NA	0.92	NA
Aroclor 1260	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1262	MG/KG	NA	0.37 U	NA	0.28 U	NA
Aroclor 1268	MG/KG	NA	0.37 U	NA	0.28 U	NA
Total PCBs	MG/KG	NA	0.37 U	NA	0.92	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-27-20	SF-28-20	SF-28-20	SF-29-20	SF-29-20
Sample ID		SF-27-20-0-1	SF-28-20-0-0.5	SF-28-20-0-1	SF-29-20-0-0.5	SF-29-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-1.0	0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/03/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	18,500	NA	21,100	NA	10,100
Antimony	MG/KG	21.5 U	NA	20.3 U	NA	91.8 U
Arsenic	MG/KG	6.8	NA	5.2	NA	13.6
Barium	MG/KG	103	NA	132	NA	92.6
Beryllium	MG/KG	0.83	NA	1.1	NA	0.81
Cadmium	MG/KG	0.48	NA	0.31	NA	1.4
Calcium	MG/KG	12,400	NA	43,500	NA	71,400
Chromium	MG/KG	38.1	NA	46.5	NA	292
Cobalt	MG/KG	9.0	NA	10.8	NA	14.8
Copper	MG/KG	24.4	NA	27.3	NA	209
Iron	MG/KG	23,500	NA	26,200	NA	116,000
Lead	MG/KG	97.5	NA	71.6	NA	139
Magnesium	MG/KG	4,760	NA	13,900	NA	18,900
Manganese	MG/KG	584	NA	848	NA	1,380
Mercury	MG/KG	0.11	NA	0.11	NA	0.13
Nickel	MG/KG	23.5	NA	30.4	NA	104
Potassium	MG/KG	3,050	NA	5,430	NA	2,050
Selenium	MG/KG	2.4 J	NA	2.1 J	NA	24.5 U
Silver	MG/KG	0.34 J	NA	0.81 U	NA	3.7 U
Sodium	MG/KG	195 J	NA	321	NA	180
Thallium	MG/KG	8.6 U	NA	8.1 U	NA	7.3 U
Vanadium	MG/KG	34.9	NA	43.9	NA	24.6
Zinc	MG/KG	144	NA	113	NA	222

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-30-20	SF-30-20	SF-31-20	SF-31-20	SF-32-20
Sample ID		SF-30-20-0-0.5	SF-30-20-0-1	SF-31-20-0-0.5	SF-31-20-0-1	SF-32-20-1.3-1.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	1.3-1.8
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/10/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-30-20	SF-30-20	SF-31-20	SF-31-20	SF-32-20
Sample ID		SF-30-20-0-0.5	SF-30-20-0-1	SF-31-20-0-0.5	SF-31-20-0-1	SF-32-20-1.3-1.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	1.3-1.8
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/10/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	2.0 U	NA	0.90 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-30-20	SF-30-20	SF-31-20	SF-31-20	SF-32-20
Sample ID		SF-30-20-0-0.5	SF-30-20-0-1	SF-31-20-0-0.5	SF-31-20-0-1	SF-32-20-1.3-1.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	1.3-1.8
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	2.0 U	NA	0.90 U	NA
2,4,5-Trichlorophenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
2,4,6-Trichlorophenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
2,4-Dichlorophenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
2,4-Dimethylphenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
2,4-Dinitrophenol	MG/KG	NA	20 U	NA	8.8 U	NA
2,4-Dinitrotoluene	MG/KG	NA	2.0 U	NA	0.90 U	NA
2,6-Dinitrotoluene	MG/KG	NA	2.0 U	NA	0.90 U	NA
2-Chloronaphthalene	MG/KG	NA	2.0 U	NA	0.90 U	NA
2-Chlorophenol	MG/KG	NA	4.0 U	NA	1.7 U	NA
2-Methylnaphthalene	MG/KG	NA	2.0 U	NA	0.90 U	NA
2-Methylphenol (o-cresol)	MG/KG	NA	2.0 U	NA	0.90 U	NA
2-Nitroaniline	MG/KG	NA	4.0 U	NA	1.7 U	NA
2-Nitrophenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
3,3-Dichlorobenzidine	MG/KG	NA	4.0 U	NA	1.7 U	NA
3-Nitroaniline	MG/KG	NA	4.0 U	NA	1.7 U	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	4.0 U	NA	1.7 U	NA
4-Bromophenyl-phenylether	MG/KG	NA	2.0 U	NA	0.90 U	NA
4-Chloro-3-methylphenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
4-Chloroaniline	MG/KG	NA	2.0 U	NA	0.90 U	NA
4-Chlorophenyl-phenylether	MG/KG	NA	2.0 U	NA	0.90 U	NA
4-Methylphenol (p-cresol)	MG/KG	NA	4.0 U	NA	1.7 U	NA
4-Nitroaniline	MG/KG	NA	4.0 U	NA	1.7 U	NA
4-Nitrophenol	MG/KG	NA	4.0 U	NA	1.7 U	NA
Acenaphthene	MG/KG	NA	2.0 U	NA	0.16 J	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-30-20	SF-30-20	SF-31-20	SF-31-20	SF-32-20
Sample ID		SF-30-20-0-0.5	SF-30-20-0-1	SF-31-20-0-0.5	SF-31-20-0-1	SF-32-20-1.3-1.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	1.3-1.8
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	0.44 J	NA	1.0	NA
Acetophenone	MG/KG	NA	2.0 U	NA	0.90 U	NA
Anthracene	MG/KG	NA	0.91 J	NA	0.83 J	NA
Atrazine	MG/KG	NA	2.0 U	NA	0.90 U	NA
Benzaldehyde	MG/KG	NA	2.0 U	NA	0.90 U	NA
Benzo(a)anthracene	MG/KG	NA	4.8	NA	5.5	NA
Benzo(a)pyrene	MG/KG	NA	5.7	NA	6.6	NA
Benzo(b)fluoranthene	MG/KG	NA	7.8	NA	9.3	NA
Benzo(g,h,i)perylene	MG/KG	NA	4.7	NA	4.9	NA
Benzo(k)fluoranthene	MG/KG	NA	3.3	NA	4.0	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	2.0 U	NA	0.90 U	NA
bis(2-Chloroethyl)ether	MG/KG	NA	2.0 U	NA	0.90 U	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	2.0 U	NA	0.90 U	NA
Butylbenzylphthalate	MG/KG	NA	2.0 U	NA	0.90 U	NA
Caprolactam	MG/KG	NA	2.0 U	NA	0.90 U	NA
Carbazole	MG/KG	NA	0.32 J	NA	0.54 J	NA
Chrysene	MG/KG	NA	5.3	NA	6.1	NA
Dibenz(a,h)anthracene	MG/KG	NA	1.3 J	NA	1.2	NA
Dibenzofuran	MG/KG	NA	2.0 U	NA	0.90 U	NA
Diethylphthalate	MG/KG	NA	2.0 U	NA	0.90 U	NA
Dimethylphthalate	MG/KG	NA	2.0 U	NA	0.90 U	NA
Di-n-butylphthalate	MG/KG	NA	2.0 U	NA	0.90 U	NA
Di-n-octylphthalate	MG/KG	NA	2.0 U	NA	0.90 U	NA
Fluoranthene	MG/KG	NA	11	NA	9.6	NA
Fluorene	MG/KG	NA	2.0 U	NA	0.14 J	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-30-20	SF-30-20	SF-31-20	SF-31-20	SF-32-20
Sample ID		SF-30-20-0-0.5	SF-30-20-0-1	SF-31-20-0-0.5	SF-31-20-0-1	SF-32-20-1.3-1.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	1.3-1.8
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/10/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	2.0 U	NA	0.90 U	NA
Hexachlorobutadiene	MG/KG	NA	2.0 U	NA	0.90 U	NA
Hexachlorocyclopentadiene	MG/KG	NA	2.0 U	NA	0.90 U	NA
Hexachloroethane	MG/KG	NA	2.0 U	NA	0.90 U	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	4.3	NA	4.5	NA
Isophorone	MG/KG	NA	2.0 U	NA	0.90 U	NA
Naphthalene	MG/KG	NA	2.0 U	NA	0.90 U	NA
Nitrobenzene	MG/KG	NA	2.0 U	NA	0.90 U	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	2.0 U	NA	0.90 U	NA
N-Nitrosodiphenylamine	MG/KG	NA	2.0 U	NA	0.90 U	NA
Pentachlorophenol	MG/KG	NA	4.0 U	NA	1.7 U	NA
Phenanthrene	MG/KG	NA	4.0	NA	2.9	NA
Phenol	MG/KG	NA	2.0 U	NA	0.90 U	NA
Pyrene	MG/KG	NA	8.6	NA	9.7	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1221	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1232	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1242	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1248	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1254	MG/KG	0.98	NA	1.3	NA	0.23 U
Aroclor 1260	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1262	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Aroclor 1268	MG/KG	0.26 U	NA	0.23 U	NA	0.23 U
Total PCBs	MG/KG	0.98	NA	1.3	NA	0.23 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-30-20	SF-30-20	SF-31-20	SF-31-20	SF-32-20
Sample ID		SF-30-20-0-0.5	SF-30-20-0-1	SF-31-20-0-0.5	SF-31-20-0-1	SF-32-20-1.3-1.8
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	1.3-1.8
Date Sampled		11/03/20	11/03/20	11/03/20	11/03/20	11/10/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	NA	13,000	NA	10,400	NA
Antimony	MG/KG	NA	37.1 U	NA	30.8 U	NA
Arsenic	MG/KG	NA	14.3	NA	6.1	NA
Barium	MG/KG	NA	139	NA	85.0	NA
Beryllium	MG/KG	NA	1.6	NA	0.77	NA
Cadmium	MG/KG	NA	1.3	NA	1.6	NA
Calcium	MG/KG	NA	41,600	NA	23,500	NA
Chromium	MG/KG	NA	220	NA	153	NA
Cobalt	MG/KG	NA	14.3	NA	10.0	NA
Copper	MG/KG	NA	163	NA	107	NA
Iron	MG/KG	NA	102,000	NA	71,200	NA
Lead	MG/KG	NA	115	NA	132	NA
Magnesium	MG/KG	NA	5,080	NA	6,910	NA
Manganese	MG/KG	NA	2,270	NA	1,060	NA
Mercury	MG/KG	NA	0.16	NA	0.35	NA
Nickel	MG/KG	NA	111	NA	56.1	NA
Potassium	MG/KG	NA	1,560	NA	2,080	NA
Selenium	MG/KG	NA	1.7 J	NA	8.2 U	NA
Silver	MG/KG	NA	1.5 U	NA	1.2 U	NA
Sodium	MG/KG	NA	344	NA	131 J	NA
Thallium	MG/KG	NA	7.4 U	NA	6.2 U	NA
Vanadium	MG/KG	NA	23.9	NA	20.8	NA
Zinc	MG/KG	NA	229	NA	235	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-33-20	SF-33-20	SF-34-20	SF-34-20	SF-35-20
Sample ID		SF-33-20-0-0.5	SF-33-20-0-1	SF-34-20-0-0.5	SF-34-20-0-1	SF-35-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.8-1.3
Date Sampled		11/04/20	11/04/20	11/05/20	11/05/20	11/10/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-33-20	SF-33-20	SF-34-20	SF-34-20	SF-35-20
Sample ID		SF-33-20-0-0.5	SF-33-20-0-1	SF-34-20-0-0.5	SF-34-20-0-1	SF-35-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.8-1.3
Date Sampled		11/04/20	11/04/20	11/05/20	11/05/20	11/10/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	0.88 U	NA	1.8 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-33-20	SF-33-20	SF-34-20	SF-34-20	SF-35-20
Sample ID		SF-33-20-0-0.5	SF-33-20-0-1	SF-34-20-0-0.5	SF-34-20-0-1	SF-35-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.8-1.3
Date Sampled		11/04/20	11/04/20	11/05/20	11/05/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	NA	0.88 UJ	NA	1.8 UJ	NA
2,4,5-Trichlorophenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
2,4,6-Trichlorophenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
2,4-Dichlorophenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
2,4-Dimethylphenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
2,4-Dinitrophenol	MG/KG	NA	8.6 U	NA	18 U	NA
2,4-Dinitrotoluene	MG/KG	NA	0.88 U	NA	1.8 U	NA
2,6-Dinitrotoluene	MG/KG	NA	0.88 U	NA	1.8 U	NA
2-Chloronaphthalene	MG/KG	NA	0.88 U	NA	1.8 U	NA
2-Chlorophenol	MG/KG	NA	1.7 U	NA	3.5 U	NA
2-Methylnaphthalene	MG/KG	NA	0.88 U	NA	1.8 U	NA
2-Methylphenol (o-cresol)	MG/KG	NA	0.88 U	NA	1.8 U	NA
2-Nitroaniline	MG/KG	NA	1.7 UJ	NA	3.5 U	NA
2-Nitrophenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
3,3-Dichlorobenzidine	MG/KG	NA	1.7 U	NA	3.5 U	NA
3-Nitroaniline	MG/KG	NA	1.7 U	NA	3.5 U	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	1.7 U	NA	3.5 U	NA
4-Bromophenyl-phenylether	MG/KG	NA	0.88 U	NA	1.8 U	NA
4-Chloro-3-methylphenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
4-Chloroaniline	MG/KG	NA	0.88 U	NA	1.8 U	NA
4-Chlorophenyl-phenylether	MG/KG	NA	0.88 U	NA	1.8 U	NA
4-Methylphenol (p-cresol)	MG/KG	NA	1.7 U	NA	3.5 U	NA
4-Nitroaniline	MG/KG	NA	1.7 U	NA	3.5 U	NA
4-Nitrophenol	MG/KG	NA	1.7 UJ	NA	3.5 U	NA
Acenaphthene	MG/KG	NA	1.6	NA	0.59 J	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-33-20	SF-33-20	SF-34-20	SF-34-20	SF-35-20
Sample ID		SF-33-20-0-0.5	SF-33-20-0-1	SF-34-20-0-0.5	SF-34-20-0-1	SF-35-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.8-1.3
Date Sampled		11/04/20	11/04/20	11/05/20	11/05/20	11/10/20
Parameter	Units					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	NA	0.20 J	NA	1.8 U	NA
Acetophenone	MG/KG	NA	0.88 U	NA	1.8 U	NA
Anthracene	MG/KG	NA	3.3	NA	1.2 J	NA
Atrazine	MG/KG	NA	0.88 U	NA	1.8 U	NA
Benzaldehyde	MG/KG	NA	0.88 U	NA	1.8 U	NA
Benzo(a)anthracene	MG/KG	NA	13	NA	3.0	NA
Benzo(a)pyrene	MG/KG	NA	14	NA	3.3	NA
Benzo(b)fluoranthene	MG/KG	NA	15	NA	4.1	NA
Benzo(g,h,i)perylene	MG/KG	NA	7.0	NA	2.1	NA
Benzo(k)fluoranthene	MG/KG	NA	7.8	NA	1.8	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	0.88 U	NA	1.8 U	NA
bis(2-Chloroethyl)ether	MG/KG	NA	0.88 U	NA	1.8 U	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	0.88 U	NA	1.8 U	NA
Butylbenzylphthalate	MG/KG	NA	0.88 U	NA	1.8 U	NA
Caprolactam	MG/KG	NA	0.88 U	NA	1.8 U	NA
Carbazole	MG/KG	NA	2.0	NA	0.71 J	NA
Chrysene	MG/KG	NA	12	NA	2.9	NA
Dibenz(a,h)anthracene	MG/KG	NA	2.4	NA	0.70 J	NA
Dibenzofuran	MG/KG	NA	0.70 J	NA	0.32 J	NA
Diethylphthalate	MG/KG	NA	0.88 U	NA	1.8 U	NA
Dimethylphthalate	MG/KG	NA	0.88 U	NA	1.8 U	NA
Di-n-butylphthalate	MG/KG	NA	0.88 U	NA	1.8 U	NA
Di-n-octylphthalate	MG/KG	NA	0.88 UJ	NA	1.8 U	NA
Fluoranthene	MG/KG	NA	29	NA	7.3	NA
Fluorene	MG/KG	NA	1.4	NA	0.46 J	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-33-20	SF-33-20	SF-34-20	SF-34-20	SF-35-20
Sample ID		SF-33-20-0-0.5	SF-33-20-0-1	SF-34-20-0-0.5	SF-34-20-0-1	SF-35-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.8-1.3
Date Sampled		11/04/20	11/04/20	11/05/20	11/05/20	11/10/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	NA	0.88 U	NA	1.8 U	NA
Hexachlorobutadiene	MG/KG	NA	0.88 U	NA	1.8 U	NA
Hexachlorocyclopentadiene	MG/KG	NA	0.88 UJ	NA	1.8 U	NA
Hexachloroethane	MG/KG	NA	0.88 U	NA	1.8 U	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	6.6	NA	2.0	NA
Isophorone	MG/KG	NA	0.88 U	NA	1.8 U	NA
Naphthalene	MG/KG	NA	0.35 J	NA	1.8 U	NA
Nitrobenzene	MG/KG	NA	0.88 U	NA	1.8 U	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	0.88 U	NA	1.8 U	NA
N-Nitrosodiphenylamine	MG/KG	NA	0.88 U	NA	1.8 U	NA
Pentachlorophenol	MG/KG	NA	1.7 U	NA	3.5 U	NA
Phenanthrene	MG/KG	NA	17	NA	4.9	NA
Phenol	MG/KG	NA	0.88 U	NA	1.8 U	NA
Pyrene	MG/KG	NA	21	NA	5.2	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Aroclor 1221	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Aroclor 1232	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Aroclor 1242	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Aroclor 1248	MG/KG	0.65 J	NA	14 J	NA	0.20 J
Aroclor 1254	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Aroclor 1260	MG/KG	0.14 J	NA	3.7 J	NA	0.26 U
Aroclor 1262	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Aroclor 1268	MG/KG	0.20 U	NA	2.1 U	NA	0.26 U
Total PCBs	MG/KG	0.79	NA	17.7	NA	0.2

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-33-20	SF-33-20	SF-34-20	SF-34-20	SF-35-20
Sample ID		SF-33-20-0-0.5	SF-33-20-0-1	SF-34-20-0-0.5	SF-34-20-0-1	SF-35-20-0.8-1.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-1.0	0.0-0.5	0.0-1.0	0.8-1.3
Date Sampled		11/04/20	11/04/20	11/05/20	11/05/20	11/10/20
Parameter	Units					
Metals						
Aluminum	MG/KG	NA	2,880	NA	5,090	NA
Antimony	MG/KG	NA	15.2 U	NA	33.4 U	NA
Arsenic	MG/KG	NA	3.8	NA	6.4	NA
Barium	MG/KG	NA	17.0	NA	47.3	NA
Beryllium	MG/KG	NA	0.16 J	NA	0.24	NA
Cadmium	MG/KG	NA	0.33	NA	0.13 J	NA
Calcium	MG/KG	NA	136,000	NA	76,300	NA
Chromium	MG/KG	NA	24.2	NA	87.0	NA
Cobalt	MG/KG	NA	3.7	NA	11.5	NA
Copper	MG/KG	NA	19.0	NA	123	NA
Iron	MG/KG	NA	10,400	NA	82,200	NA
Lead	MG/KG	NA	28.7	NA	109	NA
Magnesium	MG/KG	NA	30,700	NA	45,700	NA
Manganese	MG/KG	NA	334	NA	1,050	NA
Mercury	MG/KG	NA	0.018	NA	0.057	NA
Nickel	MG/KG	NA	19.0	NA	135	NA
Potassium	MG/KG	NA	1,080	NA	1,570	NA
Selenium	MG/KG	NA	4.1 U	NA	8.9 U	NA
Silver	MG/KG	NA	0.61 U	NA	1.1 J	NA
Sodium	MG/KG	NA	151	NA	171	NA
Thallium	MG/KG	NA	6.1 U	NA	6.7 U	NA
Vanadium	MG/KG	NA	7.7	NA	19.2	NA
Zinc	MG/KG	NA	118	NA	170	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-35-20	SF-36-20	SF-36-20	SF-36-20	SF-36-20
Sample ID		SF-35-20-0.8-1.8	FD-110520-2	SF-36-20-0-0.5	FD-110520-3	SF-36-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.8	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled		11/10/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,1-Dichloroethene	MG/KG	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	MG/KG	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethane	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	MG/KG	NA	NA	NA	NA	NA
1,2-Dichloropropane	MG/KG	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	MG/KG	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	MG/KG	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	MG/KG	NA	NA	NA	NA	NA
2-Hexanone	MG/KG	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	MG/KG	NA	NA	NA	NA	NA
Acetone	MG/KG	NA	NA	NA	NA	NA
Benzene	MG/KG	NA	NA	NA	NA	NA
Bromodichloromethane	MG/KG	NA	NA	NA	NA	NA
Bromoform	MG/KG	NA	NA	NA	NA	NA
Bromomethane	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-35-20	SF-36-20	SF-36-20	SF-36-20	SF-36-20
Sample ID		SF-35-20-0.8-1.8	FD-110520-2	SF-36-20-0-0.5	FD-110520-3	SF-36-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.8	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled		11/10/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
Carbon disulfide	MG/KG	NA	NA	NA	NA	NA
Carbon tetrachloride	MG/KG	NA	NA	NA	NA	NA
Chlorobenzene	MG/KG	NA	NA	NA	NA	NA
Chloroethane	MG/KG	NA	NA	NA	NA	NA
Chloroform	MG/KG	NA	NA	NA	NA	NA
Chloromethane	MG/KG	NA	NA	NA	NA	NA
Cyclohexane	MG/KG	NA	NA	NA	NA	NA
Dibromochloromethane	MG/KG	NA	NA	NA	NA	NA
Dichlorodifluoromethane	MG/KG	NA	NA	NA	NA	NA
Ethylbenzene	MG/KG	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	MG/KG	NA	NA	NA	NA	NA
Methyl acetate	MG/KG	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	NA	NA	NA	NA
Methyl tert-butyl ether	MG/KG	NA	NA	NA	NA	NA
Methylcyclohexane	MG/KG	NA	NA	NA	NA	NA
Methylene chloride	MG/KG	NA	NA	NA	NA	NA
Styrene	MG/KG	NA	NA	NA	NA	NA
Tetrachloroethene	MG/KG	NA	NA	NA	NA	NA
Toluene	MG/KG	NA	NA	NA	NA	NA
Trichloroethene	MG/KG	NA	NA	NA	NA	NA
Trichlorofluoromethane	MG/KG	NA	NA	NA	NA	NA
Vinyl chloride	MG/KG	NA	NA	NA	NA	NA
Xylene (total)	MG/KG	NA	NA	NA	NA	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-35-20	SF-36-20	SF-36-20	SF-36-20	SF-36-20
Sample ID		SF-35-20-0.8-1.8	FD-110520-2	SF-36-20-0-0.5	FD-110520-3	SF-36-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.8	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled		11/10/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	0.19 UJ	NA	NA	0.89 UJ	9.0 UJ
2,4,5-Trichlorophenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2,4,6-Trichlorophenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2,4-Dichlorophenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2,4-Dimethylphenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2,4-Dinitrophenol	MG/KG	1.8 U	NA	NA	8.7 U	88 U
2,4-Dinitrotoluene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2,6-Dinitrotoluene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2-Chloronaphthalene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2-Chlorophenol	MG/KG	0.36 U	NA	NA	1.7 U	18 U
2-Methylnaphthalene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2-Methylphenol (o-cresol)	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
2-Nitroaniline	MG/KG	0.36 U	NA	NA	1.7 U	18 U
2-Nitrophenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
3,3-Dichlorobenzidine	MG/KG	0.36 U	NA	NA	1.7 U	18 U
3-Nitroaniline	MG/KG	0.36 U	NA	NA	1.7 U	18 U
4,6-Dinitro-2-methylphenol	MG/KG	0.36 U	NA	NA	1.7 U	18 U
4-Bromophenyl-phenylether	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
4-Chloro-3-methylphenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
4-Chloroaniline	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
4-Chlorophenyl-phenylether	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
4-Methylphenol (p-cresol)	MG/KG	0.36 U	NA	NA	1.7 U	18 U
4-Nitroaniline	MG/KG	0.36 U	NA	NA	1.7 U	18 U
4-Nitrophenol	MG/KG	0.36 U	NA	NA	1.7 U	18 U
Acenaphthene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-35-20	SF-36-20	SF-36-20	SF-36-20	SF-36-20
Sample ID		SF-35-20-0.8-1.8	FD-110520-2	SF-36-20-0-0.5	FD-110520-3	SF-36-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.8	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled		11/10/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Acetophenone	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Anthracene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Atrazine	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Benzaldehyde	MG/KG	0.19 UJ	NA	NA	0.89 U	9.0 U
Benzo(a)anthracene	MG/KG	0.19 U	NA	NA	0.33 J	9.0 U
Benzo(a)pyrene	MG/KG	0.19 U	NA	NA	0.38 J	9.0 U
Benzo(b)fluoranthene	MG/KG	0.038 J	NA	NA	0.43 J	9.0 U
Benzo(g,h,i)perylene	MG/KG	0.021 J	NA	NA	0.32 J	9.0 U
Benzo(k)fluoranthene	MG/KG	0.19 U	NA	NA	0.28 J	9.0 U
bis(2-Chloroethoxy)methane	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
bis(2-Chloroethyl)ether	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
bis(2-Ethylhexyl)phthalate	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Butylbenzylphthalate	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Caprolactam	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Carbazole	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Chrysene	MG/KG	0.19 U	NA	NA	0.33 J	9.0 U
Dibenz(a,h)anthracene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Dibenzofuran	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Diethylphthalate	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Dimethylphthalate	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Di-n-butylphthalate	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Di-n-octylphthalate	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Fluoranthene	MG/KG	0.047 J	NA	NA	0.69 J	0.96 J
Fluorene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-35-20	SF-36-20	SF-36-20	SF-36-20	SF-36-20
Sample ID		SF-35-20-0.8-1.8	FD-110520-2	SF-36-20-0-0.5	FD-110520-3	SF-36-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.8	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled		11/10/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Hexachlorobutadiene	MG/KG	0.19 UJ	NA	NA	0.89 U	9.0 U
Hexachlorocyclopentadiene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Hexachloroethane	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Indeno(1,2,3-cd)pyrene	MG/KG	0.19 U	NA	NA	0.27 J	9.0 U
Isophorone	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Naphthalene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Nitrobenzene	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
N-Nitroso-di-n-propylamine	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
N-Nitrosodiphenylamine	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Pentachlorophenol	MG/KG	0.36 U	NA	NA	1.7 U	18 U
Phenanthrene	MG/KG	0.19 U	NA	NA	0.42 J	9.0 U
Phenol	MG/KG	0.19 U	NA	NA	0.89 U	9.0 U
Pyrene	MG/KG	0.036 J	NA	NA	0.52 J	9.0 U
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1221	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1232	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1242	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1248	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1254	MG/KG	NA	0.30	0.32	NA	NA
Aroclor 1260	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1262	MG/KG	NA	0.25 U	0.22 U	NA	NA
Aroclor 1268	MG/KG	NA	0.25 U	0.22 U	NA	NA
Total PCBs	MG/KG	NA	0.3	0.32	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SF-35-20	SF-36-20	SF-36-20	SF-36-20	SF-36-20
Sample ID		SF-35-20-0.8-1.8	FD-110520-2	SF-36-20-0-0.5	FD-110520-3	SF-36-20-0-1
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.8-1.8	0.0-0.5	0.0-0.5	0.0-1.0	0.0-1.0
Date Sampled		11/10/20	11/05/20	11/05/20	11/05/20	11/05/20
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Metals						
Aluminum	MG/KG	5,110	NA	NA	5,160	4,130
Antimony	MG/KG	16.9 U	NA	NA	16.3 UJ	15.3 UJ
Arsenic	MG/KG	2.6	NA	NA	2.8	3.7
Barium	MG/KG	25.0	NA	NA	62.9 J+	49.0 J+
Beryllium	MG/KG	0.28	NA	NA	0.67	0.41
Cadmium	MG/KG	0.17 J	NA	NA	0.22 U	0.20 U
Calcium	MG/KG	68,500	NA	NA	138,000	135,000
Chromium	MG/KG	9.0	NA	NA	52.3 J-	88.4 J-
Cobalt	MG/KG	2.9	NA	NA	6.3	9.7
Copper	MG/KG	8.2	NA	NA	71.3 J-	141 J-
Iron	MG/KG	8,180	NA	NA	30,000	48,400
Lead	MG/KG	7.4	NA	NA	43.0 J-	71.1 J-
Magnesium	MG/KG	28,600	NA	NA	21,600	16,800
Manganese	MG/KG	232	NA	NA	808	747 J+
Mercury	MG/KG	0.011 J	NA	NA	0.032	0.028
Nickel	MG/KG	9.9	NA	NA	106 J-	155 J-
Potassium	MG/KG	1,740	NA	NA	998	1,080
Selenium	MG/KG	4.5 U	NA	NA	4.3 U	4.1 U
Silver	MG/KG	0.68 U	NA	NA	0.49 J	0.80
Sodium	MG/KG	197	NA	NA	202	182
Thallium	MG/KG	6.8 U	NA	NA	6.5 U	6.1 U
Vanadium	MG/KG	14.4	NA	NA	9.4	12.4
Zinc	MG/KG	43.1	NA	NA	99.9 J-	133 J-

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-02	TP-03	TP-03	TP-03	TP-04
Sample ID		TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5	4.0-4.3
Date Sampled		12/08/20	12/08/20	12/08/20	12/08/20	12/09/20
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,1,2,2-Tetrachloroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,1,2-Trichloroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,1-Dichloroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,1-Dichloroethene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2,4-Trichlorobenzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dibromo-3-chloropropane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dichlorobenzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dichloroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dichloroethene (cis)	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dichloroethene (trans)	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,2-Dichloropropane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,3-Dichlorobenzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,3-Dichloropropene (cis)	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,3-Dichloropropene (trans)	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
1,4-Dichlorobenzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
2-Hexanone	MG/KG	0.029 U	NA	0.031 U	0.031 U	0.036 U
4-Methyl-2-pentanone	MG/KG	0.029 U	NA	0.031 U	0.031 U	0.036 U
Acetone	MG/KG	0.029 U	NA	0.019 J	0.031 U	0.036 U
Benzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Bromodichloromethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Bromoform	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Bromomethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-02	TP-03	TP-03	TP-03	TP-04
Sample ID		TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5	4.0-4.3
Date Sampled		12/08/20	12/08/20	12/08/20	12/08/20	12/09/20
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Carbon disulfide	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Carbon tetrachloride	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Chlorobenzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Chloroethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Chloroform	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Chloromethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Cyclohexane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Dibromochloromethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Dichlorodifluoromethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Ethylbenzene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Isopropylbenzene (Cumene)	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Methyl acetate	MG/KG	0.029 U	NA	0.031 U	0.031 U	0.036 U
Methyl ethyl ketone (2-Butanone)	MG/KG	0.029 U	NA	0.031 U	0.031 U	0.036 U
Methyl tert-butyl ether	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Methylcyclohexane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Methylene chloride	MG/KG	0.0058 U	NA	0.0036 J	0.0028 J	0.0072 U
Styrene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Tetrachloroethene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Toluene	MG/KG	0.0058 U	NA	0.00088 J	0.0012 J	0.0017 J
Trichloroethene	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Trichlorofluoromethane	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Vinyl chloride	MG/KG	0.0058 U	NA	0.0063 U	0.0061 U	0.0072 U
Xylene (total)	MG/KG	0.012 U	NA	0.013 U	0.012 U	0.014 U
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-02	TP-03	TP-03	TP-03	TP-04
Sample ID		TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5	4.0-4.3
Date Sampled		12/08/20	12/08/20	12/08/20	12/08/20	12/09/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2,4,5-Trichlorophenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2,4,6-Trichlorophenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2,4-Dichlorophenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2,4-Dimethylphenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2,4-Dinitrophenol	MG/KG	9.8 U	NA	2.1 U	2.0 U	2.4 U
2,4-Dinitrotoluene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2,6-Dinitrotoluene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2-Chloronaphthalene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2-Chlorophenol	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
2-Methylnaphthalene	MG/KG	1.0 U	NA	0.21 U	0.051 J	0.25 U
2-Methylphenol (o-cresol)	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
2-Nitroaniline	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
2-Nitrophenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
3,3-Dichlorobenzidine	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
3-Nitroaniline	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
4,6-Dinitro-2-methylphenol	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
4-Bromophenyl-phenylether	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
4-Chloro-3-methylphenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
4-Chloroaniline	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
4-Chlorophenyl-phenylether	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
4-Methylphenol (p-cresol)	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
4-Nitroaniline	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
4-Nitrophenol	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
Acenaphthene	MG/KG	1.0 U	NA	0.21 UJ	1.2 J	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-02	TP-03	TP-03	TP-03	TP-04
Sample ID		TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5	4.0-4.3
Date Sampled		12/08/20	12/08/20	12/08/20	12/08/20	12/09/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	1.0 U	NA	0.21 U	0.030 J	0.25 U
Acetophenone	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Anthracene	MG/KG	1.0 U	NA	0.21 UJ	1.7 J	0.25 U
Atrazine	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Benzaldehyde	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Benzo(a)anthracene	MG/KG	1.0 U	NA	0.21 UJ	6.9 J	0.25 U
Benzo(a)pyrene	MG/KG	1.0 U	NA	0.21 UJ	8.0	0.25 U
Benzo(b)fluoranthene	MG/KG	1.0 U	NA	0.21 UJ	9.3 J	0.25 U
Benzo(g,h,i)perylene	MG/KG	1.0 U	NA	0.21 UJ	4.1 J	0.25 U
Benzo(k)fluoranthene	MG/KG	1.0 U	NA	0.21 UJ	3.5 J	0.25 U
bis(2-Chloroethoxy)methane	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
bis(2-Chloroethyl)ether	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
bis(2-Ethylhexyl)phthalate	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Butylbenzylphthalate	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Caprolactam	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Carbazole	MG/KG	1.0 U	NA	0.21 UJ	0.62 J	0.25 U
Chrysene	MG/KG	1.0 U	NA	0.21 UJ	6.2 J	0.25 U
Dibenz(a,h)anthracene	MG/KG	1.0 U	NA	0.21 UJ	1.8 J	0.25 U
Dibenzofuran	MG/KG	1.0 U	NA	0.21 UJ	0.26 J	0.25 U
Diethylphthalate	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Dimethylphthalate	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Di-n-butylphthalate	MG/KG	1.0 U	NA	0.21 U	0.037 J	0.25 U
Di-n-octylphthalate	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Fluoranthene	MG/KG	1.0 U	NA	0.21 UJ	15 J	0.25 U
Fluorene	MG/KG	1.0 U	NA	0.21 UJ	0.60 J	0.25 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-02	TP-03	TP-03	TP-03	TP-04
Sample ID		TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5	4.0-4.3
Date Sampled		12/08/20	12/08/20	12/08/20	12/08/20	12/09/20
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Hexachlorobutadiene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Hexachlorocyclopentadiene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Hexachloroethane	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Indeno(1,2,3-cd)pyrene	MG/KG	1.0 U	NA	0.21 UJ	4.1 J	0.25 U
Isophorone	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Naphthalene	MG/KG	1.0 U	NA	0.21 U	0.11 J	0.25 U
Nitrobenzene	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
N-Nitroso-di-n-propylamine	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
N-Nitrosodiphenylamine	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Pentachlorophenol	MG/KG	2.0 U	NA	0.41 U	0.40 U	0.48 U
Phenanthrene	MG/KG	1.0 U	NA	0.21 UJ	6.0 J	0.25 U
Phenol	MG/KG	1.0 U	NA	0.21 U	0.21 U	0.25 U
Pyrene	MG/KG	1.0 U	NA	0.21 UJ	13 J	0.25 U
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Aroclor 1221	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Aroclor 1232	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Aroclor 1242	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Aroclor 1248	MG/KG	100	650	1.2 J	0.27 J	0.34 U
Aroclor 1254	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Aroclor 1260	MG/KG	5.4 U	60 U	0.32 J	0.23 U	0.34 U
Aroclor 1262	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Aroclor 1268	MG/KG	5.4 U	60 U	0.28 U	0.23 U	0.34 U
Total PCBs	MG/KG	100	650	1.52	0.27	0.34 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-02	TP-03	TP-03	TP-03	TP-04
Sample ID		TP-2020-02-3.3-3.5	TP-2020-03-1.3-1.5	FD-20201208-1	TP-2020-03-3.3-3.5	TP-2020-04-4.0-4.3
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		3.3-3.5	1.3-1.5	3.3-3.5	3.3-3.5	4.0-4.3
Date Sampled		12/08/20	12/08/20	12/08/20	12/08/20	12/09/20
Parameter	Units			Field Duplicate (1-1)		
Metals						
Aluminum	MG/KG	19,900 J	NA	20,800 J	4,130 J	30,000
Antimony	MG/KG	18.4 U	NA	20.2 U	19.0 U	21.5 U
Arsenic	MG/KG	2.9	NA	3.9 J	2.0 J	4.9
Barium	MG/KG	118 J	NA	84.9 J	18.3 J	185
Beryllium	MG/KG	0.86	NA	0.88 J	0.20 J	1.4
Cadmium	MG/KG	0.064 J	NA	0.064 J	0.19 J	0.29 U
Calcium	MG/KG	45,300 J	NA	57,900 J	61,200 J	12,000
Chromium	MG/KG	24.2 J	NA	26.1 J	5.3 J	33.9
Cobalt	MG/KG	11.9	NA	10.9 J	2.9 J	15.9
Copper	MG/KG	16.9 J	NA	17.7 J	10.8 J	17.2
Iron	MG/KG	22,400 J	NA	24,600 J	7,450 J	31,600
Lead	MG/KG	11.0 J	NA	10.8	9.0	14.9
Magnesium	MG/KG	17,400 J	NA	15,800 J	25,500 J	9,170
Manganese	MG/KG	506 J	NA	504 J	263 J	454
Mercury	MG/KG	0.012 J	NA	0.011 J	0.024 U	0.016 J
Nickel	MG/KG	26.3 J	NA	28.3 J	6.7 J	37.3
Potassium	MG/KG	5,740 J	NA	6,390 J	1,120 J	5,560
Selenium	MG/KG	1.8 J	NA	2.0 J	5.1 U	2.5 J
Silver	MG/KG	0.33 J	NA	0.28 J	0.76 U	0.45 J
Sodium	MG/KG	241	NA	236	143 J	143 J
Thallium	MG/KG	7.3 U	NA	8.1 U	7.6 U	8.6 U
Vanadium	MG/KG	35.7 J	NA	39.5 J	9.7 J	52.4
Zinc	MG/KG	56.7 J	NA	60.3	52.0	80.3

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-05	TP-06A	TP-06D	TP-07	TP-08
Sample ID		TP-2020-05-2.4-3.0	TP-2020-06A-0.4-0.5	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.4-3.0	0.4-0.5	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled		12/09/20	12/08/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,1,2,2-Tetrachloroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,1,2-Trichloroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,1-Dichloroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,1-Dichloroethene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2,4-Trichlorobenzene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dibromo-3-chloropropane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dichlorobenzene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dichloroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dichloroethene (cis)	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dichloroethene (trans)	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,2-Dichloropropane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,3-Dichlorobenzene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,3-Dichloropropene (cis)	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,3-Dichloropropene (trans)	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
1,4-Dichlorobenzene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
2-Hexanone	MG/KG	0.032 U	0.029 U	0.032 U	0.028 U	0.027 U
4-Methyl-2-pentanone	MG/KG	0.032 U	0.029 U	0.032 U	0.028 U	0.027 U
Acetone	MG/KG	0.023 J	0.0097 J	0.035	0.0075 J	0.0071 J
Benzene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Bromodichloromethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Bromoform	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Bromomethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-05	TP-06A	TP-06D	TP-07	TP-08
Sample ID		TP-2020-05-2.4-3.0	TP-2020-06A-0.4-0.5	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.4-3.0	0.4-0.5	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled		12/09/20	12/08/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**					
Volatile Organic Compounds						
Carbon disulfide	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Carbon tetrachloride	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Chlorobenzene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Chloroethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Chloroform	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Chloromethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Cyclohexane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Dibromochloromethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Dichlorodifluoromethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Ethylbenzene	MG/KG	0.0064 U	0.00043 J	0.0063 U	0.0057 U	0.0054 U
Isopropylbenzene (Cumene)	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Methyl acetate	MG/KG	0.032 U	0.029 U	0.032 U	0.028 U	0.027 U
Methyl ethyl ketone (2-Butanone)	MG/KG	0.0031 J	0.029 U	0.0066 J	0.028 U	0.027 U
Methyl tert-butyl ether	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Methylcyclohexane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Methylene chloride	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0026 J	0.0054 U
Styrene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Tetrachloroethene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Toluene	MG/KG	0.00053 J	0.00077 J	0.00080 J	0.0057 U	0.0013 J
Trichloroethene	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Trichlorofluoromethane	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Vinyl chloride	MG/KG	0.0064 U	0.0058 U	0.0063 U	0.0057 U	0.0054 U
Xylene (total)	MG/KG	0.013 U	0.0016 J	0.013 U	0.011 U	0.011 U
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	0.22 U	2.0 U	2.1 U	0.28	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-05	TP-06A	TP-06D	TP-07	TP-08
Sample ID		TP-2020-05-2.4-3.0	TP-2020-06A-0.4-0.5	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.4-3.0	0.4-0.5	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled		12/09/20	12/08/20	12/09/20	12/09/20	12/07/20
Parameter	Units					
Semivolatile Organic Compounds						
2,2-oxybis(1-Chloropropane)	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2,4,5-Trichlorophenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2,4,6-Trichlorophenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2,4-Dichlorophenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2,4-Dimethylphenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2,4-Dinitrophenol	MG/KG	2.1 U	19 U	21 U	1.9 U	18 U
2,4-Dinitrotoluene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2,6-Dinitrotoluene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2-Chloronaphthalene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2-Chlorophenol	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
2-Methylnaphthalene	MG/KG	0.22 U	2.0 U	0.70 J	0.19 U	1.9 U
2-Methylphenol (o-cresol)	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
2-Nitroaniline	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
2-Nitrophenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
3,3-Dichlorobenzidine	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
3-Nitroaniline	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
4,6-Dinitro-2-methylphenol	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
4-Bromophenyl-phenylether	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
4-Chloro-3-methylphenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
4-Chloroaniline	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
4-Chlorophenyl-phenylether	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
4-Methylphenol (p-cresol)	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
4-Nitroaniline	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
4-Nitrophenol	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
Acenaphthene	MG/KG	0.22 U	2.0 U	2.9	0.19 U	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-05	TP-06A	TP-06D	TP-07	TP-08
Sample ID		TP-2020-05-2.4-3.0	TP-2020-06A-0.4-0.5	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.4-3.0	0.4-0.5	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled		12/09/20	12/08/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Acenaphthylene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Acetophenone	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Anthracene	MG/KG	0.22 U	2.0 U	5.6	0.074 J	1.9 U
Atrazine	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Benzaldehyde	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Benzo(a)anthracene	MG/KG	0.22 U	2.0 U	13	0.15 J	1.9 U
Benzo(a)pyrene	MG/KG	0.22 U	2.0 U	11	0.11 J	1.9 U
Benzo(b)fluoranthene	MG/KG	0.22 U	2.0 U	14	0.22	1.9 U
Benzo(g,h,i)perylene	MG/KG	0.22 U	2.0 U	4.9	0.052 J	1.9 U
Benzo(k)fluoranthene	MG/KG	0.22 U	2.0 U	6.8	0.19 U	1.9 U
bis(2-Chloroethoxy)methane	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
bis(2-Chloroethyl)ether	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
bis(2-Ethylhexyl)phthalate	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Butylbenzylphthalate	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Caprolactam	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Carbazole	MG/KG	0.22 U	2.0 U	2.7	0.19 U	1.9 U
Chrysene	MG/KG	0.22 U	2.0 U	13	0.14 J	1.9 U
Dibenz(a,h)anthracene	MG/KG	0.22 U	2.0 U	1.7 J	0.19 U	1.9 U
Dibenzofuran	MG/KG	0.22 U	2.0 U	1.8 J	0.19 U	1.9 U
Diethylphthalate	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Dimethylphthalate	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Di-n-butylphthalate	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Di-n-octylphthalate	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Fluoranthene	MG/KG	0.024 J	2.0 U	29	0.54	0.33 J
Fluorene	MG/KG	0.22 U	2.0 U	2.7	0.14 J	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-05	TP-06A	TP-06D	TP-07	TP-08
Sample ID		TP-2020-05-2.4-3.0	TP-2020-06A-0.4-0.5	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.4-3.0	0.4-0.5	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled		12/09/20	12/08/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Hexachlorobutadiene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Hexachlorocyclopentadiene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Hexachloroethane	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Indeno(1,2,3-cd)pyrene	MG/KG	0.22 U	2.0 U	4.5	0.063 J	1.9 U
Isophorone	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Naphthalene	MG/KG	0.22 U	2.0 U	1.0 J	0.19 U	1.9 U
Nitrobenzene	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
N-Nitroso-di-n-propylamine	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
N-Nitrosodiphenylamine	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Pentachlorophenol	MG/KG	0.42 U	3.9 U	4.1 U	0.38 U	3.6 U
Phenanthrene	MG/KG	0.22 U	2.0 U	25	0.26	1.9 U
Phenol	MG/KG	0.22 U	2.0 U	2.1 U	0.19 U	1.9 U
Pyrene	MG/KG	0.22 U	2.0 U	21	0.46	0.40 J
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Aroclor 1221	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Aroclor 1232	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Aroclor 1242	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Aroclor 1248	MG/KG	5.1	7,900	8.0	0.20 U	57
Aroclor 1254	MG/KG	0.28 U	230 U	1.4 U	0.19 J	4.5 U
Aroclor 1260	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Aroclor 1262	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Aroclor 1268	MG/KG	0.28 U	230 U	1.4 U	0.20 U	4.5 U
Total PCBs	MG/KG	5.1	7,900	8	0.19	57

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-05	TP-06A	TP-06D	TP-07	TP-08
Sample ID		TP-2020-05-2.4-3.0	TP-2020-06A-0.4-0.5	TP-2020-06D-4.7-4.8	TP-2020-07-2.8-3.3	TP-2020-08-1.35-1.50
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.4-3.0	0.4-0.5	4.7-4.8	2.8-3.3	1.4-1.5
Date Sampled		12/09/20	12/08/20	12/09/20	12/09/20	12/07/20
Parameter	**Units**					
Metals						
Aluminum	MG/KG	24,600	41,000	12,800	9,080	2,530
Antimony	MG/KG	19.4 U	18.4 U	37.9 U	17.3 U	177 U
Arsenic	MG/KG	3.7	22.6	3.2 J	4.0	23.6 U
Barium	MG/KG	150	39.8	86.8	40.3	22.1
Beryllium	MG/KG	1.0	0.77	0.56	0.38	0.11 J
Cadmium	MG/KG	0.087 J	0.50	1.3 U	0.20 J	11.8 U
Calcium	MG/KG	31,300	75,200	24,900	79,700	10,800
Chromium	MG/KG	28.3	84.9	289	11.5	723
Cobalt	MG/KG	12.0	7.3	19.8	5.8	56.8
Copper	MG/KG	17.3	21.3	148	12.3	243
Iron	MG/KG	26,500	17,000	113,000	12,900	436,000
Lead	MG/KG	14.3	50.2	33.6	13.1	93.0
Magnesium	MG/KG	13,600	5,640	8,030	24,200	2,100
Manganese	MG/KG	419	310	1,050	518	3,590
Mercury	MG/KG	0.021	0.021 U	0.026	0.021	0.011 J
Nickel	MG/KG	29.3	36.5	729	13.0	131
Potassium	MG/KG	5,420	1,930	2,740	2,600	622
Selenium	MG/KG	2.2 J	1.2 J	11.8	0.69 J	46.5 J
Silver	MG/KG	0.35 J	0.29 J	1.2 J	0.69 U	4.8 J
Sodium	MG/KG	218	2,220	245	192	88.1 J
Thallium	MG/KG	7.8 U	7.3 U	7.6 U	6.9 U	70.7 U
Vanadium	MG/KG	44.5	63.3	31.4	18.9	32.6
Zinc	MG/KG	59.7	31.3	103	63.8	19.5

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-08	TP-09
Sample ID		TP-2020-08-2.3-2.5	TP-2020-09-0.0-0.2
Matrix		Soil	Soil
Depth Interval (ft)		2.3-2.5	0.0-0.2
Date Sampled		12/07/20	12/10/20
Parameter	**Units**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	MG/KG	NA	0.0053 U
1,1,2,2-Tetrachloroethane	MG/KG	NA	0.0053 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	NA	0.0053 U
1,1,2-Trichloroethane	MG/KG	NA	0.0053 U
1,1-Dichloroethane	MG/KG	NA	0.0053 U
1,1-Dichloroethene	MG/KG	NA	0.0053 U
1,2,4-Trichlorobenzene	MG/KG	NA	0.0053 U
1,2-Dibromo-3-chloropropane	MG/KG	NA	0.0053 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	NA	0.0053 U
1,2-Dichlorobenzene	MG/KG	NA	0.0053 U
1,2-Dichloroethane	MG/KG	NA	0.0053 U
1,2-Dichloroethene (cis)	MG/KG	NA	0.0053 U
1,2-Dichloroethene (trans)	MG/KG	NA	0.0053 U
1,2-Dichloropropane	MG/KG	NA	0.0053 U
1,3-Dichlorobenzene	MG/KG	NA	0.0053 U
1,3-Dichloropropene (cis)	MG/KG	NA	0.0053 U
1,3-Dichloropropene (trans)	MG/KG	NA	0.0053 U
1,4-Dichlorobenzene	MG/KG	NA	0.0053 U
2-Hexanone	MG/KG	NA	0.027 U
4-Methyl-2-pentanone	MG/KG	NA	0.027 U
Acetone	MG/KG	NA	0.027 U
Benzene	MG/KG	NA	0.0053 U
Bromodichloromethane	MG/KG	NA	0.0053 U
Bromoform	MG/KG	NA	0.0053 U
Bromomethane	MG/KG	NA	0.0053 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-08	TP-09
Sample ID		TP-2020-08-2.3-2.5	TP-2020-09-0.0-0.2
Matrix		Soil	Soil
Depth Interval (ft)		2.3-2.5	0.0-0.2
Date Sampled		12/07/20	12/10/20
Parameter	**Units**		
Volatile Organic Compounds			
Carbon disulfide	MG/KG	NA	0.0053 U
Carbon tetrachloride	MG/KG	NA	0.0053 U
Chlorobenzene	MG/KG	NA	0.0053 U
Chloroethane	MG/KG	NA	0.0053 U
Chloroform	MG/KG	NA	0.0053 U
Chloromethane	MG/KG	NA	0.0053 U
Cyclohexane	MG/KG	NA	0.0053 U
Dibromochloromethane	MG/KG	NA	0.0053 U
Dichlorodifluoromethane	MG/KG	NA	0.0053 U
Ethylbenzene	MG/KG	NA	0.0053 U
Isopropylbenzene (Cumene)	MG/KG	NA	0.0053 U
Methyl acetate	MG/KG	NA	0.027 U
Methyl ethyl ketone (2-Butanone)	MG/KG	NA	0.027 U
Methyl tert-butyl ether	MG/KG	NA	0.0053 U
Methylcyclohexane	MG/KG	NA	0.0053 U
Methylene chloride	MG/KG	NA	0.0053 U
Styrene	MG/KG	NA	0.0053 U
Tetrachloroethene	MG/KG	NA	0.0053 U
Toluene	MG/KG	NA	0.0045 J
Trichloroethene	MG/KG	NA	0.0053 U
Trichlorofluoromethane	MG/KG	NA	0.0053 U
Vinyl chloride	MG/KG	NA	0.0053 U
Xylene (total)	MG/KG	NA	0.011 U
Semivolatile Organic Compounds			
1,1-Biphenyl	MG/KG	NA	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-08	TP-09
Sample ID		TP-2020-08-2.3-2.5	TP-2020-09-0.0-0.2
Matrix		Soil	Soil
Depth Interval (ft)		2.3-2.5	0.0-0.2
Date Sampled		12/07/20	12/10/20
Parameter	**Units**		
Semivolatile Organic Compounds			
2,2-oxybis(1-Chloropropane)	MG/KG	NA	1.9 U
2,4,5-Trichlorophenol	MG/KG	NA	1.9 U
2,4,6-Trichlorophenol	MG/KG	NA	1.9 U
2,4-Dichlorophenol	MG/KG	NA	1.9 U
2,4-Dimethylphenol	MG/KG	NA	1.9 U
2,4-Dinitrophenol	MG/KG	NA	18 U
2,4-Dinitrotoluene	MG/KG	NA	1.9 U
2,6-Dinitrotoluene	MG/KG	NA	1.9 U
2-Chloronaphthalene	MG/KG	NA	1.9 U
2-Chlorophenol	MG/KG	NA	3.6 U
2-Methylnaphthalene	MG/KG	NA	1.9 U
2-Methylphenol (o-cresol)	MG/KG	NA	1.9 U
2-Nitroaniline	MG/KG	NA	3.6 U
2-Nitrophenol	MG/KG	NA	1.9 U
3,3-Dichlorobenzidine	MG/KG	NA	3.6 U
3-Nitroaniline	MG/KG	NA	3.6 U
4,6-Dinitro-2-methylphenol	MG/KG	NA	3.6 U
4-Bromophenyl-phenylether	MG/KG	NA	1.9 U
4-Chloro-3-methylphenol	MG/KG	NA	1.9 U
4-Chloroaniline	MG/KG	NA	1.9 U
4-Chlorophenyl-phenylether	MG/KG	NA	1.9 U
4-Methylphenol (p-cresol)	MG/KG	NA	3.6 U
4-Nitroaniline	MG/KG	NA	3.6 U
4-Nitrophenol	MG/KG	NA	3.6 U
Acenaphthene	MG/KG	NA	0.35 J

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-08	TP-09
Sample ID		TP-2020-08-2.3-2.5	TP-2020-09-0.0-0.2
Matrix		Soil	Soil
Depth Interval (ft)		2.3-2.5	0.0-0.2
Date Sampled		12/07/20	12/10/20
Parameter	**Units**		
Semivolatile Organic Compounds			
Acenaphthylene	MG/KG	NA	1.9 U
Acetophenone	MG/KG	NA	1.9 U
Anthracene	MG/KG	NA	0.57 J
Atrazine	MG/KG	NA	1.9 U
Benzaldehyde	MG/KG	NA	1.9 U
Benzo(a)anthracene	MG/KG	NA	1.9
Benzo(a)pyrene	MG/KG	NA	1.9
Benzo(b)fluoranthene	MG/KG	NA	2.7
Benzo(g,h,i)perylene	MG/KG	NA	1.0 J
Benzo(k)fluoranthene	MG/KG	NA	1.2 J
bis(2-Chloroethoxy)methane	MG/KG	NA	1.9 U
bis(2-Chloroethyl)ether	MG/KG	NA	1.9 U
bis(2-Ethylhexyl)phthalate	MG/KG	NA	1.9 U
Butylbenzylphthalate	MG/KG	NA	1.9 U
Caprolactam	MG/KG	NA	1.9 U
Carbazole	MG/KG	NA	0.48 J
Chrysene	MG/KG	NA	2.2
Dibenz(a,h)anthracene	MG/KG	NA	1.9 U
Dibenzofuran	MG/KG	NA	1.9 U
Diethylphthalate	MG/KG	NA	1.9 U
Dimethylphthalate	MG/KG	NA	1.9 U
Di-n-butylphthalate	MG/KG	NA	1.9 U
Di-n-octylphthalate	MG/KG	NA	1.9 U
Fluoranthene	MG/KG	NA	4.2
Fluorene	MG/KG	NA	0.27 J

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-08	TP-09
Sample ID		TP-2020-08-2.3-2.5	TP-2020-09-0.0-0.2
Matrix		Soil	Soil
Depth Interval (ft)		2.3-2.5	0.0-0.2
Date Sampled		12/07/20	12/10/20
Parameter	**Units**		
Semivolatile Organic Compounds			
Hexachlorobenzene	MG/KG	NA	1.9 U
Hexachlorobutadiene	MG/KG	NA	1.9 U
Hexachlorocyclopentadiene	MG/KG	NA	1.9 U
Hexachloroethane	MG/KG	NA	1.9 U
Indeno(1,2,3-cd)pyrene	MG/KG	NA	0.88 J
Isophorone	MG/KG	NA	1.9 U
Naphthalene	MG/KG	NA	1.9 U
Nitrobenzene	MG/KG	NA	1.9 U
N-Nitroso-di-n-propylamine	MG/KG	NA	1.9 U
N-Nitrosodiphenylamine	MG/KG	NA	1.9 U
Pentachlorophenol	MG/KG	NA	3.6 U
Phenanthrene	MG/KG	NA	2.9
Phenol	MG/KG	NA	1.9 U
Pyrene	MG/KG	NA	3.0
Polychlorinated Biphenyls			
Aroclor 1016	MG/KG	6.4 U	0.20 U
Aroclor 1221	MG/KG	6.4 U	0.20 U
Aroclor 1232	MG/KG	6.4 U	0.20 U
Aroclor 1242	MG/KG	6.4 U	0.20 U
Aroclor 1248	MG/KG	80	0.20 U
Aroclor 1254	MG/KG	6.4 U	0.20 U
Aroclor 1260	MG/KG	6.4 U	0.20 U
Aroclor 1262	MG/KG	6.4 U	0.20 U
Aroclor 1268	MG/KG	6.4 U	0.20 U
Total PCBs	MG/KG	80	0.20 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 1
VALIDATED SOIL SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		TP-08	TP-09
Sample ID		TP-2020-08-2.3-2.5	TP-2020-09-0.0-0.2
Matrix		Soil	Soil
Depth Interval (ft)		2.3-2.5	0.0-0.2
Date Sampled		12/07/20	12/10/20
Parameter	**Units**		
Metals			
Aluminum	MG/KG	NA	4,070
Antimony	MG/KG	NA	32.1 U
Arsenic	MG/KG	NA	4.9
Barium	MG/KG	NA	61.3
Beryllium	MG/KG	NA	0.29
Cadmium	MG/KG	NA	1.1
Calcium	MG/KG	NA	121,000
Chromium	MG/KG	NA	136
Cobalt	MG/KG	NA	12.3
Copper	MG/KG	NA	199
Iron	MG/KG	NA	69,400
Lead	MG/KG	NA	115
Magnesium	MG/KG	NA	53,900
Manganese	MG/KG	NA	1,040
Mercury	MG/KG	NA	0.037
Nickel	MG/KG	NA	211
Potassium	MG/KG	NA	1,090
Selenium	MG/KG	NA	6.5 J
Silver	MG/KG	NA	0.97 J
Sodium	MG/KG	NA	200
Thallium	MG/KG	NA	6.4 U
Vanadium	MG/KG	NA	17.7
Zinc	MG/KG	NA	492

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
2-Chloroethyl vinyl ether	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Acrolein	UG/L	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ
Acrylonitrile	UG/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Benzene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	Units					
Volatile Organic Compounds						
Methylene chloride	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/L	50 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	UG/L	50 U	10 U	10 U	10 U	10 U
1,2-Diphenylhydrazine	UG/L	50 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	UG/L	50 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	UG/L	50 U	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	UG/L	50 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	UG/L	50 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3-Dichlorobenzidine	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	**Units**					
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitrophenol	UG/L	75 U	15 U	15 U	15 U	15 U
Acenaphthene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzidine	UG/L	400 U	80 U	80 U	80 U	80 U
Benzo(a)anthracene	UG/L	15 J	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	18 J	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	27	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	UG/L	11 J	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	11 J	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	UG/L	50 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	UG/L	21 J	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	35	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	**Units**					
Semivolatile Organic Compounds						
Hexachlorobenzene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	UG/L	50 U	10 U	10 U	10 U	10 U
Hexachloroethane	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	9.4 J	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodimethylamine	UG/L	50 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	UG/L	50 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	23 J	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	UG/L	25	5.0 U	5.0 U	5.0 U	5.0 U
Pesticide Organic Compounds						
4,4'-DDD	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
4,4'-DDE	UG/L	0.013 J	0.050 U	0.052 U	0.051 U	0.052 U
4,4'-DDT	UG/L	0.052 U	0.050 U	0.018 J	0.051 U	0.052 U
Aldrin	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
alpha-BHC	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
beta-BHC	UG/L	0.052 U	0.050 U	0.033 J	0.051 U	0.052 U
delta-BHC	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Dieldrin	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Endosulfan I	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	**Units**					
Pesticide Organic Compounds						
Endosulfan II	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Endosulfan sulfate	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Endrin	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Endrin aldehyde	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
gamma-BHC (Lindane)	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Heptachlor	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Heptachlor epoxide	UG/L	0.052 U	0.050 U	0.052 U	0.051 U	0.052 U
Technical Chlordane	UG/L	0.52 U	0.50 U	0.52 U	0.51 U	0.52 U
Toxaphene	UG/L	0.52 U	0.50 U	0.52 U	0.51 U	0.52 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U
Aroclor 1221	UG/L	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U
Aroclor 1232	UG/L	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U
Aroclor 1242	UG/L	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U
Aroclor 1248	UG/L	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U
Aroclor 1254	UG/L	15 J	0.060 U	0.060 U	0.066 J	0.056 J
Aroclor 1260	UG/L	0.60 U	0.060 U	0.060 U	0.060 U	0.060 U
Total PCBs	UG/L	15	0.060 U	0.060 U	0.066	0.056
Metals						
Antimony	UG/L	2.6	1.0 U	1.0 U	1.6	1.0 U
Arsenic	UG/L	1.6	0.64 J	0.81 J	0.75 J	0.94 J
Beryllium	UG/L	0.090 J	0.70 U	0.034 J	0.70 U	0.046 J
Cadmium	UG/L	1.5	0.50 U	0.19 J	0.14 J	0.42 J
Chromium	UG/L	11.9	1.6	3.5	3.2	7.2
Copper	UG/L	61.4	3.5	6.8	6.0	11.7

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Sample ID		SW-2020-1	SW-2020-2	SW-2020-3	SW-2020-4	SW-2020-5
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/20	12/11/20	12/11/20	12/11/20	12/11/20
Parameter	**Units**					
Metals						
Lead	UG/L	68.3	0.61 J	5.4	1.9	7.3
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	15.3	1.5	2.9	2.2	5.7
Selenium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver	UG/L	0.20 J	0.50 U	0.50 U	0.50 U	0.50 U
Thallium	UG/L	0.044 J	0.20 U	0.023 J	0.20 U	0.20 U
Zinc	UG/L	218	14.0	88.3	53.4	110
Dissolved Metals						
Antimony	UG/L	1.3	0.41 J	1.0 U	1.0 U	1.0 U
Arsenic	UG/L	0.61 J	0.39 J	0.36 J	0.37 J	0.35 J
Beryllium	UG/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U
Cadmium	UG/L	0.076 J	0.50 U	0.50 U	0.50 U	0.50 U
Chromium	UG/L	0.68 J	1.5 U	0.42 J	1.5 U	1.5 U
Copper	UG/L	14.2	2.5	2.4	2.4	3.2
Lead	UG/L	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	1.7	1.3	1.1	1.2	1.2
Selenium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Thallium	UG/L	0.025 J	0.20 U	0.20 U	0.20 U	0.20 U
Zinc	UG/L	12.3	11.8	22.2	19.0	18.2
Miscellaneous Parameters						
Cyanide	MG/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 3
VALIDATED BRICK/CONCRETE/WOOD SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		BC-01-20	BC-05-20	BC-06-20	BC-06-20	BC-11-20
Sample ID		BC-01-20	BC-05-20	BC-06-20	FD-111220-2	BC-11-20
Matrix		Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	Units				Field Duplicate (1-1)	
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1221	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1232	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1242	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1248	MG/KG	5.5	2.2	2.4 U	0.23 U	0.25
Aroclor 1254	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1260	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1262	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Aroclor 1268	MG/KG	0.21 U	0.23 U	2.4 U	0.23 U	0.23 U
Total PCBs	MG/KG	5.5	2.2	2.4 U	0.23 U	0.25

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 3
VALIDATED BRICK/CONCRETE/WOOD SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		BC-12-20	BC-13-20	BC-14-20	BC-15-20	BC-16-20
Sample ID		BC-12-20	BC-13-20	BC-14-20	BC-15-20	BC-16-20
Matrix		Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Aroclor 1221	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Aroclor 1232	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Aroclor 1242	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Aroclor 1248	MG/KG	31	1.2 U	0.24 U	200	1.1
Aroclor 1254	MG/KG	2.4 U	12	2.3 J	12 U	0.23 U
Aroclor 1260	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Aroclor 1262	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Aroclor 1268	MG/KG	2.4 U	1.2 U	0.24 U	12 U	0.23 U
Total PCBs	MG/KG	31	12	2.3	200	1.1

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 3
VALIDATED BRICK/CONCRETE/WOOD SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		BC-17-20	BC-18-20	BC-23-20	BC-24-20	BC-25-20
Sample ID		BC-17-20	BC-18-20	BC-23-20	BC-24-20	BC-25-20
Matrix		Brick	Brick	Brick	Brick	Brick
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1221	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1232	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1242	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1248	MG/KG	4.4	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1254	MG/KG	0.23 U	3.2	0.21	2.2 U	1.9 U
Aroclor 1260	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1262	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Aroclor 1268	MG/KG	0.23 U	2.3 U	0.21 U	2.2 U	1.9 U
Total PCBs	MG/KG	4.4	3.2	0.21	2.2 U	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 3
VALIDATED BRICK/CONCRETE/WOOD SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		CC-02-20	CC-03-20	CC-04-20	CC-04-20	CC-07-20
Sample ID		CC-02-20	CC-03-20	CC-04-20	FD-111220-1	CC-07-20
Matrix		Concrete	Concrete	Concrete	Concrete	Concrete
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	Units				Field Duplicate (1-1)	
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1221	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1232	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1242	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1248	MG/KG	0.23 U	0.23 U	2.3 U	0.68 J	14
Aroclor 1254	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1260	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1262	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Aroclor 1268	MG/KG	0.23 U	0.23 U	2.3 U	2.4 U	4.8 U
Total PCBs	MG/KG	0.23 U	0.23 U	2.3 U	0.68	14

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 3
VALIDATED BRICK/CONCRETE/WOOD SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		CC-08-20	CC-09-20	CC-10-20	CC-20-20	CC-22-20
Sample ID		CC-08-20	CC-09-20	CC-10-20	CC-20-20	CC-22-20
Matrix		Concrete	Concrete	Concrete	Concrete	Concrete
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/12/20	11/12/20	11/12/20	11/12/20	11/12/20
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	23 U	0.23 U	0.23 U	0.21 U	0.20 U
Aroclor 1221	MG/KG	23 U	0.23 U	0.23 U	0.21 U	0.20 U
Aroclor 1232	MG/KG	23 U	0.23 U	0.23 U	0.21 U	0.20 U
Aroclor 1242	MG/KG	630	0.23 U	0.23 U	0.21 U	0.20 U
Aroclor 1248	MG/KG	23 U	0.51	0.23 U	0.21 U	0.20 U
Aroclor 1254	MG/KG	140	0.23 U	0.23 U	1.4	0.20 U
Aroclor 1260	MG/KG	23 U	0.23 U	0.23 U	0.21 U	0.20 U
Aroclor 1262	MG/KG	23 U	0.23 U	0.23 U	0.21 U	0.20 U
Aroclor 1268	MG/KG	23 U	0.23 U	0.23 U	0.21 U	0.20 U
Total PCBs	MG/KG	770	0.51	0.23 U	1.4	0.20 U

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

TABLE 3
VALIDATED BRICK/CONCRETE/WOOD SAMPLE RESULTS
TONAWANDA FORGE SITE

Location ID		WC-19-20	WC-21-20
Sample ID		WC-19-20	WC-21-20
Matrix		Wood	Wood
Depth Interval (ft)		-	-
Date Sampled		11/12/20	11/12/20
Parameter	**Units**		
Polychlorinated Biphenyls			
Aroclor 1016	MG/KG	4.9 U	2.4 U
Aroclor 1221	MG/KG	4.9 U	2.4 U
Aroclor 1232	MG/KG	4.9 U	2.4 U
Aroclor 1242	MG/KG	4.9 U	2.4 U
Aroclor 1248	MG/KG	4.9 U	39 NJ
Aroclor 1254	MG/KG	21	20 NJ
Aroclor 1260	MG/KG	4.9 U	2.4 U
Aroclor 1262	MG/KG	4.9 U	2.4 U
Aroclor 1268	MG/KG	4.9 U	2.4 U
Total PCBs	MG/KG	21	59

Flags assigned during chemistry validation are shown.

Made By: AMK 2/25/21 Checked By: PRF 3/12/21

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM I'S

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-54-20-0.5-1 | Lab Sample ID: 480-177557-1

Matrix: Solid | Lab File ID: X21470913.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:10

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.14(g) | Date Analyzed: 11/09/2020 14:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		180	48
88-06-2	2,4,6-Trichlorophenol	ND		180	35
120-83-2	2,4-Dichlorophenol	ND		180	19
105-67-9	2,4-Dimethylphenol	ND		180	42
51-28-5	2,4-Dinitrophenol	ND		1700	810
121-14-2	2,4-Dinitrotoluene	ND		180	36
606-20-2	2,6-Dinitrotoluene	ND		180	21
91-58-7	2-Chloronaphthalene	ND		180	29
95-57-8	2-Chlorophenol	ND		340	32
91-57-6	2-Methylnaphthalene	ND		180	35
95-48-7	2-Methylphenol	ND		180	21
88-74-4	2-Nitroaniline	ND		340	26
88-75-5	2-Nitrophenol	ND		180	50
91-94-1	3,3'-Dichlorobenzidine	ND		340	210
99-09-2	3-Nitroaniline	ND		340	49
534-52-1	4,6-Dinitro-2-methylphenol	ND		340	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	25
59-50-7	4-Chloro-3-methylphenol	ND		180	43
106-47-8	4-Chloroaniline	ND		180	43
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	22
106-44-5	4-Methylphenol	ND		340	21
100-01-6	4-Nitroaniline	ND		340	92
100-02-7	4-Nitrophenol	ND		340	120
83-32-9	Acenaphthene	ND		180	26
208-96-8	Acenaphthylene	ND		180	23
98-86-2	Acetophenone	ND		180	24
120-12-7	Anthracene	ND		180	43
1912-24-9	Atrazine	ND		180	61
100-52-7	Benzaldehyde	ND		180	140
56-55-3	Benzo(a)anthracene	ND		180	18
50-32-8	Benzo(a)pyrene	43	J	180	26
205-99-2	Benzo(b)fluoranthene	55	J	180	28
191-24-2	Benzo(g,h,i)perylene	43	J	180	19
207-08-9	Benzo(k)fluoranthene	ND		180	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-54-20-0.5-1 | Lab Sample ID: 480-177557-1

Matrix: Solid | Lab File ID: X21470913.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:10

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.14(g) | Date Analyzed: 11/09/2020 14:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	26
108-60-1	bis (2-chloroisopropyl) ether	ND		180	35
111-91-1	Bis(2-chloroethoxy)methane	ND		180	37
111-44-4	Bis(2-chloroethyl)ether	ND		180	23
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	60
85-68-7	Butyl benzyl phthalate	ND		180	29
105-60-2	Caprolactam	ND		180	53
86-74-8	Carbazole	ND		180	21
218-01-9	Chrysene	ND		180	39
53-70-3	Dibenz(a,h)anthracene	ND		180	31
132-64-9	Dibenzofuran	ND		180	21
84-66-2	Diethyl phthalate	ND		180	23
131-11-3	Dimethyl phthalate	ND		180	21
84-74-2	Di-n-butyl phthalate	ND		180	30
117-84-0	Di-n-octyl phthalate	ND		180	21
206-44-0	Fluoranthene	44	J	180	19
86-73-7	Fluorene	ND		180	21
118-74-1	Hexachlorobenzene	ND		180	24
87-68-3	Hexachlorobutadiene	ND		180	26
77-47-4	Hexachlorocyclopentadiene	ND		180	24
67-72-1	Hexachloroethane	ND		180	23
193-39-5	Indeno(1,2,3-cd)pyrene	34	J	180	22
78-59-1	Isophorone	ND		180	37
91-20-3	Naphthalene	ND		180	23
98-95-3	Nitrobenzene	ND		180	20
621-64-7	N-Nitrosodi-n-propylamine	ND		180	30
86-30-6	N-Nitrosodiphenylamine	ND		180	140
87-86-5	Pentachlorophenol	ND		340	180
85-01-8	Phenanthrene	ND		180	26
108-95-2	Phenol	ND		180	27
129-00-0	Pyrene	41	J	180	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-54-20-0.5-1 Lab Sample ID: 480-177557-1

Matrix: Solid Lab File ID: X21470913.D

Analysis Method: 8270D Date Collected: 11/03/2020 11:10

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.14(g) Date Analyzed: 11/09/2020 14:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 3.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-31-20-0-1 | Lab Sample ID: 480-177558-2

Matrix: Solid | Lab File ID: X21470915.D

Analysis Method: 8270D | Date Collected: 11/03/2020 09:40

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.30(g) | Date Analyzed: 11/09/2020 15:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		900	240
88-06-2	2,4,6-Trichlorophenol	ND		900	180
120-83-2	2,4-Dichlorophenol	ND		900	95
105-67-9	2,4-Dimethylphenol	ND		900	220
51-28-5	2,4-Dinitrophenol	ND		8800	4100
121-14-2	2,4-Dinitrotoluene	ND		900	180
606-20-2	2,6-Dinitrotoluene	ND		900	110
91-58-7	2-Chloronaphthalene	ND		900	150
95-57-8	2-Chlorophenol	ND		1700	160
91-57-6	2-Methylnaphthalene	ND		900	180
95-48-7	2-Methylphenol	ND		900	110
88-74-4	2-Nitroaniline	ND		1700	130
88-75-5	2-Nitrophenol	ND		900	250
91-94-1	3,3'-Dichlorobenzidine	ND		1700	1100
99-09-2	3-Nitroaniline	ND		1700	250
534-52-1	4,6-Dinitro-2-methylphenol	ND		1700	900
101-55-3	4-Bromophenyl phenyl ether	ND		900	130
59-50-7	4-Chloro-3-methylphenol	ND		900	220
106-47-8	4-Chloroaniline	ND		900	220
7005-72-3	4-Chlorophenyl phenyl ether	ND		900	110
106-44-5	4-Methylphenol	ND		1700	110
100-01-6	4-Nitroaniline	ND		1700	470
100-02-7	4-Nitrophenol	ND		1700	630
83-32-9	Acenaphthene	160	J	900	130
208-96-8	Acenaphthylene	1000		900	120
98-86-2	Acetophenone	ND		900	120
120-12-7	Anthracene	830	J	900	220
1912-24-9	Atrazine	ND		900	310
100-52-7	Benzaldehyde	ND		900	710
56-55-3	Benzo(a)anthracene	5500		900	90
50-32-8	Benzo(a)pyrene	6600		900	130
205-99-2	Benzo(b)fluoranthene	9300		900	140
191-24-2	Benzo(g,h,i)perylene	4900		900	95
207-08-9	Benzo(k)fluoranthene	4000		900	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-31-20-0-1 | Lab Sample ID: 480-177558-2

Matrix: Solid | Lab File ID: X21470915.D

Analysis Method: 8270D | Date Collected: 11/03/2020 09:40

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.30(g) | Date Analyzed: 11/09/2020 15:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		900	130
108-60-1	bis (2-chloroisopropyl) ether	ND		900	180
111-91-1	Bis(2-chloroethoxy)methane	ND		900	190
111-44-4	Bis(2-chloroethyl)ether	ND		900	120
117-81-7	Bis(2-ethylhexyl) phthalate	ND		900	310
85-68-7	Butyl benzyl phthalate	ND		900	150
105-60-2	Caprolactam	ND		900	270
86-74-8	Carbazole	540	J	900	110
218-01-9	Chrysene	6100		900	200
53-70-3	Dibenz(a,h)anthracene	1200		900	160
132-64-9	Dibenzofuran	ND		900	110
84-66-2	Diethyl phthalate	ND		900	120
131-11-3	Dimethyl phthalate	ND		900	110
84-74-2	Di-n-butyl phthalate	ND		900	150
117-84-0	Di-n-octyl phthalate	ND		900	110
206-44-0	Fluoranthene	9600		900	95
86-73-7	Fluorene	140	J	900	110
118-74-1	Hexachlorobenzene	ND		900	120
87-68-3	Hexachlorobutadiene	ND		900	130
77-47-4	Hexachlorocyclopentadiene	ND		900	120
67-72-1	Hexachloroethane	ND		900	120
193-39-5	Indeno(1,2,3-cd)pyrene	4500		900	110
78-59-1	Isophorone	ND		900	190
91-20-3	Naphthalene	ND		900	120
98-95-3	Nitrobenzene	ND		900	100
621-64-7	N-Nitrosodi-n-propylamine	ND		900	150
86-30-6	N-Nitrosodiphenylamine	ND		900	730
87-86-5	Pentachlorophenol	ND		1700	900
85-01-8	Phenanthrene	2900		900	130
108-95-2	Phenol	ND		900	140
129-00-0	Pyrene	9700		900	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-31-20-0-1 Lab Sample ID: 480-177558-2

Matrix: Solid Lab File ID: X21470915.D

Analysis Method: 8270D Date Collected: 11/03/2020 09:40

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.30(g) Date Analyzed: 11/09/2020 15:42

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 6.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 19 TIC Result Total: 32250

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.86	2000	T J	
	Unknown	11.14	800	T J	
203-12-3	Benzo[ghi]fluoranthene	12.76	840	T J N	87%
	Unknown	13.65	780	T J	
	Unknown	13.72	770	T J	
205-82-3	Benzo[j]fluoranthene	13.85	1300	T J N	94%
629-96-9	1-Eicosanol	13.88	840	T J N	90%
80249-75-8	3,4-Epoxy-4a-ethyl-2,3,4,4a,5,6-hexahydro-1H-pyrido[3,2-C]ca	13.93	950	T J N	96%
192-97-2	Benzo[e]pyrene	13.98	4200	T J N	98%
	Unknown	14.31	7500	T J	
	Unknown	14.77	1800	T J	
	Unknown	14.94	950	T J	
	Unknown	15.11	1700	T J	
1000213-60-7	N-[4-Amino-3-nitrophenyl]-N-nitroso-4-chlorobenzylamine	15.19	1100	T J N	93%
	Unknown	15.51	1100	T J	
189-55-9	3,4:9,10-Dibenzopyrene	16.10	1900	T J N	93%
189-64-0	3,4:8,9-Dibenzopyrene	16.18	1400	T J N	95%
5385-75-1	Dibenz(a,e)aceanthrylene	16.60	920	T J N	90%
	Unknown	16.64	1400	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-30-20-0-1 | Lab Sample ID: 480-177558-4

Matrix: Solid | Lab File ID: X21470916.D

Analysis Method: 8270D | Date Collected: 11/03/2020 09:45

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.19(g) | Date Analyzed: 11/09/2020 16:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		2000	550
88-06-2	2,4,6-Trichlorophenol	ND		2000	410
120-83-2	2,4-Dichlorophenol	ND		2000	220
105-67-9	2,4-Dimethylphenol	ND		2000	490
51-28-5	2,4-Dinitrophenol	ND		20000	9400
121-14-2	2,4-Dinitrotoluene	ND		2000	420
606-20-2	2,6-Dinitrotoluene	ND		2000	240
91-58-7	2-Chloronaphthalene	ND		2000	340
95-57-8	2-Chlorophenol	ND		4000	370
91-57-6	2-Methylnaphthalene	ND		2000	410
95-48-7	2-Methylphenol	ND		2000	240
88-74-4	2-Nitroaniline	ND		4000	300
88-75-5	2-Nitrophenol	ND		2000	580
91-94-1	3,3'-Dichlorobenzidine	ND		4000	2400
99-09-2	3-Nitroaniline	ND		4000	560
534-52-1	4,6-Dinitro-2-methylphenol	ND		4000	2000
101-55-3	4-Bromophenyl phenyl ether	ND		2000	290
59-50-7	4-Chloro-3-methylphenol	ND		2000	500
106-47-8	4-Chloroaniline	ND		2000	500
7005-72-3	4-Chlorophenyl phenyl ether	ND		2000	250
106-44-5	4-Methylphenol	ND		4000	240
100-01-6	4-Nitroaniline	ND		4000	1100
100-02-7	4-Nitrophenol	ND		4000	1400
83-32-9	Acenaphthene	ND		2000	300
208-96-8	Acenaphthylene	440	J	2000	260
98-86-2	Acetophenone	ND		2000	280
120-12-7	Anthracene	910	J	2000	500
1912-24-9	Atrazine	ND		2000	710
100-52-7	Benzaldehyde	ND		2000	1600
56-55-3	Benzo(a)anthracene	4800		2000	200
50-32-8	Benzo(a)pyrene	5700		2000	300
205-99-2	Benzo(b)fluoranthene	7800		2000	320
191-24-2	Benzo(g,h,i)perylene	4700		2000	220
207-08-9	Benzo(k)fluoranthene	3300		2000	260

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-30-20-0-1 | Lab Sample ID: 480-177558-4

Matrix: Solid | Lab File ID: X21470916.D

Analysis Method: 8270D | Date Collected: 11/03/2020 09:45

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.19(g) | Date Analyzed: 11/09/2020 16:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2000	300
108-60-1	bis (2-chloroisopropyl) ether	ND		2000	410
111-91-1	Bis(2-chloroethoxy)methane	ND		2000	430
111-44-4	Bis(2-chloroethyl)ether	ND		2000	260
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2000	690
85-68-7	Butyl benzyl phthalate	ND		2000	340
105-60-2	Caprolactam	ND		2000	610
86-74-8	Carbazole	320	J	2000	240
218-01-9	Chrysene	5300		2000	460
53-70-3	Dibenz(a,h)anthracene	1300	J	2000	360
132-64-9	Dibenzofuran	ND		2000	240
84-66-2	Diethyl phthalate	ND		2000	260
131-11-3	Dimethyl phthalate	ND		2000	240
84-74-2	Di-n-butyl phthalate	ND		2000	350
117-84-0	Di-n-octyl phthalate	ND		2000	240
206-44-0	Fluoranthene	11000		2000	220
86-73-7	Fluorene	ND		2000	240
118-74-1	Hexachlorobenzene	ND		2000	280
87-68-3	Hexachlorobutadiene	ND		2000	300
77-47-4	Hexachlorocyclopentadiene	ND		2000	280
67-72-1	Hexachloroethane	ND		2000	260
193-39-5	Indeno(1,2,3-cd)pyrene	4300		2000	250
78-59-1	Isophorone	ND		2000	430
91-20-3	Naphthalene	ND		2000	260
98-95-3	Nitrobenzene	ND		2000	230
621-64-7	N-Nitrosodi-n-propylamine	ND		2000	350
86-30-6	N-Nitrosodiphenylamine	ND		2000	1700
87-86-5	Pentachlorophenol	ND		4000	2000
85-01-8	Phenanthrene	4000		2000	300
108-95-2	Phenol	ND		2000	310
129-00-0	Pyrene	8600		2000	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-30-20-0-1 Lab Sample ID: 480-177558-4

Matrix: Solid Lab File ID: X21470916.D

Analysis Method: 8270D Date Collected: 11/03/2020 09:45

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.19(g) Date Analyzed: 11/09/2020 16:06

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 17.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 6 TIC Result Total: 14300

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
198-55-0	Perylene	13.98	3900	T J N	93%
	Unknown	14.68	2600	T J	
	Unknown	14.77	1700	T J	
1223-31-0	di(p-Nitrophenyl) sulfide	15.19	1900	T J N	95%
189-64-0	3,4:8,9-Dibenzopyrene	16.10	2400	T J N	97%
	Unknown	16.65	1800	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-29-20-0-1 | Lab Sample ID: 480-177558-6

Matrix: Solid | Lab File ID: X21470917.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:00

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.11(g) | Date Analyzed: 11/09/2020 16:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1000	270
88-06-2	2,4,6-Trichlorophenol	ND		1000	200
120-83-2	2,4-Dichlorophenol	ND		1000	110
105-67-9	2,4-Dimethylphenol	ND		1000	240
51-28-5	2,4-Dinitrophenol	ND		9900	4700
121-14-2	2,4-Dinitrotoluene	ND		1000	210
606-20-2	2,6-Dinitrotoluene	ND		1000	120
91-58-7	2-Chloronaphthalene	ND		1000	170
95-57-8	2-Chlorophenol	ND		2000	180
91-57-6	2-Methylnaphthalene	ND		1000	200
95-48-7	2-Methylphenol	ND		1000	120
88-74-4	2-Nitroaniline	ND		2000	150
88-75-5	2-Nitrophenol	ND		1000	290
91-94-1	3,3'-Dichlorobenzidine	ND		2000	1200
99-09-2	3-Nitroaniline	ND		2000	280
534-52-1	4,6-Dinitro-2-methylphenol	ND		2000	1000
101-55-3	4-Bromophenyl phenyl ether	ND		1000	140
59-50-7	4-Chloro-3-methylphenol	ND		1000	250
106-47-8	4-Chloroaniline	ND		1000	250
7005-72-3	4-Chlorophenyl phenyl ether	ND		1000	120
106-44-5	4-Methylphenol	ND		2000	120
100-01-6	4-Nitroaniline	ND		2000	530
100-02-7	4-Nitrophenol	ND		2000	710
83-32-9	Acenaphthene	170	J	1000	150
208-96-8	Acenaphthylene	300	J	1000	130
98-86-2	Acetophenone	ND		1000	140
120-12-7	Anthracene	580	J	1000	250
1912-24-9	Atrazine	ND		1000	350
100-52-7	Benzaldehyde	ND		1000	800
56-55-3	Benzo(a)anthracene	3200		1000	100
50-32-8	Benzo(a)pyrene	4300		1000	150
205-99-2	Benzo(b)fluoranthene	6300		1000	160
191-24-2	Benzo(g,h,i)perylene	3400		1000	110
207-08-9	Benzo(k)fluoranthene	2300		1000	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-29-20-0-1 Lab Sample ID: 480-177558-6

Matrix: Solid Lab File ID: X21470917.D

Analysis Method: 8270D Date Collected: 11/03/2020 10:00

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.11(g) Date Analyzed: 11/09/2020 16:30

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 16.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1000	150
108-60-1	bis (2-chloroisopropyl) ether	ND		1000	200
111-91-1	Bis(2-chloroethoxy)methane	ND		1000	210
111-44-4	Bis(2-chloroethyl)ether	ND		1000	130
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1000	340
85-68-7	Butyl benzyl phthalate	ND		1000	170
105-60-2	Caprolactam	ND		1000	300
86-74-8	Carbazole	430	J	1000	120
218-01-9	Chrysene	4300		1000	230
53-70-3	Dibenz(a,h)anthracene	880	J	1000	180
132-64-9	Dibenzofuran	ND		1000	120
84-66-2	Diethyl phthalate	ND		1000	130
131-11-3	Dimethyl phthalate	ND		1000	120
84-74-2	Di-n-butyl phthalate	ND		1000	170
117-84-0	Di-n-octyl phthalate	ND		1000	120
206-44-0	Fluoranthene	7600		1000	110
86-73-7	Fluorene	160	J	1000	120
118-74-1	Hexachlorobenzene	ND		1000	140
87-68-3	Hexachlorobutadiene	ND		1000	150
77-47-4	Hexachlorocyclopentadiene	ND		1000	140
67-72-1	Hexachloroethane	ND		1000	130
193-39-5	Indeno(1,2,3-cd)pyrene	3100		1000	120
78-59-1	Isophorone	ND		1000	210
91-20-3	Naphthalene	ND		1000	130
98-95-3	Nitrobenzene	ND		1000	110
621-64-7	N-Nitrosodi-n-propylamine	ND		1000	170
86-30-6	N-Nitrosodiphenylamine	ND		1000	820
87-86-5	Pentachlorophenol	ND		2000	1000
85-01-8	Phenanthrene	3000		1000	150
108-95-2	Phenol	ND		1000	150
129-00-0	Pyrene	5900		1000	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-29-20-0-1 | Lab Sample ID: 480-177558-6

Matrix: Solid | Lab File ID: X21470917.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:00

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.11(g) | Date Analyzed: 11/09/2020 16:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

Number TICs Found: 9 | TIC Result Total: 12490

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
84-65-1	9,10-Anthracenedione	11.35	1100	T J N	95%
	Unknown	13.71	820	T J	
192-97-2	Benzo[e]pyrene	13.89	920	T J N	94%
	Unknown	13.97	950	T J	
198-55-0	Perylene	14.02	3100	T J N	98%
	Unknown	14.83	1500	T J	
191-26-4	Dibenzo[def,mno]chrysene	15.25	1400	T J N	91%
192-65-4	1,2:4,5-Dibenzopyrene	16.18	1600	T J N	97%
5385-75-1	Dibenz(a,e)aceanthrylene	16.27	1100	T J N	98%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-25-20-0-1 | Lab Sample ID: 480-177558-8

Matrix: Solid | Lab File ID: X21470918.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:20

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.07(g) | Date Analyzed: 11/09/2020 16:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		240	66
88-06-2	2,4,6-Trichlorophenol	ND		240	49
120-83-2	2,4-Dichlorophenol	ND		240	26
105-67-9	2,4-Dimethylphenol	ND		240	59
51-28-5	2,4-Dinitrophenol	ND		2400	1100
121-14-2	2,4-Dinitrotoluene	ND		240	50
606-20-2	2,6-Dinitrotoluene	ND		240	29
91-58-7	2-Chloronaphthalene	ND		240	40
95-57-8	2-Chlorophenol	ND		480	45
91-57-6	2-Methylnaphthalene	ND		240	49
95-48-7	2-Methylphenol	ND		240	29
88-74-4	2-Nitroaniline	ND		480	36
88-75-5	2-Nitrophenol	ND		240	69
91-94-1	3,3'-Dichlorobenzidine	ND		480	290
99-09-2	3-Nitroaniline	ND		480	68
534-52-1	4,6-Dinitro-2-methylphenol	ND		480	240
101-55-3	4-Bromophenyl phenyl ether	ND		240	35
59-50-7	4-Chloro-3-methylphenol	ND		240	60
106-47-8	4-Chloroaniline	ND		240	60
7005-72-3	4-Chlorophenyl phenyl ether	ND		240	30
106-44-5	4-Methylphenol	ND		480	29
100-01-6	4-Nitroaniline	ND		480	130
100-02-7	4-Nitrophenol	ND		480	170
83-32-9	Acenaphthene	ND		240	36
208-96-8	Acenaphthylene	ND		240	32
98-86-2	Acetophenone	ND		240	33
120-12-7	Anthracene	70	J	240	60
1912-24-9	Atrazine	ND		240	85
100-52-7	Benzaldehyde	ND		240	190
56-55-3	Benzo(a)anthracene	280		240	24
50-32-8	Benzo(a)pyrene	330		240	36
205-99-2	Benzo(b)fluoranthene	390		240	39
191-24-2	Benzo(g,h,i)perylene	230	J	240	26
207-08-9	Benzo(k)fluoranthene	200	J	240	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-25-20-0-1 | Lab Sample ID: 480-177558-8

Matrix: Solid | Lab File ID: X21470918.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:20

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.07(g) | Date Analyzed: 11/09/2020 16:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		240	36
108-60-1	bis (2-chloroisopropyl) ether	ND		240	49
111-91-1	Bis(2-chloroethoxy)methane	ND		240	52
111-44-4	Bis(2-chloroethyl)ether	ND		240	32
117-81-7	Bis(2-ethylhexyl) phthalate	ND		240	84
85-68-7	Butyl benzyl phthalate	ND		240	40
105-60-2	Caprolactam	ND		240	73
86-74-8	Carbazole	37	J	240	29
218-01-9	Chrysene	300		240	55
53-70-3	Dibenz(a,h)anthracene	66	J	240	43
132-64-9	Dibenzofuran	ND		240	29
84-66-2	Diethyl phthalate	ND		240	32
131-11-3	Dimethyl phthalate	ND		240	29
84-74-2	Di-n-butyl phthalate	ND		240	42
117-84-0	Di-n-octyl phthalate	ND		240	29
206-44-0	Fluoranthene	610		240	26
86-73-7	Fluorene	ND		240	29
118-74-1	Hexachlorobenzene	ND		240	33
87-68-3	Hexachlorobutadiene	ND		240	36
77-47-4	Hexachlorocyclopentadiene	ND		240	33
67-72-1	Hexachloroethane	ND		240	32
193-39-5	Indeno(1,2,3-cd)pyrene	200	J	240	30
78-59-1	Isophorone	ND		240	52
91-20-3	Naphthalene	ND		240	32
98-95-3	Nitrobenzene	ND		240	27
621-64-7	N-Nitrosodi-n-propylamine	ND		240	42
86-30-6	N-Nitrosodiphenylamine	ND		240	200
87-86-5	Pentachlorophenol	ND		480	240
85-01-8	Phenanthrene	370		240	36
108-95-2	Phenol	ND		240	37
129-00-0	Pyrene	510		240	29

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-25-20-0-1 Lab Sample ID: 480-177558-8

Matrix: Solid Lab File ID: X21470918.D

Analysis Method: 8270D Date Collected: 11/03/2020 10:20

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.07(g) Date Analyzed: 11/09/2020 16:55

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 30.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 3260

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.96	470	T J	
56641-38-4	.gamma.-Chlordene	11.31	350	T J N	98%
57-74-9	Chlordane	11.83	330	T J N	99%
629-96-9	1-Eicosanol	12.89	230	T J N	93%
6765-39-5	1-Heptadecene	13.42	380	T J N	89%
6624-79-9	1-Dotriacontanol	13.92	520	T J N	93%
192-97-2	Benzo[e]pyrene	14.03	200	T J N	96%
83-47-6	.gamma.-Sitosterol	15.18	290	T J N	94%
	Unknown	16.07	200	T J	
	Unknown	16.15	290	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-24-20-0-1 | Lab Sample ID: 480-177558-10

Matrix: Solid | Lab File ID: X21470919.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:50

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.87(g) | Date Analyzed: 11/09/2020 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 31.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1200	320
88-06-2	2,4,6-Trichlorophenol	ND		1200	240
120-83-2	2,4-Dichlorophenol	ND		1200	130
105-67-9	2,4-Dimethylphenol	ND		1200	290
51-28-5	2,4-Dinitrophenol	ND		12000	5500
121-14-2	2,4-Dinitrotoluene	ND		1200	250
606-20-2	2,6-Dinitrotoluene	ND		1200	140
91-58-7	2-Chloronaphthalene	ND		1200	200
95-57-8	2-Chlorophenol	ND		2300	220
91-57-6	2-Methylnaphthalene	ND		1200	240
95-48-7	2-Methylphenol	ND		1200	140
88-74-4	2-Nitroaniline	ND		2300	180
88-75-5	2-Nitrophenol	ND		1200	340
91-94-1	3,3'-Dichlorobenzidine	ND		2300	1400
99-09-2	3-Nitroaniline	ND		2300	330
534-52-1	4,6-Dinitro-2-methylphenol	ND		2300	1200
101-55-3	4-Bromophenyl phenyl ether	ND		1200	170
59-50-7	4-Chloro-3-methylphenol	ND		1200	300
106-47-8	4-Chloroaniline	ND		1200	300
7005-72-3	4-Chlorophenyl phenyl ether	ND		1200	150
106-44-5	4-Methylphenol	ND		2300	140
100-01-6	4-Nitroaniline	ND		2300	630
100-02-7	4-Nitrophenol	ND		2300	840
83-32-9	Acenaphthene	ND		1200	180
208-96-8	Acenaphthylene	ND		1200	160
98-86-2	Acetophenone	ND		1200	160
120-12-7	Anthracene	ND		1200	300
1912-24-9	Atrazine	ND		1200	420
100-52-7	Benzaldehyde	ND		1200	950
56-55-3	Benzo(a)anthracene	510	J	1200	120
50-32-8	Benzo(a)pyrene	570	J	1200	180
205-99-2	Benzo(b)fluoranthene	650	J	1200	190
191-24-2	Benzo(g,h,i)perylene	330	J	1200	130
207-08-9	Benzo(k)fluoranthene	320	J	1200	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-24-20-0-1 | Lab Sample ID: 480-177558-10

Matrix: Solid | Lab File ID: X21470919.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:50

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.87(g) | Date Analyzed: 11/09/2020 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 31.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1200	180
108-60-1	bis (2-chloroisopropyl) ether	ND		1200	240
111-91-1	Bis(2-chloroethoxy)methane	ND		1200	250
111-44-4	Bis(2-chloroethyl)ether	ND		1200	160
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1200	410
85-68-7	Butyl benzyl phthalate	ND		1200	200
105-60-2	Caprolactam	ND		1200	360
86-74-8	Carbazole	ND		1200	140
218-01-9	Chrysene	400	J	1200	270
53-70-3	Dibenz(a,h)anthracene	ND		1200	210
132-64-9	Dibenzofuran	ND		1200	140
84-66-2	Diethyl phthalate	ND		1200	160
131-11-3	Dimethyl phthalate	ND		1200	140
84-74-2	Di-n-butyl phthalate	ND		1200	200
117-84-0	Di-n-octyl phthalate	ND		1200	140
206-44-0	Fluoranthene	1000	J	1200	130
86-73-7	Fluorene	ND		1200	140
118-74-1	Hexachlorobenzene	ND		1200	160
87-68-3	Hexachlorobutadiene	ND		1200	180
77-47-4	Hexachlorocyclopentadiene	ND		1200	160
67-72-1	Hexachloroethane	ND		1200	160
193-39-5	Indeno(1,2,3-cd)pyrene	310	J	1200	150
78-59-1	Isophorone	ND		1200	250
91-20-3	Naphthalene	ND		1200	160
98-95-3	Nitrobenzene	ND		1200	130
621-64-7	N-Nitrosodi-n-propylamine	ND		1200	200
86-30-6	N-Nitrosodiphenylamine	ND		1200	970
87-86-5	Pentachlorophenol	ND		2300	1200
85-01-8	Phenanthrene	600	J	1200	180
108-95-2	Phenol	ND		1200	180
129-00-0	Pyrene	780	J	1200	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-24-20-0-1 Lab Sample ID: 480-177558-10

Matrix: Solid Lab File ID: X21470919.D

Analysis Method: 8270D Date Collected: 11/03/2020 10:50

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.87(g) Date Analyzed: 11/09/2020 17:19

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 31.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 8 TIC Result Total: 12100

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	13.92	1400	T J	
	Unknown	14.21	1000	T J	
	Unknown	14.52	1100	T J	
	Unknown	14.85	1500	T J	
	Unknown	15.22	1300	T J	
	Unknown	15.67	2500	T J	
	Unknown	16.21	1600	T J	
	Unknown	16.86	1700	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-23-20-0-1 | Lab Sample ID: 480-177558-12

Matrix: Solid | Lab File ID: X21470920.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:55

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.77(g) | Date Analyzed: 11/09/2020 17:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		240	64
88-06-2	2,4,6-Trichlorophenol	ND		240	47
120-83-2	2,4-Dichlorophenol	ND		240	25
105-67-9	2,4-Dimethylphenol	ND		240	57
51-28-5	2,4-Dinitrophenol	ND		2300	1100
121-14-2	2,4-Dinitrotoluene	ND		240	49
606-20-2	2,6-Dinitrotoluene	ND		240	28
91-58-7	2-Chloronaphthalene	ND		240	39
95-57-8	2-Chlorophenol	ND		460	43
91-57-6	2-Methylnaphthalene	ND		240	47
95-48-7	2-Methylphenol	ND		240	28
88-74-4	2-Nitroaniline	ND		460	35
88-75-5	2-Nitrophenol	ND		240	67
91-94-1	3,3'-Dichlorobenzidine	ND		460	280
99-09-2	3-Nitroaniline	ND		460	66
534-52-1	4,6-Dinitro-2-methylphenol	ND		460	240
101-55-3	4-Bromophenyl phenyl ether	ND		240	33
59-50-7	4-Chloro-3-methylphenol	ND		240	59
106-47-8	4-Chloroaniline	ND		240	59
7005-72-3	4-Chlorophenyl phenyl ether	ND		240	29
106-44-5	4-Methylphenol	ND		460	28
100-01-6	4-Nitroaniline	ND		460	120
100-02-7	4-Nitrophenol	ND		460	170
83-32-9	Acenaphthene	ND		240	35
208-96-8	Acenaphthylene	ND		240	31
98-86-2	Acetophenone	ND		240	32
120-12-7	Anthracene	ND		240	59
1912-24-9	Atrazine	ND		240	82
100-52-7	Benzaldehyde	ND		240	190
56-55-3	Benzo(a)anthracene	200	J	240	24
50-32-8	Benzo(a)pyrene	260		240	35
205-99-2	Benzo(b)fluoranthene	320		240	38
191-24-2	Benzo(g,h,i)perylene	170	J	240	25
207-08-9	Benzo(k)fluoranthene	140	J	240	31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-23-20-0-1 | Lab Sample ID: 480-177558-12

Matrix: Solid | Lab File ID: X21470920.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:55

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.77(g) | Date Analyzed: 11/09/2020 17:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		240	35
108-60-1	bis (2-chloroisopropyl) ether	ND		240	47
111-91-1	Bis(2-chloroethoxy)methane	ND		240	50
111-44-4	Bis(2-chloroethyl)ether	ND		240	31
117-81-7	Bis(2-ethylhexyl) phthalate	ND		240	81
85-68-7	Butyl benzyl phthalate	46	J	240	39
105-60-2	Caprolactam	ND		240	71
86-74-8	Carbazole	ND		240	28
218-01-9	Chrysene	230	J	240	53
53-70-3	Dibenz(a,h)anthracene	51	J	240	42
132-64-9	Dibenzofuran	ND		240	28
84-66-2	Diethyl phthalate	ND		240	31
131-11-3	Dimethyl phthalate	ND		240	28
84-74-2	Di-n-butyl phthalate	ND		240	40
117-84-0	Di-n-octyl phthalate	ND		240	28
206-44-0	Fluoranthene	410		240	25
86-73-7	Fluorene	ND		240	28
118-74-1	Hexachlorobenzene	ND		240	32
87-68-3	Hexachlorobutadiene	ND		240	35
77-47-4	Hexachlorocyclopentadiene	ND		240	32
67-72-1	Hexachloroethane	ND		240	31
193-39-5	Indeno(1,2,3-cd)pyrene	160	J	240	29
78-59-1	Isophorone	ND		240	50
91-20-3	Naphthalene	ND		240	31
98-95-3	Nitrobenzene	ND		240	27
621-64-7	N-Nitrosodi-n-propylamine	ND		240	40
86-30-6	N-Nitrosodiphenylamine	ND		240	190
87-86-5	Pentachlorophenol	ND		460	240
85-01-8	Phenanthrene	180	J	240	35
108-95-2	Phenol	ND		240	36
129-00-0	Pyrene	350		240	28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-23-20-0-1 | Lab Sample ID: 480-177558-12

Matrix: Solid | Lab File ID: X21470920.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:55

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.77(g) | Date Analyzed: 11/09/2020 17:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

Number TICs Found: 19 | TIC Result Total: 16860

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
107-92-6	Butanoic acid	2.10	760	T J N	91%
	Unknown	2.97	1300	T J	
56641-38-4	.gamma.-Chlordene	11.32	620	T J N	95%
10544-50-0	Cyclic octaatomic sulfur	11.77	630	T J N	91%
1000155-82-2	Bicyclo[10.8.0]eicosane, (Z)-	12.12	820	T J N	97%
112-92-5	1-Octadecanol	12.31	570	T J N	94%
638-66-4	Octadecanal	12.72	710	T J N	94%
1599-67-3	1-Docosene	12.89	1100	T J N	96%
14811-95-1	1,19-Eicosadiene	13.27	1400	T J N	97%
6971-40-0	17-Pentatriacontene	13.42	1200	T J N	91%
53057-53-7	1,21-Docosadiene	13.78	1300	T J N	96%
6624-79-9	1-Dotriacontanol	13.93	730	T J N	90%
67860-04-2	Oxirane, heptadecyl-	14.26	540	T J N	94%
7390-81-0	Oxirane, hexadecyl-	14.79	530	T J N	91%
83-48-7	Stigmasterol	14.99	590	T J N	92%
83-46-5	.beta.-Sitosterol	15.19	2300	T J N	90%
	Unknown	15.23	530	T J	
	Unknown	15.35	510	T J	
	Unknown	15.67	720	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-22-20-0-1 | Lab Sample ID: 480-177558-14

Matrix: Solid | Lab File ID: X21470921.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:35

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.22(g) | Date Analyzed: 11/09/2020 18:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		220	60
88-06-2	2,4,6-Trichlorophenol	ND		220	45
120-83-2	2,4-Dichlorophenol	ND		220	24
105-67-9	2,4-Dimethylphenol	ND		220	54
51-28-5	2,4-Dinitrophenol	ND		2200	1000
121-14-2	2,4-Dinitrotoluene	ND		220	46
606-20-2	2,6-Dinitrotoluene	ND		220	26
91-58-7	2-Chloronaphthalene	ND		220	37
95-57-8	2-Chlorophenol	ND		430	41
91-57-6	2-Methylnaphthalene	ND		220	45
95-48-7	2-Methylphenol	ND		220	26
88-74-4	2-Nitroaniline	ND		430	33
88-75-5	2-Nitrophenol	ND		220	63
91-94-1	3,3'-Dichlorobenzidine	ND		430	260
99-09-2	3-Nitroaniline	ND		430	62
534-52-1	4,6-Dinitro-2-methylphenol	ND		430	220
101-55-3	4-Bromophenyl phenyl ether	ND		220	32
59-50-7	4-Chloro-3-methylphenol	ND		220	55
106-47-8	4-Chloroaniline	ND		220	55
7005-72-3	4-Chlorophenyl phenyl ether	ND		220	28
106-44-5	4-Methylphenol	ND		430	26
100-01-6	4-Nitroaniline	ND		430	120
100-02-7	4-Nitrophenol	ND		430	160
83-32-9	Acenaphthene	51	J	220	33
208-96-8	Acenaphthylene	ND		220	29
98-86-2	Acetophenone	ND		220	30
120-12-7	Anthracene	140	J	220	55
1912-24-9	Atrazine	ND		220	78
100-52-7	Benzaldehyde	ND		220	180
56-55-3	Benzo(a)anthracene	380		220	22
50-32-8	Benzo(a)pyrene	390		220	33
205-99-2	Benzo(b)fluoranthene	460		220	35
191-24-2	Benzo(g,h,i)perylene	250		220	24
207-08-9	Benzo(k)fluoranthene	260		220	29

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-22-20-0-1 Lab Sample ID: 480-177558-14

Matrix: Solid Lab File ID: X21470921.D

Analysis Method: 8270D Date Collected: 11/03/2020 10:35

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.22(g) Date Analyzed: 11/09/2020 18:07

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 24.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		220	33
108-60-1	bis (2-chloroisopropyl) ether	ND		220	45
111-91-1	Bis(2-chloroethoxy)methane	ND		220	47
111-44-4	Bis(2-chloroethyl)ether	ND		220	29
117-81-7	Bis(2-ethylhexyl) phthalate	ND		220	76
85-68-7	Butyl benzyl phthalate	ND		220	37
105-60-2	Caprolactam	ND		220	67
86-74-8	Carbazole	57	J	220	26
218-01-9	Chrysene	380		220	50
53-70-3	Dibenz(a,h)anthracene	76	J	220	39
132-64-9	Dibenzofuran	31	J	220	26
84-66-2	Diethyl phthalate	ND		220	29
131-11-3	Dimethyl phthalate	ND		220	26
84-74-2	Di-n-butyl phthalate	ND		220	38
117-84-0	Di-n-octyl phthalate	ND		220	26
206-44-0	Fluoranthene	840		220	24
86-73-7	Fluorene	62	J	220	26
118-74-1	Hexachlorobenzene	ND		220	30
87-68-3	Hexachlorobutadiene	ND		220	33
77-47-4	Hexachlorocyclopentadiene	ND		220	30
67-72-1	Hexachloroethane	ND		220	29
193-39-5	Indeno(1,2,3-cd)pyrene	230		220	28
78-59-1	Isophorone	ND		220	47
91-20-3	Naphthalene	ND		220	29
98-95-3	Nitrobenzene	ND		220	25
621-64-7	N-Nitrosodi-n-propylamine	ND		220	38
86-30-6	N-Nitrosodiphenylamine	ND		220	180
87-86-5	Pentachlorophenol	ND		430	220
85-01-8	Phenanthrene	610		220	33
108-95-2	Phenol	ND		220	34
129-00-0	Pyrene	670		220	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-22-20-0-1 | Lab Sample ID: 480-177558-14

Matrix: Solid | Lab File ID: X21470921.D

Analysis Method: 8270D | Date Collected: 11/03/2020 10:35

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.22(g) | Date Analyzed: 11/09/2020 18:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

Number TICs Found: 9 | TIC Result Total: 4590

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.94	2000	T J	
74685-30-6	5-Eicosene, (E)-	12.89	300	T J N	98%
1599-67-3	1-Docosene	13.42	560	T J N	97%
	Unknown	13.78	190	T J	
297-03-0	Cyclotetracosane	13.93	530	T J N	97%
198-55-0	Perylene	14.03	250	T J N	97%
	Unknown	15.18	230	T J	
	Unknown	15.70	180	T J	
	Unknown	16.15	350	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-28-20-0-1 | Lab Sample ID: 480-177558-16

Matrix: Solid | Lab File ID: X21470922.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:10

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.55(g) | Date Analyzed: 11/09/2020 18:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1100	300
88-06-2	2,4,6-Trichlorophenol	ND		1100	220
120-83-2	2,4-Dichlorophenol	ND		1100	120
105-67-9	2,4-Dimethylphenol	ND		1100	260
51-28-5	2,4-Dinitrophenol	ND		11000	5100
121-14-2	2,4-Dinitrotoluene	ND		1100	230
606-20-2	2,6-Dinitrotoluene	ND		1100	130
91-58-7	2-Chloronaphthalene	ND		1100	180
95-57-8	2-Chlorophenol	ND		2100	200
91-57-6	2-Methylnaphthalene	ND		1100	220
95-48-7	2-Methylphenol	ND		1100	130
88-74-4	2-Nitroaniline	ND		2100	160
88-75-5	2-Nitrophenol	ND		1100	310
91-94-1	3,3'-Dichlorobenzidine	ND		2100	1300
99-09-2	3-Nitroaniline	ND		2100	300
534-52-1	4,6-Dinitro-2-methylphenol	ND		2100	1100
101-55-3	4-Bromophenyl phenyl ether	ND		1100	150
59-50-7	4-Chloro-3-methylphenol	ND		1100	270
106-47-8	4-Chloroaniline	ND		1100	270
7005-72-3	4-Chlorophenyl phenyl ether	ND		1100	140
106-44-5	4-Methylphenol	ND		2100	130
100-01-6	4-Nitroaniline	ND		2100	570
100-02-7	4-Nitrophenol	ND		2100	770
83-32-9	Acenaphthene	ND		1100	160
208-96-8	Acenaphthylene	ND		1100	140
98-86-2	Acetophenone	ND		1100	150
120-12-7	Anthracene	460	J	1100	270
1912-24-9	Atrazine	ND		1100	380
100-52-7	Benzaldehyde	ND		1100	870
56-55-3	Benzo(a)anthracene	2000		1100	110
50-32-8	Benzo(a)pyrene	2400		1100	160
205-99-2	Benzo(b)fluoranthene	2900		1100	170
191-24-2	Benzo(g,h,i)perylene	1800		1100	120
207-08-9	Benzo(k)fluoranthene	1500		1100	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-28-20-0-1 | Lab Sample ID: 480-177558-16

Matrix: Solid | Lab File ID: X21470922.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:10

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.55(g) | Date Analyzed: 11/09/2020 18:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1100	160
108-60-1	bis (2-chloroisopropyl) ether	ND		1100	220
111-91-1	Bis(2-chloroethoxy)methane	ND		1100	230
111-44-4	Bis(2-chloroethyl)ether	ND		1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1100	370
85-68-7	Butyl benzyl phthalate	ND		1100	180
105-60-2	Caprolactam	ND		1100	330
86-74-8	Carbazole	160	J	1100	130
218-01-9	Chrysene	2200		1100	250
53-70-3	Dibenz(a,h)anthracene	480	J	1100	190
132-64-9	Dibenzofuran	ND		1100	130
84-66-2	Diethyl phthalate	ND		1100	140
131-11-3	Dimethyl phthalate	ND		1100	130
84-74-2	Di-n-butyl phthalate	ND		1100	190
117-84-0	Di-n-octyl phthalate	ND		1100	130
206-44-0	Fluoranthene	4200		1100	120
86-73-7	Fluorene	ND		1100	130
118-74-1	Hexachlorobenzene	ND		1100	150
87-68-3	Hexachlorobutadiene	ND		1100	160
77-47-4	Hexachlorocyclopentadiene	ND		1100	150
67-72-1	Hexachloroethane	ND		1100	140
193-39-5	Indeno(1,2,3-cd)pyrene	1600		1100	140
78-59-1	Isophorone	ND		1100	230
91-20-3	Naphthalene	ND		1100	140
98-95-3	Nitrobenzene	ND		1100	120
621-64-7	N-Nitrosodi-n-propylamine	ND		1100	190
86-30-6	N-Nitrosodiphenylamine	ND		1100	890
87-86-5	Pentachlorophenol	ND		2100	1100
85-01-8	Phenanthrene	1900		1100	160
108-95-2	Phenol	ND		1100	170
129-00-0	Pyrene	3300		1100	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-28-20-0-1 Lab Sample ID: 480-177558-16

Matrix: Solid Lab File ID: X21470922.D

Analysis Method: 8270D Date Collected: 11/03/2020 11:10

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.55(g) Date Analyzed: 11/09/2020 18:32

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 23.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 4 TIC Result Total: 5370

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.95	1400	T J	
	Unknown	13.93	1600	T J	
192-97-2	Benzo[e]pyrene	14.03	1500	T J N	93%
	Unknown	14.83	870	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-27-20-0-1 | Lab Sample ID: 480-177558-18

Matrix: Solid | Lab File ID: X21470923.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:15

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.40(g) | Date Analyzed: 11/09/2020 18:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1300	340
88-06-2	2,4,6-Trichlorophenol	ND		1300	250
120-83-2	2,4-Dichlorophenol	ND		1300	130
105-67-9	2,4-Dimethylphenol	ND		1300	310
51-28-5	2,4-Dinitrophenol	ND		12000	5900
121-14-2	2,4-Dinitrotoluene	ND		1300	260
606-20-2	2,6-Dinitrotoluene	ND		1300	150
91-58-7	2-Chloronaphthalene	ND		1300	210
95-57-8	2-Chlorophenol	ND		2500	230
91-57-6	2-Methylnaphthalene	ND		1300	250
95-48-7	2-Methylphenol	ND		1300	150
88-74-4	2-Nitroaniline	ND		2500	190
88-75-5	2-Nitrophenol	ND		1300	360
91-94-1	3,3'-Dichlorobenzidine	ND		2500	1500
99-09-2	3-Nitroaniline	ND		2500	350
534-52-1	4,6-Dinitro-2-methylphenol	ND		2500	1300
101-55-3	4-Bromophenyl phenyl ether	ND		1300	180
59-50-7	4-Chloro-3-methylphenol	ND		1300	310
106-47-8	4-Chloroaniline	ND		1300	310
7005-72-3	4-Chlorophenyl phenyl ether	ND		1300	160
106-44-5	4-Methylphenol	ND		2500	150
100-01-6	4-Nitroaniline	ND		2500	660
100-02-7	4-Nitrophenol	ND		2500	890
83-32-9	Acenaphthene	ND		1300	190
208-96-8	Acenaphthylene	ND		1300	160
98-86-2	Acetophenone	ND		1300	170
120-12-7	Anthracene	320	J	1300	310
1912-24-9	Atrazine	ND		1300	440
100-52-7	Benzaldehyde	ND		1300	1000
56-55-3	Benzo(a)anthracene	1700		1300	130
50-32-8	Benzo(a)pyrene	2100		1300	190
205-99-2	Benzo(b)fluoranthene	2900		1300	200
191-24-2	Benzo(g,h,i)perylene	1900		1300	130
207-08-9	Benzo(k)fluoranthene	1400		1300	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-27-20-0-1 | Lab Sample ID: 480-177558-18

Matrix: Solid | Lab File ID: X21470923.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:15

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.40(g) | Date Analyzed: 11/09/2020 18:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1300	190
108-60-1	bis (2-chloroisopropyl) ether	ND		1300	250
111-91-1	Bis(2-chloroethoxy)methane	ND		1300	270
111-44-4	Bis(2-chloroethyl)ether	ND		1300	160
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1300	430
85-68-7	Butyl benzyl phthalate	ND		1300	210
105-60-2	Caprolactam	ND		1300	380
86-74-8	Carbazole	180	J	1300	150
218-01-9	Chrysene	2000		1300	280
53-70-3	Dibenz(a,h)anthracene	390	J	1300	220
132-64-9	Dibenzofuran	ND		1300	150
84-66-2	Diethyl phthalate	ND		1300	160
131-11-3	Dimethyl phthalate	ND		1300	150
84-74-2	Di-n-butyl phthalate	ND		1300	220
117-84-0	Di-n-octyl phthalate	ND		1300	150
206-44-0	Fluoranthene	3600		1300	130
86-73-7	Fluorene	ND		1300	150
118-74-1	Hexachlorobenzene	ND		1300	170
87-68-3	Hexachlorobutadiene	ND		1300	190
77-47-4	Hexachlorocyclopentadiene	ND		1300	170
67-72-1	Hexachloroethane	ND		1300	160
193-39-5	Indeno(1,2,3-cd)pyrene	1600		1300	160
78-59-1	Isophorone	ND		1300	270
91-20-3	Naphthalene	ND		1300	160
98-95-3	Nitrobenzene	ND		1300	140
621-64-7	N-Nitrosodi-n-propylamine	ND		1300	220
86-30-6	N-Nitrosodiphenylamine	ND		1300	1000
87-86-5	Pentachlorophenol	ND		2500	1300
85-01-8	Phenanthrene	1500		1300	190
108-95-2	Phenol	ND		1300	190
129-00-0	Pyrene	2700		1300	150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-27-20-0-1 | Lab Sample ID: 480-177558-18

Matrix: Solid | Lab File ID: X21470923.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:15

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.40(g) | Date Analyzed: 11/09/2020 18:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

Number TICs Found: 7 | TIC Result Total: 11200

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.95	3500	T J	
	Unknown	13.42	1200	T J	
112-88-9	1-Octadecene	13.93	1600	T J N	93%
192-97-2	Benzo[e]pyrene	14.03	1600	T J N	98%
193-43-1	Indeno[1,2,3-cd]fluoranthene	14.83	1000	T J N	89%
83-46-5	.beta.-Sitosterol	15.18	1300	T J N	95%
192-65-4	1,2:4,5-Dibenzopyrene	16.19	1000	T J N	86%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-26-20-0-1 | Lab Sample ID: 480-177558-20

Matrix: Solid | Lab File ID: X21470924.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:25

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.18(g) | Date Analyzed: 11/09/2020 19:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1100	290
88-06-2	2,4,6-Trichlorophenol	ND		1100	210
120-83-2	2,4-Dichlorophenol	ND		1100	110
105-67-9	2,4-Dimethylphenol	ND		1100	260
51-28-5	2,4-Dinitrophenol	ND		10000	4900
121-14-2	2,4-Dinitrotoluene	ND		1100	220
606-20-2	2,6-Dinitrotoluene	ND		1100	130
91-58-7	2-Chloronaphthalene	ND		1100	180
95-57-8	2-Chlorophenol	ND		2100	200
91-57-6	2-Methylnaphthalene	ND		1100	210
95-48-7	2-Methylphenol	ND		1100	130
88-74-4	2-Nitroaniline	ND		2100	160
88-75-5	2-Nitrophenol	ND		1100	300
91-94-1	3,3'-Dichlorobenzidine	ND		2100	1300
99-09-2	3-Nitroaniline	ND		2100	300
534-52-1	4,6-Dinitro-2-methylphenol	ND		2100	1100
101-55-3	4-Bromophenyl phenyl ether	ND		1100	150
59-50-7	4-Chloro-3-methylphenol	ND		1100	260
106-47-8	4-Chloroaniline	ND		1100	260
7005-72-3	4-Chlorophenyl phenyl ether	ND		1100	130
106-44-5	4-Methylphenol	ND		2100	130
100-01-6	4-Nitroaniline	ND		2100	560
100-02-7	4-Nitrophenol	ND		2100	750
83-32-9	Acenaphthene	ND		1100	160
208-96-8	Acenaphthylene	ND		1100	140
98-86-2	Acetophenone	ND		1100	140
120-12-7	Anthracene	410	J	1100	260
1912-24-9	Atrazine	ND		1100	370
100-52-7	Benzaldehyde	ND		1100	850
56-55-3	Benzo(a)anthracene	2200		1100	110
50-32-8	Benzo(a)pyrene	2700		1100	160
205-99-2	Benzo(b)fluoranthene	3300		1100	170
191-24-2	Benzo(g,h,i)perylene	2000		1100	110
207-08-9	Benzo(k)fluoranthene	1600		1100	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-26-20-0-1 | Lab Sample ID: 480-177558-20

Matrix: Solid | Lab File ID: X21470924.D

Analysis Method: 8270D | Date Collected: 11/03/2020 11:25

Extract. Method: 3550C | Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.18(g) | Date Analyzed: 11/09/2020 19:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1100	160
108-60-1	bis (2-chloroisopropyl) ether	ND		1100	210
111-91-1	Bis(2-chloroethoxy)methane	ND		1100	230
111-44-4	Bis(2-chloroethyl)ether	ND		1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1100	370
85-68-7	Butyl benzyl phthalate	ND		1100	180
105-60-2	Caprolactam	ND		1100	320
86-74-8	Carbazole	230	J	1100	130
218-01-9	Chrysene	2400		1100	240
53-70-3	Dibenz(a,h)anthracene	520	J	1100	190
132-64-9	Dibenzofuran	ND		1100	130
84-66-2	Diethyl phthalate	ND		1100	140
131-11-3	Dimethyl phthalate	ND		1100	130
84-74-2	Di-n-butyl phthalate	ND		1100	180
117-84-0	Di-n-octyl phthalate	ND		1100	130
206-44-0	Fluoranthene	4600		1100	110
86-73-7	Fluorene	ND		1100	130
118-74-1	Hexachlorobenzene	ND		1100	140
87-68-3	Hexachlorobutadiene	ND		1100	160
77-47-4	Hexachlorocyclopentadiene	ND		1100	140
67-72-1	Hexachloroethane	ND		1100	140
193-39-5	Indeno(1,2,3-cd)pyrene	1800		1100	130
78-59-1	Isophorone	ND		1100	230
91-20-3	Naphthalene	ND		1100	140
98-95-3	Nitrobenzene	ND		1100	120
621-64-7	N-Nitrosodi-n-propylamine	ND		1100	180
86-30-6	N-Nitrosodiphenylamine	ND		1100	870
87-86-5	Pentachlorophenol	ND		2100	1100
85-01-8	Phenanthrene	2100		1100	160
108-95-2	Phenol	ND		1100	160
129-00-0	Pyrene	3700		1100	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-26-20-0-1 Lab Sample ID: 480-177558-20

Matrix: Solid Lab File ID: X21470924.D

Analysis Method: 8270D Date Collected: 11/03/2020 11:25

Extract. Method: 3550C Date Extracted: 11/06/2020 08:38

Sample wt/vol: 30.18(g) Date Analyzed: 11/09/2020 19:21

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 21.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558110 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 4230

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
198-55-0	Perylene	14.03	1900	T J N	99%
	Unknown	14.84	1400	T J	
189-64-0	3,4:8,9-Dibenzopyrene	16.20	930	T J N	96%

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-54-20-0.5-1 Lab Sample ID: 480-177557-1

Matrix: Solid Lab File ID: 6_075-289.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:10

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.14(g) Date Analyzed: 11/09/2020 00:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 3.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	0.71		0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-54-20-1.5-2 Lab Sample ID: 480-177557-2

Matrix: Solid Lab File ID: 6_075-290.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:12

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.40(g) Date Analyzed: 11/09/2020 00:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	127		60-154
2051-24-3	DCB Decachlorobiphenyl	132		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-54-20-3.5-4.5 Lab Sample ID: 480-177557-3

Matrix: Solid Lab File ID: 6_075-291.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:15

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.27(g) Date Analyzed: 11/09/2020 00:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-53-20-0.5-1 Lab Sample ID: 480-177557-4

Matrix: Solid Lab File ID: 6_075-324.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:34

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.69(g) Date Analyzed: 11/09/2020 11:40

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.0	0.38
11104-28-2	PCB-1221	ND		2.0	0.38
11141-16-5	PCB-1232	ND		2.0	0.38
53469-21-9	PCB-1242	ND		2.0	0.38
12672-29-6	PCB-1248	35	JN	2.0	0.38
11097-69-1	PCB-1254	14	JN	2.0	0.92
11096-82-5	PCB-1260	ND		2.0	0.92
37324-23-5	PCB-1262	ND		2.0	0.92
11100-14-4	PCB-1268	ND		2.0	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	176	X	60-154
2051-24-3	DCB Decachlorobiphenyl	159		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-53-20-3-4 Lab Sample ID: 480-177557-5

Matrix: Solid Lab File ID: 6_075-325.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:35

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.56(g) Date Analyzed: 11/09/2020 11:53

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.1	0.41
11104-28-2	PCB-1221	ND		2.1	0.41
11141-16-5	PCB-1232	ND		2.1	0.41
53469-21-9	PCB-1242	ND		2.1	0.41
12672-29-6	PCB-1248	33		2.1	0.41
11097-69-1	PCB-1254	ND		2.1	0.97
11096-82-5	PCB-1260	ND		2.1	0.97
37324-23-5	PCB-1262	ND		2.1	0.97
11100-14-4	PCB-1268	ND		2.1	0.97

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	164	X	60-154
2051-24-3	DCB Decachlorobiphenyl	163		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-53-20-5-6 Lab Sample ID: 480-177557-6

Matrix: Solid Lab File ID: 6_075-326.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:35

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.67(g) Date Analyzed: 11/09/2020 12:05

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.0	0.39
11104-28-2	PCB-1221	ND		2.0	0.39
11141-16-5	PCB-1232	ND		2.0	0.39
53469-21-9	PCB-1242	ND		2.0	0.39
12672-29-6	PCB-1248	20		2.0	0.39
11097-69-1	PCB-1254	ND		2.0	0.93
11096-82-5	PCB-1260	ND		2.0	0.93
37324-23-5	PCB-1262	ND		2.0	0.93
11100-14-4	PCB-1268	ND		2.0	0.93

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	139		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-51-20-0-1 Lab Sample ID: 480-177557-7

Matrix: Solid Lab File ID: 6_075-327.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:59

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.80(g) Date Analyzed: 11/09/2020 12:17

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		4.0	0.78
11104-28-2	PCB-1221	ND		4.0	0.78
11141-16-5	PCB-1232	ND		4.0	0.78
53469-21-9	PCB-1242	ND		4.0	0.78
12672-29-6	PCB-1248	ND		4.0	0.78
11097-69-1	PCB-1254	65		4.0	1.9
11096-82-5	PCB-1260	ND		4.0	1.9
37324-23-5	PCB-1262	ND		4.0	1.9
11100-14-4	PCB-1268	ND		4.0	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	209	X	60-154
2051-24-3	DCB Decachlorobiphenyl	250	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-51-20-3-4 Lab Sample ID: 480-177557-8

Matrix: Solid Lab File ID: 6_075-328.D

Analysis Method: 8082A Date Collected: 11/03/2020 12:00

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.08(g) Date Analyzed: 11/09/2020 12:30

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.8	0.54
11104-28-2	PCB-1221	ND		2.8	0.54
11141-16-5	PCB-1232	ND		2.8	0.54
53469-21-9	PCB-1242	ND		2.8	0.54
12672-29-6	PCB-1248	ND		2.8	0.54
11097-69-1	PCB-1254	43		2.8	1.3
11096-82-5	PCB-1260	ND		2.8	1.3
37324-23-5	PCB-1262	ND		2.8	1.3
11100-14-4	PCB-1268	ND		2.8	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	169	X	60-154
2051-24-3	DCB Decachlorobiphenyl	179	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-51-20-4-5 Lab Sample ID: 480-177557-9

Matrix: Solid Lab File ID: 6_075-299.D

Analysis Method: 8082A Date Collected: 11/03/2020 12:00

Extraction Method: 3550C Date Extracted: 11/06/2020 08:45

Sample wt/vol: 2.38(g) Date Analyzed: 11/09/2020 02:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558022 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	2.5		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-31-20-0-0.5 Lab Sample ID: 480-177558-1

Matrix: Solid Lab File ID: 6_076-043.D

Analysis Method: 8082A Date Collected: 11/03/2020 09:40

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.76(g) Date Analyzed: 11/10/2020 01:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	ND		0.23	0.044
11097-69-1	PCB-1254	1.3		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		60-154
2051-24-3	DCB Decachlorobiphenyl	79		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-30-20-0-0.5 Lab Sample ID: 480-177558-3

Matrix: Solid Lab File ID: 6_076-042.D

Analysis Method: 8082A Date Collected: 11/03/2020 09:45

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.26(g) Date Analyzed: 11/10/2020 00:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	0.98		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	88		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-29-20-0-0.5 Lab Sample ID: 480-177558-5

Matrix: Solid Lab File ID: 6_076-044.D

Analysis Method: 8082A Date Collected: 11/03/2020 10:00

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.11(g) Date Analyzed: 11/10/2020 01:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.056
11104-28-2	PCB-1221	ND		0.28	0.056
11141-16-5	PCB-1232	ND		0.28	0.056
53469-21-9	PCB-1242	ND		0.28	0.056
12672-29-6	PCB-1248	ND		0.28	0.056
11097-69-1	PCB-1254	0.92		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-25-20-0-0.5 Lab Sample ID: 480-177558-7

Matrix: Solid Lab File ID: 6_076-045.D

Analysis Method: 8082A Date Collected: 11/03/2020 10:20

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.07(g) Date Analyzed: 11/10/2020 01:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 35.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.38	0.074
11104-28-2	PCB-1221	ND		0.38	0.074
11141-16-5	PCB-1232	ND		0.38	0.074
53469-21-9	PCB-1242	ND		0.38	0.074
12672-29-6	PCB-1248	ND		0.38	0.074
11097-69-1	PCB-1254	ND		0.38	0.18
11096-82-5	PCB-1260	ND		0.38	0.18
37324-23-5	PCB-1262	ND		0.38	0.18
11100-14-4	PCB-1268	ND		0.38	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-24-20-0-0.5 Lab Sample ID: 480-177558-9

Matrix: Solid Lab File ID: 6_076-046.D

Analysis Method: 8082A Date Collected: 11/03/2020 10:50

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.53(g) Date Analyzed: 11/10/2020 01:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 35.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.060
11104-28-2	PCB-1221	ND		0.31	0.060
11141-16-5	PCB-1232	ND		0.31	0.060
53469-21-9	PCB-1242	ND		0.31	0.060
12672-29-6	PCB-1248	ND		0.31	0.060
11097-69-1	PCB-1254	ND		0.31	0.14
11096-82-5	PCB-1260	ND		0.31	0.14
37324-23-5	PCB-1262	ND		0.31	0.14
11100-14-4	PCB-1268	ND		0.31	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-23-20-0-0.5 Lab Sample ID: 480-177558-11

Matrix: Solid Lab File ID: 6_076-047.D

Analysis Method: 8082A Date Collected: 11/03/2020 10:55

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.23(g) Date Analyzed: 11/10/2020 01:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 46.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.42	0.082
11104-28-2	PCB-1221	ND		0.42	0.082
11141-16-5	PCB-1232	ND		0.42	0.082
53469-21-9	PCB-1242	ND		0.42	0.082
12672-29-6	PCB-1248	ND		0.42	0.082
11097-69-1	PCB-1254	ND		0.42	0.20
11096-82-5	PCB-1260	ND		0.42	0.20
37324-23-5	PCB-1262	ND		0.42	0.20
11100-14-4	PCB-1268	ND		0.42	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-22-20-0-0.5 Lab Sample ID: 480-177558-13

Matrix: Solid Lab File ID: 6_076-048.D

Analysis Method: 8082A Date Collected: 11/03/2020 10:35

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.35(g) Date Analyzed: 11/10/2020 02:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 26.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		60-154
2051-24-3	DCB Decachlorobiphenyl	109		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-28-20-0-0.5 Lab Sample ID: 480-177558-15

Matrix: Solid Lab File ID: 6_076-051.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:10

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.37(g) Date Analyzed: 11/10/2020 02:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 43.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.37	0.073
11104-28-2	PCB-1221	ND		0.37	0.073
11141-16-5	PCB-1232	ND		0.37	0.073
53469-21-9	PCB-1242	ND		0.37	0.073
12672-29-6	PCB-1248	ND		0.37	0.073
11097-69-1	PCB-1254	ND		0.37	0.17
11096-82-5	PCB-1260	ND		0.37	0.17
37324-23-5	PCB-1262	ND		0.37	0.17
11100-14-4	PCB-1268	ND		0.37	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	97		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-27-20-0-0.5 Lab Sample ID: 480-177558-17

Matrix: Solid Lab File ID: 6_076-052.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:15

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.85(g) Date Analyzed: 11/10/2020 02:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 33.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SF-26-20-0-0.5 Lab Sample ID: 480-177558-19

Matrix: Solid Lab File ID: 6_076-053.D

Analysis Method: 8082A Date Collected: 11/03/2020 11:25

Extraction Method: 3550C Date Extracted: 11/06/2020 11:10

Sample wt/vol: 2.41(g) Date Analyzed: 11/10/2020 03:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 29.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558214 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	0.41		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-64-20-0-1 Lab Sample ID: 480-177720-1

Matrix: Solid Lab File ID: 7_83-077.D

Analysis Method: 8082A Date Collected: 11/02/2020 10:45

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.38(g) Date Analyzed: 11/13/2020 14:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	1.8		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	88		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-64-20-2-3 Lab Sample ID: 480-177720-2

Matrix: Solid Lab File ID: 7_83-078.D

Analysis Method: 8082A Date Collected: 11/02/2020 10:45

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.18(g) Date Analyzed: 11/13/2020 14:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	0.31		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-64-20-4-5 Lab Sample ID: 480-177720-3

Matrix: Solid Lab File ID: 7_83-079.D

Analysis Method: 8082A Date Collected: 11/02/2020 10:45

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.12(g) Date Analyzed: 11/13/2020 14:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 1.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-66-20-0-1 Lab Sample ID: 480-177720-4

Matrix: Solid Lab File ID: 7_83-080.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:05

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.30(g) Date Analyzed: 11/13/2020 14:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	0.52		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	0.19	J	0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-66-20-1-2 Lab Sample ID: 480-177720-5

Matrix: Solid Lab File ID: 7_83-081.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:05

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.05(g) Date Analyzed: 11/13/2020 15:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 6.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-63-20-0-1 Lab Sample ID: 480-177720-6

Matrix: Solid Lab File ID: 7_83-082.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.55(g) Date Analyzed: 11/13/2020 15:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.044
11104-28-2	PCB-1221	ND		0.22	0.044
11141-16-5	PCB-1232	ND		0.22	0.044
53469-21-9	PCB-1242	ND		0.22	0.044
12672-29-6	PCB-1248	0.057	J	0.22	0.044
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	108		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-63-20-1-2 Lab Sample ID: 480-177720-7

Matrix: Solid Lab File ID: 7_83-083.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.44(g) Date Analyzed: 11/13/2020 15:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.050
11104-28-2	PCB-1221	ND		0.25	0.050
11141-16-5	PCB-1232	ND		0.25	0.050
53469-21-9	PCB-1242	ND		0.25	0.050
12672-29-6	PCB-1248	0.32		0.25	0.050
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-63-20-4-5 Lab Sample ID: 480-177720-8

Matrix: Solid Lab File ID: 7_83-076.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.62(g) Date Analyzed: 11/13/2020 13:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 24.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	0.33		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	96		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-65-20-0-1 Lab Sample ID: 480-177720-9

Matrix: Solid Lab File ID: 7_83-084.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:30

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.30(g) Date Analyzed: 11/13/2020 15:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	ND		0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	121		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-65-20-2-3 Lab Sample ID: 480-177720-10

Matrix: Solid Lab File ID: 7_83-085.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:30

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.39(g) Date Analyzed: 11/13/2020 16:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-65-20-4-5 Lab Sample ID: 480-177720-11

Matrix: Solid Lab File ID: 7_83-086.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:30

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.78(g) Date Analyzed: 11/13/2020 16:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	ND		0.21	0.042
11097-69-1	PCB-1254	ND		0.21	0.10
11096-82-5	PCB-1260	ND		0.21	0.10
37324-23-5	PCB-1262	ND		0.21	0.10
11100-14-4	PCB-1268	ND		0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-77-20-0-1 Lab Sample ID: 480-177720-12

Matrix: Solid Lab File ID: 7_83-087.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:45

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.35(g) Date Analyzed: 11/13/2020 16:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 6.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	ND		0.23	0.044
11097-69-1	PCB-1254	3.3	J	0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-77-20-1-2 Lab Sample ID: 480-177720-13

Matrix: Solid Lab File ID: 7_83-088.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:45

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.25(g) Date Analyzed: 11/13/2020 16:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	ND		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-77-20-2-3 Lab Sample ID: 480-177720-14

Matrix: Solid Lab File ID: 7_83-089.D

Analysis Method: 8082A Date Collected: 11/02/2020 11:45

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.79(g) Date Analyzed: 11/13/2020 17:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.039
11104-28-2	PCB-1221	ND		0.20	0.039
11141-16-5	PCB-1232	ND		0.20	0.039
53469-21-9	PCB-1242	ND		0.20	0.039
12672-29-6	PCB-1248	0.30	J	0.20	0.039
11097-69-1	PCB-1254	ND		0.20	0.093
11096-82-5	PCB-1260	ND		0.20	0.093
37324-23-5	PCB-1262	ND		0.20	0.093
11100-14-4	PCB-1268	ND		0.20	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	80		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-76-20-0-1 Lab Sample ID: 480-177720-15

Matrix: Solid Lab File ID: 7_83-090.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:00

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.37(g) Date Analyzed: 11/13/2020 17:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-76-20-2-3 Lab Sample ID: 480-177720-16

Matrix: Solid Lab File ID: 7_83-091.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:00

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.20(g) Date Analyzed: 11/13/2020 17:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	4.3		0.25	0.048
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	122		60-154
2051-24-3	DCB Decachlorobiphenyl	121		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-74-20-0-1 Lab Sample ID: 480-177720-17

Matrix: Solid Lab File ID: 7_83-094.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:15

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.06(g) Date Analyzed: 11/13/2020 18:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-74-20-2-3 Lab Sample ID: 480-177720-18

Matrix: Solid Lab File ID: 7_83-138.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:15

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.03(g) Date Analyzed: 11/15/2020 19:18

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.4	0.28
11104-28-2	PCB-1221	ND		1.4	0.28
11141-16-5	PCB-1232	ND		1.4	0.28
53469-21-9	PCB-1242	ND		1.4	0.28
12672-29-6	PCB-1248	11		1.4	0.28
11097-69-1	PCB-1254	ND		1.4	0.68
11096-82-5	PCB-1260	ND		1.4	0.68
37324-23-5	PCB-1262	ND		1.4	0.68
11100-14-4	PCB-1268	ND		1.4	0.68

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-73-20-0-1 Lab Sample ID: 480-177720-19

Matrix: Solid Lab File ID: 7_83-096.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:40

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.57(g) Date Analyzed: 11/13/2020 19:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 22.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-73-20-2-3 Lab Sample ID: 480-177720-20

Matrix: Solid Lab File ID: 7_83-097.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:40

Extraction Method: 3550C Date Extracted: 11/07/2020 06:05

Sample wt/vol: 2.33(g) Date Analyzed: 11/13/2020 19:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 33.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.32	0.063
11104-28-2	PCB-1221	ND		0.32	0.063
11141-16-5	PCB-1232	ND		0.32	0.063
53469-21-9	PCB-1242	ND		0.32	0.063
12672-29-6	PCB-1248	3.6	J	0.32	0.063
11097-69-1	PCB-1254	ND		0.32	0.15
11096-82-5	PCB-1260	ND		0.32	0.15
37324-23-5	PCB-1262	ND		0.32	0.15
11100-14-4	PCB-1268	ND		0.32	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-73-20-3-4 Lab Sample ID: 480-177720-21

Matrix: Solid Lab File ID: 7_83-139.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:40

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.08(g) Date Analyzed: 11/15/2020 19:34

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 20.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.5	0.30
11104-28-2	PCB-1221	ND		1.5	0.30
11141-16-5	PCB-1232	ND		1.5	0.30
53469-21-9	PCB-1242	ND		1.5	0.30
12672-29-6	PCB-1248	18	J	1.5	0.30
11097-69-1	PCB-1254	ND		1.5	0.71
11096-82-5	PCB-1260	ND		1.5	0.71
37324-23-5	PCB-1262	ND		1.5	0.71
11100-14-4	PCB-1268	ND		1.5	0.71

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-72-20-0-1 Lab Sample ID: 480-177720-22

Matrix: Solid Lab File ID: 7_83-104.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:55

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.21(g) Date Analyzed: 11/13/2020 21:12

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	0.68		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	98		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-72-20-2-3 Lab Sample ID: 480-177720-23

Matrix: Solid Lab File ID: 7_83-140.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:55

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.49(g) Date Analyzed: 11/15/2020 19:50

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.5	0.49
11104-28-2	PCB-1221	ND		2.5	0.49
11141-16-5	PCB-1232	ND		2.5	0.49
53469-21-9	PCB-1242	ND		2.5	0.49
12672-29-6	PCB-1248	22		2.5	0.49
11097-69-1	PCB-1254	ND		2.5	1.2
11096-82-5	PCB-1260	ND		2.5	1.2
37324-23-5	PCB-1262	ND		2.5	1.2
11100-14-4	PCB-1268	ND		2.5	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-72-20-4-5 Lab Sample ID: 480-177720-24

Matrix: Solid Lab File ID: 7_83-106.D

Analysis Method: 8082A Date Collected: 11/02/2020 12:55

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.36(g) Date Analyzed: 11/13/2020 21:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	0.052	J	0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1
SDG No.: 480-177557
Client Sample ID: FD-110220-1 Lab Sample ID: 480-177720-25
Matrix: Solid Lab File ID: 7_83-107.D
Analysis Method: 8082A Date Collected: 11/02/2020 00:00
Extraction Method: 3550C Date Extracted: 11/07/2020 06:13
Sample wt/vol: 2.32(g) Date Analyzed: 11/13/2020 22:00
Con. Extract Vol.: 10(mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
% Moisture: 11.6 GPC Cleanup:(Y/N) N
Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	ND		0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-71-20-0-1 Lab Sample ID: 480-177720-26

Matrix: Solid Lab File ID: 7_83-102.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:10

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.15(g) Date Analyzed: 11/13/2020 20:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	0.46		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-71-20-1-2 Lab Sample ID: 480-177720-27

Matrix: Solid Lab File ID: 7_83-108.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:10

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.25(g) Date Analyzed: 11/13/2020 22:16

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	1.5	J	0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-71-20-2-3 Lab Sample ID: 480-177720-28

Matrix: Solid Lab File ID: 7_83-109.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:10

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.07(g) Date Analyzed: 11/13/2020 22:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.060
11104-28-2	PCB-1221	ND		0.31	0.060
11141-16-5	PCB-1232	ND		0.31	0.060
53469-21-9	PCB-1242	ND		0.31	0.060
12672-29-6	PCB-1248	4.8		0.31	0.060
11097-69-1	PCB-1254	ND		0.31	0.14
11096-82-5	PCB-1260	ND		0.31	0.14
37324-23-5	PCB-1262	ND		0.31	0.14
11100-14-4	PCB-1268	ND		0.31	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-69-20-0-1 Lab Sample ID: 480-177720-29

Matrix: Solid Lab File ID: 7_83-110.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.26(g) Date Analyzed: 11/13/2020 22:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	3.1		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-69-20-1-2 Lab Sample ID: 480-177720-30

Matrix: Solid Lab File ID: 7_83-141.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.24(g) Date Analyzed: 11/15/2020 20:06

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.6	0.50
11104-28-2	PCB-1221	ND		2.6	0.50
11141-16-5	PCB-1232	ND		2.6	0.50
53469-21-9	PCB-1242	ND		2.6	0.50
12672-29-6	PCB-1248	38		2.6	0.50
11097-69-1	PCB-1254	ND		2.6	1.2
11096-82-5	PCB-1260	ND		2.6	1.2
37324-23-5	PCB-1262	ND		2.6	1.2
11100-14-4	PCB-1268	ND		2.6	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	124		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-69-20-2-3 Lab Sample ID: 480-177720-31

Matrix: Solid Lab File ID: 7_83-142.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.45(g) Date Analyzed: 11/15/2020 20:21

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.47
11104-28-2	PCB-1221	ND		2.4	0.47
11141-16-5	PCB-1232	ND		2.4	0.47
53469-21-9	PCB-1242	ND		2.4	0.47
12672-29-6	PCB-1248	25		2.4	0.47
11097-69-1	PCB-1254	ND		2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-69-20-3-4 Lab Sample ID: 480-177720-32

Matrix: Solid Lab File ID: 7_83-113.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.47(g) Date Analyzed: 11/13/2020 23:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	8.1		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-70-20-0-1 Lab Sample ID: 480-177720-33

Matrix: Solid Lab File ID: 7_83-116.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:40

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.07(g) Date Analyzed: 11/14/2020 00:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 22.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.061
11104-28-2	PCB-1221	ND		0.31	0.061
11141-16-5	PCB-1232	ND		0.31	0.061
53469-21-9	PCB-1242	ND		0.31	0.061
12672-29-6	PCB-1248	2.2		0.31	0.061
11097-69-1	PCB-1254	ND		0.31	0.15
11096-82-5	PCB-1260	ND		0.31	0.15
37324-23-5	PCB-1262	ND		0.31	0.15
11100-14-4	PCB-1268	ND		0.31	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-70-20-3-4 Lab Sample ID: 480-177720-34

Matrix: Solid Lab File ID: 7_83-143.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:40

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.60(g) Date Analyzed: 11/15/2020 20:37

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.1	0.22
11104-28-2	PCB-1221	ND		1.1	0.22
11141-16-5	PCB-1232	ND		1.1	0.22
53469-21-9	PCB-1242	ND		1.1	0.22
12672-29-6	PCB-1248	12		1.1	0.22
11097-69-1	PCB-1254	ND		1.1	0.52
11096-82-5	PCB-1260	ND		1.1	0.52
37324-23-5	PCB-1262	ND		1.1	0.52
11100-14-4	PCB-1268	ND		1.1	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-70-20-5-6 Lab Sample ID: 480-177720-35

Matrix: Solid Lab File ID: 7_83-144.D

Analysis Method: 8082A Date Collected: 11/02/2020 13:40

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.01(g) Date Analyzed: 11/15/2020 20:53

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.7	0.53
11104-28-2	PCB-1221	ND		2.7	0.53
11141-16-5	PCB-1232	ND		2.7	0.53
53469-21-9	PCB-1242	ND		2.7	0.53
12672-29-6	PCB-1248	28		2.7	0.53
11097-69-1	PCB-1254	ND		2.7	1.3
11096-82-5	PCB-1260	ND		2.7	1.3
37324-23-5	PCB-1262	ND		2.7	1.3
11100-14-4	PCB-1268	ND		2.7	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	123		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-68-20-0-1 Lab Sample ID: 480-177720-36

Matrix: Solid Lab File ID: 7_83-145.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:00

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.44(g) Date Analyzed: 11/15/2020 21:09

Con. Extract Vol.: 10(mL) Dilution Factor: 100

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559184 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		25	4.9
11104-28-2	PCB-1221	ND		25	4.9
11141-16-5	PCB-1232	ND		25	4.9
53469-21-9	PCB-1242	ND		25	4.9
12672-29-6	PCB-1248	320		25	4.9
11097-69-1	PCB-1254	ND		25	12
11096-82-5	PCB-1260	ND		25	12
37324-23-5	PCB-1262	ND		25	12
11100-14-4	PCB-1268	ND		25	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	0	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-68-20-2-3 Lab Sample ID: 480-177720-37

Matrix: Solid Lab File ID: 7_83-120.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:00

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.49(g) Date Analyzed: 11/14/2020 01:27

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	3.7		0.25	0.048
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-68-20-3-4 Lab Sample ID: 480-177720-38

Matrix: Solid Lab File ID: 7_83-121.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:00

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.52(g) Date Analyzed: 11/14/2020 01:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	97		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-67-20-0-1 Lab Sample ID: 480-177720-39

Matrix: Solid Lab File ID: 7_83-122.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:15

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.30(g) Date Analyzed: 11/14/2020 01:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 2.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	0.46		0.22	0.043
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	95		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-67-20-3-4 Lab Sample ID: 480-177720-40

Matrix: Solid Lab File ID: 7_83-123.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:15

Extraction Method: 3550C Date Extracted: 11/07/2020 06:13

Sample wt/vol: 2.26(g) Date Analyzed: 11/14/2020 02:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558919 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.054
11104-28-2	PCB-1221	ND		0.27	0.054
11141-16-5	PCB-1232	ND		0.27	0.054
53469-21-9	PCB-1242	ND		0.27	0.054
12672-29-6	PCB-1248	ND		0.27	0.054
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	96		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-67-20-4-5 Lab Sample ID: 480-177720-41

Matrix: Solid Lab File ID: 6_077-216.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:15

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.23(g) Date Analyzed: 11/20/2020 07:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	1.1	J	0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-61-20-0-1 Lab Sample ID: 480-177720-42

Matrix: Solid Lab File ID: 6_077-217.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:35

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.21(g) Date Analyzed: 11/20/2020 08:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.054
11104-28-2	PCB-1221	ND		0.27	0.054
11141-16-5	PCB-1232	ND		0.27	0.054
53469-21-9	PCB-1242	ND		0.27	0.054
12672-29-6	PCB-1248	3.0	J	0.27	0.054
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	122		60-154
2051-24-3	DCB Decachlorobiphenyl	109		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-61-20-2-3 Lab Sample ID: 480-177720-43

Matrix: Solid Lab File ID: 6_077-218.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:35

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.21(g) Date Analyzed: 11/20/2020 08:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	1.4		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	108		60-154
2051-24-3	DCB Decachlorobiphenyl	90		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-61-20-5-6 Lab Sample ID: 480-177720-44

Matrix: Solid Lab File ID: 6_077-219.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:35

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.24(g) Date Analyzed: 11/20/2020 08:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	0.15	J	0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-61-20-6-7 Lab Sample ID: 480-177720-45

Matrix: Solid Lab File ID: 6_077-220.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:35

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.31(g) Date Analyzed: 11/20/2020 08:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	0.11	J	0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-60-20-0-1 Lab Sample ID: 480-177720-46

Matrix: Solid Lab File ID: 6_077-239.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:50

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.77(g) Date Analyzed: 11/20/2020 12:39

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.1	0.22
11104-28-2	PCB-1221	ND		1.1	0.22
11141-16-5	PCB-1232	ND		1.1	0.22
53469-21-9	PCB-1242	ND		1.1	0.22
12672-29-6	PCB-1248	17		1.1	0.22
11097-69-1	PCB-1254	ND		1.1	0.53
11096-82-5	PCB-1260	ND		1.1	0.53
37324-23-5	PCB-1262	ND		1.1	0.53
11100-14-4	PCB-1268	ND		1.1	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		60-154
2051-24-3	DCB Decachlorobiphenyl	123		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-60-20-3-4 Lab Sample ID: 480-177720-47

Matrix: Solid Lab File ID: 6_077-222.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:50

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.03(g) Date Analyzed: 11/20/2020 09:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 20.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.060
11104-28-2	PCB-1221	ND		0.31	0.060
11141-16-5	PCB-1232	ND		0.31	0.060
53469-21-9	PCB-1242	ND		0.31	0.060
12672-29-6	PCB-1248	4.2	J	0.31	0.060
11097-69-1	PCB-1254	ND		0.31	0.14
11096-82-5	PCB-1260	ND		0.31	0.14
37324-23-5	PCB-1262	ND		0.31	0.14
11100-14-4	PCB-1268	ND		0.31	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	121		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-60-20-5-6 Lab Sample ID: 480-177720-48

Matrix: Solid Lab File ID: 6_077-240.D

Analysis Method: 8082A Date Collected: 11/02/2020 14:50

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.68(g) Date Analyzed: 11/20/2020 12:51

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.1	0.42
11104-28-2	PCB-1221	ND		2.1	0.42
11141-16-5	PCB-1232	ND		2.1	0.42
53469-21-9	PCB-1242	ND		2.1	0.42
12672-29-6	PCB-1248	31		2.1	0.42
11097-69-1	PCB-1254	ND		2.1	1.0
11096-82-5	PCB-1260	ND		2.1	1.0
37324-23-5	PCB-1262	ND		2.1	1.0
11100-14-4	PCB-1268	ND		2.1	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-59-20-0-1 Lab Sample ID: 480-177720-49

Matrix: Solid Lab File ID: 6_077-224.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:10

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.43(g) Date Analyzed: 11/20/2020 09:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 24.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	3.2		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	117		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-59-20-3-4 Lab Sample ID: 480-177720-50

Matrix: Solid Lab File ID: 6_077-241.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:10

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.42(g) Date Analyzed: 11/20/2020 13:04

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.2	0.23
11104-28-2	PCB-1221	ND		1.2	0.23
11141-16-5	PCB-1232	ND		1.2	0.23
53469-21-9	PCB-1242	ND		1.2	0.23
12672-29-6	PCB-1248	12		1.2	0.23
11097-69-1	PCB-1254	ND		1.2	0.54
11096-82-5	PCB-1260	ND		1.2	0.54
37324-23-5	PCB-1262	ND		1.2	0.54
11100-14-4	PCB-1268	ND		1.2	0.54

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	135		60-154
2051-24-3	DCB Decachlorobiphenyl	134		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-59-20-4-5 Lab Sample ID: 480-177720-51

Matrix: Solid Lab File ID: 6_077-242.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:10

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.22(g) Date Analyzed: 11/20/2020 13:16

Con. Extract Vol.: 10(mL) Dilution Factor: 100

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		25	4.9
11104-28-2	PCB-1221	ND		25	4.9
11141-16-5	PCB-1232	ND		25	4.9
53469-21-9	PCB-1242	ND		25	4.9
12672-29-6	PCB-1248	420		25	4.9
11097-69-1	PCB-1254	ND		25	12
11096-82-5	PCB-1260	ND		25	12
37324-23-5	PCB-1262	ND		25	12
11100-14-4	PCB-1268	ND		25	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	198	X	60-154
2051-24-3	DCB Decachlorobiphenyl	97		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-58-20-0-1 Lab Sample ID: 480-177720-52

Matrix: Solid Lab File ID: 6_077-227.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.11(g) Date Analyzed: 11/20/2020 10:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	1.4	J	0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-58-20-2-3 Lab Sample ID: 480-177720-53

Matrix: Solid Lab File ID: 6_077-228.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.59(g) Date Analyzed: 11/20/2020 10:23

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.3	0.46
11104-28-2	PCB-1221	ND		2.3	0.46
11141-16-5	PCB-1232	ND		2.3	0.46
53469-21-9	PCB-1242	ND		2.3	0.46
12672-29-6	PCB-1248	5.7	J	2.3	0.46
11097-69-1	PCB-1254	ND		2.3	1.1
11096-82-5	PCB-1260	ND		2.3	1.1
37324-23-5	PCB-1262	ND		2.3	1.1
11100-14-4	PCB-1268	ND		2.3	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-58-20-4-5 Lab Sample ID: 480-177720-54

Matrix: Solid Lab File ID: 6_077-229.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:20

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.18(g) Date Analyzed: 11/20/2020 10:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 9.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	0.38		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1
SDG No.: 480-177557
Client Sample ID: FD-110220-2 Lab Sample ID: 480-177720-55
Matrix: Solid Lab File ID: 6_077-230.D
Analysis Method: 8082A Date Collected: 11/02/2020 00:00
Extraction Method: 3550C Date Extracted: 11/07/2020 06:26
Sample wt/vol: 2.41(g) Date Analyzed: 11/20/2020 10:48
Con. Extract Vol.: 10(mL) Dilution Factor: 10
Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
% Moisture: 11.9 GPC Cleanup:(Y/N) N
Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.46
11104-28-2	PCB-1221	ND		2.4	0.46
11141-16-5	PCB-1232	ND		2.4	0.46
53469-21-9	PCB-1242	ND		2.4	0.46
12672-29-6	PCB-1248	4.5	J	2.4	0.46
11097-69-1	PCB-1254	ND		2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	122		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-62-20-0-1 Lab Sample ID: 480-177720-56

Matrix: Solid Lab File ID: 6_077-231.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:30

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.50(g) Date Analyzed: 11/20/2020 11:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	1.7	J	0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	114		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-62-20-2-3 Lab Sample ID: 480-177720-57

Matrix: Solid Lab File ID: 6_077-232.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:30

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.56(g) Date Analyzed: 11/20/2020 11:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	7.7		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	127		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-62-20-4-5 Lab Sample ID: 480-177720-58

Matrix: Solid Lab File ID: 6_077-233.D

Analysis Method: 8082A Date Collected: 11/02/2020 15:30

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.52(g) Date Analyzed: 11/20/2020 11:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	0.85		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	131		60-154
2051-24-3	DCB Decachlorobiphenyl	121		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-57-20-0-4 Lab Sample ID: 480-177720-59

Matrix: Solid Lab File ID: 6_077-215.D

Analysis Method: 8082A Date Collected: 11/02/2020 08:50

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.03(g) Date Analyzed: 11/20/2020 07:43

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 11.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.8	0.54
11104-28-2	PCB-1221	ND		2.8	0.54
11141-16-5	PCB-1232	ND		2.8	0.54
53469-21-9	PCB-1242	ND		2.8	0.54
12672-29-6	PCB-1248	ND		2.8	0.54
11097-69-1	PCB-1254	ND		2.8	1.3
11096-82-5	PCB-1260	ND		2.8	1.3
37324-23-5	PCB-1262	ND		2.8	1.3
11100-14-4	PCB-1268	ND		2.8	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-57-20-4-5 Lab Sample ID: 480-177720-60

Matrix: Solid Lab File ID: 6_077-236.D

Analysis Method: 8082A Date Collected: 11/02/2020 08:50

Extraction Method: 3550C Date Extracted: 11/07/2020 06:26

Sample wt/vol: 2.14(g) Date Analyzed: 11/20/2020 12:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	ND		0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	140		60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-75-20-0-1 Lab Sample ID: 480-177720-61

Matrix: Solid Lab File ID: 7_82-328.D

Analysis Method: 8082A Date Collected: 11/02/2020 09:40

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.17(g) Date Analyzed: 11/12/2020 09:42

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.3	0.25
11104-28-2	PCB-1221	ND		1.3	0.25
11141-16-5	PCB-1232	ND		1.3	0.25
53469-21-9	PCB-1242	ND		1.3	0.25
12672-29-6	PCB-1248	ND		1.3	0.25
11097-69-1	PCB-1254	15		1.3	0.59
11096-82-5	PCB-1260	ND		1.3	0.59
37324-23-5	PCB-1262	ND		1.3	0.59
11100-14-4	PCB-1268	ND		1.3	0.59

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	211	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-75-20-3-4 Lab Sample ID: 480-177720-62

Matrix: Solid Lab File ID: 7_82-305.D

Analysis Method: 8082A Date Collected: 11/02/2020 09:40

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.54(g) Date Analyzed: 11/11/2020 23:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 23.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	0.060	J	0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	114		60-154
2051-24-3	DCB Decachlorobiphenyl	122		65-174

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-54-20-0.5-1 Lab Sample ID: 480-177557-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid Date Sampled: 11/03/2020 11:10

Reporting Basis: DRY Date Received: 11/03/2020 14:07

% Solids: 96.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4450	9.9	4.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	14.8	0.40	mg/Kg			1	6010C
7440-38-2	Arsenic	2.3	2.0	0.40	mg/Kg			1	6010C
7440-39-3	Barium	16.9	0.49	0.11	mg/Kg			1	6010C
7440-41-7	Beryllium	0.19	0.20	0.028	mg/Kg	J		1	6010C
7440-43-9	Cadmium	ND	0.20	0.030	mg/Kg			1	6010C
7440-70-2	Calcium	120000	98.8	6.5	mg/Kg			2	6010C
7440-47-3	Chromium	9.2	0.49	0.20	mg/Kg			1	6010C
7440-48-4	Cobalt	3.3	0.49	0.049	mg/Kg			1	6010C
7440-50-8	Copper	18.3	2.0	0.41	mg/Kg			2	6010C
7439-89-6	Iron	8670	9.9	3.5	mg/Kg			1	6010C
7439-92-1	Lead	22.0	0.99	0.24	mg/Kg			1	6010C
7439-95-4	Magnesium	27300	19.8	0.92	mg/Kg			1	6010C
7439-96-5	Manganese	290	0.20	0.032	mg/Kg			1	6010C
7440-02-0	Nickel	12.8	4.9	0.23	mg/Kg			1	6010C
7440-09-7	Potassium	1320	29.6	19.8	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.0	0.40	mg/Kg			1	6010C
7440-22-4	Silver	0.27	0.59	0.20	mg/Kg	J		1	6010C
7440-23-5	Sodium	135	138	12.8	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	5.9	0.30	mg/Kg			1	6010C
7440-62-2	Vanadium	9.8	0.49	0.11	mg/Kg			1	6010C
7440-66-6	Zinc	32.8	2.0	0.63	mg/Kg			1	6010C
7439-97-6	Hg	0.021	0.021	0.0086	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-31-20-0-1 | Lab Sample ID: 480-177558-2

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 09:40

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 93.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10400	10.3	4.5	mg/Kg			1	6010C
7440-36-0	Antimony	ND	30.8	0.82	mg/Kg			2	6010C
7440-38-2	Arsenic	6.1	4.1	0.82	mg/Kg			2	6010C
7440-39-3	Barium	85.0	0.51	0.11	mg/Kg			1	6010C
7440-41-7	Beryllium	0.77	0.21	0.029	mg/Kg			1	6010C
7440-43-9	Cadmium	1.6	0.41	0.062	mg/Kg			2	6010C
7440-70-2	Calcium	23500	51.3	3.4	mg/Kg			1	6010C
7440-47-3	Chromium	153	1.0	0.41	mg/Kg			2	6010C
7440-48-4	Cobalt	10	0.51	0.051	mg/Kg			1	6010C
7440-50-8	Copper	107	1.0	0.22	mg/Kg			1	6010C
7439-89-6	Iron	71200	20.5	7.2	mg/Kg			2	6010C
7439-92-1	Lead	132	2.1	0.49	mg/Kg			2	6010C
7439-95-4	Magnesium	6910	20.5	0.95	mg/Kg			1	6010C
7439-96-5	Manganese	1060	0.41	0.066	mg/Kg			2	6010C
7440-02-0	Nickel	56.1	10.3	0.47	mg/Kg			2	6010C
7440-09-7	Potassium	2080	30.8	20.5	mg/Kg			1	6010C
7782-49-2	Selenium	ND	8.2	0.82	mg/Kg			2	6010C
7440-22-4	Silver	ND	1.2	0.41	mg/Kg			2	6010C
7440-23-5	Sodium	131	144	13.3	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.2	0.31	mg/Kg			1	6010C
7440-62-2	Vanadium	20.8	1.0	0.23	mg/Kg			2	6010C
7440-66-6	Zinc	235	2.1	0.66	mg/Kg			1	6010C
7439-97-6	Hg	0.35	0.019	0.0078	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-30-20-0-1 | Lab Sample ID: 480-177558-4

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 09:45

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 82.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	12.4	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	ND	37.1	0.99	mg/Kg			2	6010C
7440-38-2	Arsenic	14.3	4.9	0.99	mg/Kg			2	6010C
7440-39-3	Barium	139	0.62	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	1.6	0.25	0.035	mg/Kg			1	6010C
7440-43-9	Cadmium	1.3	0.49	0.074	mg/Kg			2	6010C
7440-70-2	Calcium	41600	61.8	4.1	mg/Kg			1	6010C
7440-47-3	Chromium	220	1.2	0.49	mg/Kg			2	6010C
7440-48-4	Cobalt	14.3	0.62	0.062	mg/Kg			1	6010C
7440-50-8	Copper	163	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	102000	24.7	8.7	mg/Kg			2	6010C
7439-92-1	Lead	115	2.5	0.59	mg/Kg			2	6010C
7439-95-4	Magnesium	5080	24.7	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	2270	0.49	0.079	mg/Kg			2	6010C
7440-02-0	Nickel	111	12.4	0.57	mg/Kg			2	6010C
7440-09-7	Potassium	1560	37.1	24.7	mg/Kg			1	6010C
7782-49-2	Selenium	1.7	9.9	0.99	mg/Kg	J		2	6010C
7440-22-4	Silver	ND	1.5	0.49	mg/Kg			2	6010C
7440-23-5	Sodium	344	173	16.1	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.4	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	23.9	1.2	0.27	mg/Kg			2	6010C
7440-66-6	Zinc	229	2.5	0.79	mg/Kg			1	6010C
7439-97-6	Hg	0.16	0.025	0.010	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-29-20-0-1 | Lab Sample ID: 480-177558-6

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 10:00

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 83.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10100	12.2	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	ND	91.8	2.4	mg/Kg			5	6010C
7440-38-2	Arsenic	13.6	12.2	2.4	mg/Kg			5	6010C
7440-39-3	Barium	92.6	0.61	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.81	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	1.4	1.2	0.18	mg/Kg			5	6010C
7440-70-2	Calcium	71400	61.2	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	292	3.1	1.2	mg/Kg			5	6010C
7440-48-4	Cobalt	14.8	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	209	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	116000	61.2	21.4	mg/Kg			5	6010C
7439-92-1	Lead	139	6.1	1.5	mg/Kg			5	6010C
7439-95-4	Magnesium	18900	24.5	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	1380	1.2	0.20	mg/Kg			5	6010C
7440-02-0	Nickel	104	30.6	1.4	mg/Kg			5	6010C
7440-09-7	Potassium	2050	36.7	24.5	mg/Kg			1	6010C
7782-49-2	Selenium	ND	24.5	2.4	mg/Kg			5	6010C
7440-22-4	Silver	ND	3.7	1.2	mg/Kg			5	6010C
7440-23-5	Sodium	180	171	15.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.3	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	24.6	3.1	0.67	mg/Kg			5	6010C
7440-66-6	Zinc	222	2.4	0.78	mg/Kg			1	6010C
7439-97-6	Hg	0.13	0.024	0.0096	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-25-20-0-1 | Lab Sample ID: 480-177558-8

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 10:20

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 69.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	25900	14.3	6.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	21.5	0.57	mg/Kg			1	6010C
7440-38-2	Arsenic	7.0	2.9	0.57	mg/Kg			1	6010C
7440-39-3	Barium	125	0.72	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	1.1	0.29	0.040	mg/Kg			1	6010C
7440-43-9	Cadmium	0.98	0.29	0.043	mg/Kg			1	6010C
7440-70-2	Calcium	5720	71.5	4.7	mg/Kg			1	6010C
7440-47-3	Chromium	66.3	0.72	0.29	mg/Kg			1	6010C
7440-48-4	Cobalt	13.5	0.72	0.072	mg/Kg			1	6010C
7440-50-8	Copper	34.7	1.4	0.30	mg/Kg			1	6010C
7439-89-6	Iron	31100	14.3	5.0	mg/Kg			1	6010C
7439-92-1	Lead	59.7	1.4	0.34	mg/Kg			1	6010C
7439-95-4	Magnesium	4990	28.6	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	477	0.29	0.046	mg/Kg			1	6010C
7440-02-0	Nickel	34.9	7.2	0.33	mg/Kg			1	6010C
7440-09-7	Potassium	3820	42.9	28.6	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	5.7	0.57	mg/Kg	J		1	6010C
7440-22-4	Silver	0.34	0.86	0.29	mg/Kg	J		1	6010C
7440-23-5	Sodium	143	200	18.6	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	8.6	0.43	mg/Kg			1	6010C
7440-62-2	Vanadium	49.3	0.72	0.16	mg/Kg			1	6010C
7440-66-6	Zinc	163	2.9	0.92	mg/Kg			1	6010C
7439-97-6	Hg	0.10	0.028	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-24-20-0-1 | Lab Sample ID: 480-177558-10

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 10:50

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 68.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	25000	15.0	6.6	mg/Kg			1	6010C
7440-36-0	Antimony	ND	22.5	0.60	mg/Kg			1	6010C
7440-38-2	Arsenic	6.8	3.0	0.60	mg/Kg			1	6010C
7440-39-3	Barium	137	0.75	0.17	mg/Kg			1	6010C
7440-41-7	Beryllium	1.0	0.30	0.042	mg/Kg			1	6010C
7440-43-9	Cadmium	0.32	0.30	0.045	mg/Kg			1	6010C
7440-70-2	Calcium	24000	75.1	5.0	mg/Kg			1	6010C
7440-47-3	Chromium	37.7	0.75	0.30	mg/Kg			1	6010C
7440-48-4	Cobalt	11.3	0.75	0.075	mg/Kg			1	6010C
7440-50-8	Copper	27.5	1.5	0.32	mg/Kg			1	6010C
7439-89-6	Iron	30800	15.0	5.3	mg/Kg			1	6010C
7439-92-1	Lead	44.4	1.5	0.36	mg/Kg			1	6010C
7439-95-4	Magnesium	10000	30.0	1.4	mg/Kg			1	6010C
7439-96-5	Manganese	413	0.30	0.048	mg/Kg			1	6010C
7440-02-0	Nickel	30.9	7.5	0.35	mg/Kg			1	6010C
7440-09-7	Potassium	5200	45.1	30.0	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	6.0	0.60	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.90	0.30	mg/Kg			1	6010C
7440-23-5	Sodium	199	210	19.5	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	9.0	0.45	mg/Kg			1	6010C
7440-62-2	Vanadium	46.3	0.75	0.17	mg/Kg			1	6010C
7440-66-6	Zinc	152	3.0	0.96	mg/Kg			1	6010C
7439-97-6	Hg	0.15	0.026	0.010	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-23-20-0-1 | Lab Sample ID: 480-177558-12

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 10:55

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 69.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	19700	13.6	6.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	20.4	0.55	mg/Kg			1	6010C
7440-38-2	Arsenic	7.3	2.7	0.55	mg/Kg			1	6010C
7440-39-3	Barium	119	0.68	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.90	0.27	0.038	mg/Kg			1	6010C
7440-43-9	Cadmium	1.1	0.27	0.041	mg/Kg			1	6010C
7440-70-2	Calcium	10500	68.2	4.5	mg/Kg			1	6010C
7440-47-3	Chromium	57.7	0.68	0.27	mg/Kg			1	6010C
7440-48-4	Cobalt	10.4	0.68	0.068	mg/Kg			1	6010C
7440-50-8	Copper	31.8	1.4	0.29	mg/Kg			1	6010C
7439-89-6	Iron	24100	13.6	4.8	mg/Kg			1	6010C
7439-92-1	Lead	56.1	1.4	0.33	mg/Kg			1	6010C
7439-95-4	Magnesium	6610	27.3	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	439	0.27	0.044	mg/Kg			1	6010C
7440-02-0	Nickel	30.7	6.8	0.31	mg/Kg			1	6010C
7440-09-7	Potassium	3200	40.9	27.3	mg/Kg			1	6010C
7782-49-2	Selenium	2.5	5.5	0.55	mg/Kg	J		1	6010C
7440-22-4	Silver	0.52	0.82	0.27	mg/Kg	J		1	6010C
7440-23-5	Sodium	185	191	17.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	8.2	0.41	mg/Kg			1	6010C
7440-62-2	Vanadium	37.5	0.68	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	166	2.7	0.87	mg/Kg			1	6010C
7439-97-6	Hg	0.11	0.028	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-22-20-0-1 | Lab Sample ID: 480-177558-14

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 10:35

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 75.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	25300	13.8	6.1	mg/Kg			1	6010C
7440-36-0	Antimony	ND	20.7	0.55	mg/Kg			1	6010C
7440-38-2	Arsenic	10.7	2.8	0.55	mg/Kg			1	6010C
7440-39-3	Barium	147	0.69	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	1.3	0.28	0.039	mg/Kg			1	6010C
7440-43-9	Cadmium	0.50	0.28	0.041	mg/Kg			1	6010C
7440-70-2	Calcium	14300	68.9	4.5	mg/Kg			1	6010C
7440-47-3	Chromium	48.5	0.69	0.28	mg/Kg			1	6010C
7440-48-4	Cobalt	13.3	0.69	0.069	mg/Kg			1	6010C
7440-50-8	Copper	29.4	1.4	0.29	mg/Kg			1	6010C
7439-89-6	Iron	51300	13.8	4.8	mg/Kg			1	6010C
7439-92-1	Lead	59.3	1.4	0.33	mg/Kg			1	6010C
7439-95-4	Magnesium	6810	27.5	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	572	0.28	0.044	mg/Kg			1	6010C
7440-02-0	Nickel	36.0	6.9	0.32	mg/Kg			1	6010C
7440-09-7	Potassium	4300	41.3	27.5	mg/Kg			1	6010C
7782-49-2	Selenium	5.6	5.5	0.55	mg/Kg			1	6010C
7440-22-4	Silver	0.38	0.83	0.28	mg/Kg	J		1	6010C
7440-23-5	Sodium	141	193	17.9	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	8.3	0.41	mg/Kg			1	6010C
7440-62-2	Vanadium	53.1	0.69	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	139	2.8	0.88	mg/Kg			1	6010C
7439-97-6	Hg	0.12	0.026	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-28-20-0-1 | Lab Sample ID: 480-177558-16

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 11:10

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 76.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	21100	13.6	6.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	20.3	0.54	mg/Kg			1	6010C
7440-38-2	Arsenic	5.2	2.7	0.54	mg/Kg			1	6010C
7440-39-3	Barium	132	0.68	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	1.1	0.27	0.038	mg/Kg			1	6010C
7440-43-9	Cadmium	0.31	0.27	0.041	mg/Kg			1	6010C
7440-70-2	Calcium	43500	67.8	4.5	mg/Kg			1	6010C
7440-47-3	Chromium	46.5	0.68	0.27	mg/Kg			1	6010C
7440-48-4	Cobalt	10.8	0.68	0.068	mg/Kg			1	6010C
7440-50-8	Copper	27.3	1.4	0.28	mg/Kg			1	6010C
7439-89-6	Iron	26200	13.6	4.7	mg/Kg			1	6010C
7439-92-1	Lead	71.6	1.4	0.33	mg/Kg			1	6010C
7439-95-4	Magnesium	13900	27.1	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	848	0.27	0.043	mg/Kg			1	6010C
7440-02-0	Nickel	30.4	6.8	0.31	mg/Kg			1	6010C
7440-09-7	Potassium	5430	40.7	27.1	mg/Kg			1	6010C
7782-49-2	Selenium	2.1	5.4	0.54	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.81	0.27	mg/Kg			1	6010C
7440-23-5	Sodium	321	190	17.6	mg/Kg			1	6010C
7440-28-0	Thallium	ND	8.1	0.41	mg/Kg			1	6010C
7440-62-2	Vanadium	43.9	0.68	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	113	2.7	0.87	mg/Kg			1	6010C
7439-97-6	Hg	0.11	0.024	0.0096	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-27-20-0-1 | Lab Sample ID: 480-177558-18

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 11:15

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 66.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18500	14.3	6.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	21.5	0.57	mg/Kg			1	6010C
7440-38-2	Arsenic	6.8	2.9	0.57	mg/Kg			1	6010C
7440-39-3	Barium	103	0.72	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.83	0.29	0.040	mg/Kg			1	6010C
7440-43-9	Cadmium	0.48	0.29	0.043	mg/Kg			1	6010C
7440-70-2	Calcium	12400	71.7	4.7	mg/Kg			1	6010C
7440-47-3	Chromium	38.1	0.72	0.29	mg/Kg			1	6010C
7440-48-4	Cobalt	9.0	0.72	0.072	mg/Kg			1	6010C
7440-50-8	Copper	24.4	1.4	0.30	mg/Kg			1	6010C
7439-89-6	Iron	23500	14.3	5.0	mg/Kg			1	6010C
7439-92-1	Lead	97.5	1.4	0.34	mg/Kg			1	6010C
7439-95-4	Magnesium	4760	28.7	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	584	0.29	0.046	mg/Kg			1	6010C
7440-02-0	Nickel	23.5	7.2	0.33	mg/Kg			1	6010C
7440-09-7	Potassium	3050	43.0	28.7	mg/Kg			1	6010C
7782-49-2	Selenium	2.4	5.7	0.57	mg/Kg	J		1	6010C
7440-22-4	Silver	0.34	0.86	0.29	mg/Kg	J		1	6010C
7440-23-5	Sodium	195	201	18.6	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	8.6	0.43	mg/Kg			1	6010C
7440-62-2	Vanadium	34.9	0.72	0.16	mg/Kg			1	6010C
7440-66-6	Zinc	144	2.9	0.92	mg/Kg			1	6010C
7439-97-6	Hg	0.11	0.027	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-26-20-0-1 | Lab Sample ID: 480-177558-20

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177557-1

SDG ID.: 480-177557

Matrix: Solid | Date Sampled: 11/03/2020 11:25

Reporting Basis: DRY | Date Received: 11/03/2020 14:07

% Solids: 78.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	13.4	5.9	mg/Kg			1	6010C
7440-36-0	Antimony	ND	20.1	0.53	mg/Kg			1	6010C
7440-38-2	Arsenic	5.9	2.7	0.53	mg/Kg			1	6010C
7440-39-3	Barium	92.3	0.67	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.76	0.27	0.037	mg/Kg			1	6010C
7440-43-9	Cadmium	1.1	0.27	0.040	mg/Kg			1	6010C
7440-70-2	Calcium	20500	66.8	4.4	mg/Kg			1	6010C
7440-47-3	Chromium	61.0	0.67	0.27	mg/Kg			1	6010C
7440-48-4	Cobalt	6.8	0.67	0.067	mg/Kg			1	6010C
7440-50-8	Copper	46.6	1.3	0.28	mg/Kg			1	6010C
7439-89-6	Iron	28100	13.4	4.7	mg/Kg			1	6010C
7439-92-1	Lead	180	1.3	0.32	mg/Kg			1	6010C
7439-95-4	Magnesium	4530	26.7	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	847	0.27	0.043	mg/Kg			1	6010C
7440-02-0	Nickel	28.0	6.7	0.31	mg/Kg			1	6010C
7440-09-7	Potassium	1820	40.1	26.7	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	5.3	0.53	mg/Kg	J		1	6010C
7440-22-4	Silver	0.42	0.80	0.27	mg/Kg	J		1	6010C
7440-23-5	Sodium	306	187	17.4	mg/Kg			1	6010C
7440-28-0	Thallium	ND	8.0	0.40	mg/Kg			1	6010C
7440-62-2	Vanadium	26.8	0.67	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	224	2.7	0.86	mg/Kg			1	6010C
7439-97-6	Hg	0.13	0.024	0.0097	mg/Kg			1	7471B

SDG

J177721

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 Lab Sample ID: 480-177721-10

Matrix: Solid Lab File ID: P6010.D

Analysis Method: 8260C Date Collected: 11/04/2020 09:35

Sample wt/vol: 5.07(g) Date Analyzed: 11/09/2020 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 6.7 Level: (low/med) Low

Analysis Batch No.: 558037 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.3	0.38
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.3	0.86
79-00-5	1,1,2-Trichloroethane	ND		5.3	0.69
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2
75-34-3	1,1-Dichloroethane	ND		5.3	0.65
75-35-4	1,1-Dichloroethene	ND		5.3	0.65
120-82-1	1,2,4-Trichlorobenzene	ND		5.3	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.3	2.6
95-50-1	1,2-Dichlorobenzene	ND		5.3	0.41
107-06-2	1,2-Dichloroethane	ND		5.3	0.27
78-87-5	1,2-Dichloropropane	ND		5.3	2.6
541-73-1	1,3-Dichlorobenzene	ND		5.3	0.27
106-46-7	1,4-Dichlorobenzene	ND		5.3	0.74
78-93-3	2-Butanone (MEK)	11	J	26	1.9
591-78-6	2-Hexanone	ND		26	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		26	1.7
67-64-1	Acetone	73		26	4.5
71-43-2	Benzene	ND		5.3	0.26
75-27-4	Bromodichloromethane	ND		5.3	0.71
75-25-2	Bromoform	ND		5.3	2.6
74-83-9	Bromomethane	ND		5.3	0.48
75-15-0	Carbon disulfide	ND		5.3	2.6
56-23-5	Carbon tetrachloride	ND		5.3	0.51
108-90-7	Chlorobenzene	ND		5.3	0.70
124-48-1	Dibromochloromethane	ND		5.3	0.68
75-00-3	Chloroethane	ND		5.3	1.2
67-66-3	Chloroform	ND		5.3	0.33
74-87-3	Chloromethane	ND		5.3	0.32
156-59-2	cis-1,2-Dichloroethene	ND		5.3	0.68
10061-01-5	cis-1,3-Dichloropropene	ND		5.3	0.76
110-82-7	Cyclohexane	ND		5.3	0.74
75-71-8	Dichlorodifluoromethane	ND	UJ	5.3	0.44
100-41-4	Ethylbenzene	ND		5.3	0.36
106-93-4	1,2-Dibromoethane	ND		5.3	0.68
98-82-8	Isopropylbenzene	ND		5.3	0.80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 Lab Sample ID: 480-177721-10

Matrix: Solid Lab File ID: P6010.D

Analysis Method: 8260C Date Collected: 11/04/2020 09:35

Sample wt/vol: 5.07(g) Date Analyzed: 11/09/2020 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 6.7 Level: (low/med) Low

Analysis Batch No.: 558037 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		26	3.2
1634-04-4	Methyl tert-butyl ether	ND		5.3	0.52
108-87-2	Methylcyclohexane	ND		5.3	0.80
75-09-2	Methylene Chloride	ND		5.3	2.4
100-42-5	Styrene	ND		5.3	0.26
127-18-4	Tetrachloroethene	ND		5.3	0.71
108-88-3	Toluene	ND		5.3	0.40
156-60-5	trans-1,2-Dichloroethene	ND		5.3	0.55
10061-02-6	trans-1,3-Dichloropropene	ND		5.3	2.3
79-01-6	Trichloroethene	ND		5.3	1.2
75-69-4	Trichlorofluoromethane	ND		5.3	0.50
75-01-4	Vinyl chloride	ND		5.3	0.65
1330-20-7	Xylenes, Total	ND		11	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 Lab Sample ID: 480-177721-10

Matrix: Solid Lab File ID: P6010.D

Analysis Method: 8260C Date Collected: 11/04/2020 09:35

Sample wt/vol: 5.07(g) Date Analyzed: 11/09/2020 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 6.7 Level: (low/med) Low

Analysis Batch No.: 558037 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 20

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro	4.80	20	T J N	90%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-15-20-4-5 Lab Sample ID: 480-177721-18

Matrix: Solid Lab File ID: P6011.D

Analysis Method: 8260C Date Collected: 11/04/2020 12:20

Sample wt/vol: 5.16(g) Date Analyzed: 11/09/2020 05:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 6.6 Level: (low/med) Low

Analysis Batch No.: 558037 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.2	0.38
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.2	0.84
79-00-5	1,1,2-Trichloroethane	ND		5.2	0.67
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2
75-34-3	1,1-Dichloroethane	ND		5.2	0.63
75-35-4	1,1-Dichloroethene	ND		5.2	0.64
120-82-1	1,2,4-Trichlorobenzene	ND		5.2	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.2	2.6
95-50-1	1,2-Dichlorobenzene	ND		5.2	0.41
107-06-2	1,2-Dichloroethane	ND		5.2	0.26
78-87-5	1,2-Dichloropropane	ND		5.2	2.6
541-73-1	1,3-Dichlorobenzene	ND		5.2	0.27
106-46-7	1,4-Dichlorobenzene	ND		5.2	0.73
78-93-3	2-Butanone (MEK)	ND		26	1.9
591-78-6	2-Hexanone	ND		26	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		26	1.7
67-64-1	Acetone	11	J	26	4.4
71-43-2	Benzene	ND		5.2	0.25
75-27-4	Bromodichloromethane	ND		5.2	0.70
75-25-2	Bromoform	ND		5.2	2.6
74-83-9	Bromomethane	ND		5.2	0.47
75-15-0	Carbon disulfide	ND		5.2	2.6
56-23-5	Carbon tetrachloride	ND		5.2	0.50
108-90-7	Chlorobenzene	ND		5.2	0.68
124-48-1	Dibromochloromethane	ND		5.2	0.66
75-00-3	Chloroethane	ND		5.2	1.2
67-66-3	Chloroform	ND		5.2	0.32
74-87-3	Chloromethane	ND		5.2	0.31
156-59-2	cis-1,2-Dichloroethene	ND		5.2	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		5.2	0.75
110-82-7	Cyclohexane	ND		5.2	0.73
75-71-8	Dichlorodifluoromethane	ND	UJ	5.2	0.43
100-41-4	Ethylbenzene	ND		5.2	0.36
106-93-4	1,2-Dibromoethane	ND		5.2	0.67
98-82-8	Isopropylbenzene	ND		5.2	0.78

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-15-20-4-5 Lab Sample ID: 480-177721-18

Matrix: Solid Lab File ID: P6011.D

Analysis Method: 8260C Date Collected: 11/04/2020 12:20

Sample wt/vol: 5.16(g) Date Analyzed: 11/09/2020 05:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 6.6 Level: (low/med) Low

Analysis Batch No.: 558037 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		26	3.1
1634-04-4	Methyl tert-butyl ether	ND		5.2	0.51
108-87-2	Methylcyclohexane	ND		5.2	0.79
75-09-2	Methylene Chloride	23		5.2	2.4
100-42-5	Styrene	ND		5.2	0.26
127-18-4	Tetrachloroethene	ND		5.2	0.70
108-88-3	Toluene	ND		5.2	0.39
156-60-5	trans-1,2-Dichloroethene	ND		5.2	0.54
10061-02-6	trans-1,3-Dichloropropene	ND		5.2	2.3
79-01-6	Trichloroethene	ND		5.2	1.1
75-69-4	Trichlorofluoromethane	ND		5.2	0.49
75-01-4	Vinyl chloride	ND		5.2	0.63
1330-20-7	Xylenes, Total	ND		10	0.87

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		64-126
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-0-0.5 Lab Sample ID: 480-177721-1

Matrix: Solid Lab File ID: 7_82-308.D

Analysis Method: 8082A Date Collected: 11/03/2020 15:00

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.04(g) Date Analyzed: 11/12/2020 00:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	3.6	J	0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	94		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-1-2 Lab Sample ID: 480-177721-2

Matrix: Solid Lab File ID: 7_82-329.D

Analysis Method: 8082A Date Collected: 11/03/2020 15:00

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.47(g) Date Analyzed: 11/12/2020 09:58

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.1	0.22
11104-28-2	PCB-1221	ND		1.1	0.22
11141-16-5	PCB-1232	ND		1.1	0.22
53469-21-9	PCB-1242	ND		1.1	0.22
12672-29-6	PCB-1248	20		1.1	0.22
11097-69-1	PCB-1254	ND		1.1	0.54
11096-82-5	PCB-1260	ND		1.1	0.54
37324-23-5	PCB-1262	ND		1.1	0.54
11100-14-4	PCB-1268	ND		1.1	0.54

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	140		60-154
2051-24-3	DCB Decachlorobiphenyl	154		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-2-3 Lab Sample ID: 480-177721-3

Matrix: Solid Lab File ID: 7_82-330.D

Analysis Method: 8082A Date Collected: 11/03/2020 15:00

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.92(g) Date Analyzed: 11/12/2020 10:14

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.0	0.20
11104-28-2	PCB-1221	ND		1.0	0.20
11141-16-5	PCB-1232	ND		1.0	0.20
53469-21-9	PCB-1242	ND		1.0	0.20
12672-29-6	PCB-1248	19		1.0	0.20
11097-69-1	PCB-1254	ND		1.0	0.49
11096-82-5	PCB-1260	ND		1.0	0.49
37324-23-5	PCB-1262	ND		1.0	0.49
11100-14-4	PCB-1268	ND		1.0	0.49

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	163		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-50-20-0-1 Lab Sample ID: 480-177721-4

Matrix: Solid Lab File ID: 7_82-311.D

Analysis Method: 8082A Date Collected: 11/04/2020 08:10

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.35(g) Date Analyzed: 11/12/2020 00:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	0.22	J	0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-50-20-3.5-4.5 Lab Sample ID: 480-177721-5

Matrix: Solid Lab File ID: 7_82-312.D

Analysis Method: 8082A Date Collected: 11/04/2020 08:10

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.79(g) Date Analyzed: 11/12/2020 01:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	103		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-32-20-2.5-3.5 Lab Sample ID: 480-177721-6

Matrix: Solid Lab File ID: 7_82-313.D

Analysis Method: 8082A Date Collected: 11/04/2020 08:40

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.12(g) Date Analyzed: 11/12/2020 01:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 4.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	ND		0.25	0.048
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-32-20-4.5-5.5 Lab Sample ID: 480-177721-7

Matrix: Solid Lab File ID: 7_82-316.D

Analysis Method: 8082A Date Collected: 11/04/2020 08:41

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.01(g) Date Analyzed: 11/12/2020 02:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	0.25	J	0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	137		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-33-20-1-2 Lab Sample ID: 480-177721-8

Matrix: Solid Lab File ID: 7_82-317.D

Analysis Method: 8082A Date Collected: 11/04/2020 09:09

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.26(g) Date Analyzed: 11/12/2020 02:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-33-20-3-4 Lab Sample ID: 480-177721-9

Matrix: Solid Lab File ID: 7_82-318.D

Analysis Method: 8082A Date Collected: 11/04/2020 09:10

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.50(g) Date Analyzed: 11/12/2020 02:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 Lab Sample ID: 480-177721-10

Matrix: Solid Lab File ID: 7_82-319.D

Analysis Method: 8082A Date Collected: 11/04/2020 09:35

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.71(g) Date Analyzed: 11/12/2020 03:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.039
11104-28-2	PCB-1221	ND		0.20	0.039
11141-16-5	PCB-1232	ND		0.20	0.039
53469-21-9	PCB-1242	ND		0.20	0.039
12672-29-6	PCB-1248	ND		0.20	0.039
11097-69-1	PCB-1254	ND		0.20	0.093
11096-82-5	PCB-1260	ND		0.20	0.093
37324-23-5	PCB-1262	ND		0.20	0.093
11100-14-4	PCB-1268	ND		0.20	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	132		60-154
2051-24-3	DCB Decachlorobiphenyl	139		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-4-5 Lab Sample ID: 480-177721-11

Matrix: Solid Lab File ID: 7_82-320.D

Analysis Method: 8082A Date Collected: 11/04/2020 09:35

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.33(g) Date Analyzed: 11/12/2020 03:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 4.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	ND		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-0-1 Lab Sample ID: 480-177721-12

Matrix: Solid Lab File ID: 7_82-321.D

Analysis Method: 8082A Date Collected: 11/04/2020 09:55

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.03(g) Date Analyzed: 11/12/2020 03:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	0.67		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	143		60-154
2051-24-3	DCB Decachlorobiphenyl	150		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-3.5-4.5 Lab Sample ID: 480-177721-13

Matrix: Solid Lab File ID: 7_82-322.D

Analysis Method: 8082A Date Collected: 11/04/2020 09:55

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.51(g) Date Analyzed: 11/12/2020 03:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	ND		0.21	0.042
11097-69-1	PCB-1254	ND		0.21	0.099
11096-82-5	PCB-1260	ND		0.21	0.099
37324-23-5	PCB-1262	ND		0.21	0.099
11100-14-4	PCB-1268	ND		0.21	0.099

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	141		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-13-20-8-10 Lab Sample ID: 480-177721-14

Matrix: Solid Lab File ID: 7_82-323.D

Analysis Method: 8082A Date Collected: 11/04/2020 11:05

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.24(g) Date Analyzed: 11/12/2020 04:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	131		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-13-20-10-12 Lab Sample ID: 480-177721-15

Matrix: Solid Lab File ID: 7_82-324.D

Analysis Method: 8082A Date Collected: 11/04/2020 11:06

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.80(g) Date Analyzed: 11/12/2020 04:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.19	0.038
11104-28-2	PCB-1221	ND		0.19	0.038
11141-16-5	PCB-1232	ND		0.19	0.038
53469-21-9	PCB-1242	ND		0.19	0.038
12672-29-6	PCB-1248	ND		0.19	0.038
11097-69-1	PCB-1254	ND		0.19	0.091
11096-82-5	PCB-1260	ND		0.19	0.091
37324-23-5	PCB-1262	ND		0.19	0.091
11100-14-4	PCB-1268	ND		0.19	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	136		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-12-20-8.5-9.5 Lab Sample ID: 480-177721-16

Matrix: Solid Lab File ID: 7_82-325.D

Analysis Method: 8082A Date Collected: 11/04/2020 11:46

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.25(g) Date Analyzed: 11/12/2020 04:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.050
11104-28-2	PCB-1221	ND		0.25	0.050
11141-16-5	PCB-1232	ND		0.25	0.050
53469-21-9	PCB-1242	ND		0.25	0.050
12672-29-6	PCB-1248	ND		0.25	0.050
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	127		60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-15-20-0-2 Lab Sample ID: 480-177721-17

Matrix: Solid Lab File ID: 7_82-326.D

Analysis Method: 8082A Date Collected: 11/04/2020 12:18

Extraction Method: 3550C Date Extracted: 11/09/2020 15:09

Sample wt/vol: 2.49(g) Date Analyzed: 11/12/2020 04:53

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558544 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	2.0		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-15-20-4-5 Lab Sample ID: 480-177721-18

Matrix: Solid Lab File ID: 6_076-280.D

Analysis Method: 8082A Date Collected: 11/04/2020 12:20

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.68(g) Date Analyzed: 11/16/2020 20:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.039
11104-28-2	PCB-1221	ND		0.20	0.039
11141-16-5	PCB-1232	ND		0.20	0.039
53469-21-9	PCB-1242	0.073	J	0.20	0.039
12672-29-6	PCB-1248	ND		0.20	0.039
11097-69-1	PCB-1254	ND		0.20	0.094
11096-82-5	PCB-1260	ND		0.20	0.094
37324-23-5	PCB-1262	ND		0.20	0.094
11100-14-4	PCB-1268	ND		0.20	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-13-20-0-0.5 Lab Sample ID: 480-177721-19

Matrix: Solid Lab File ID: 6_077-011.D

Analysis Method: 8082A Date Collected: 11/04/2020 12:20

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.33(g) Date Analyzed: 11/17/2020 16:52

Con. Extract Vol.: 10(mL) Dilution Factor: 50

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559546 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		12	2.4
11104-28-2	PCB-1221	ND		12	2.4
11141-16-5	PCB-1232	ND		12	2.4
53469-21-9	PCB-1242	ND		12	2.4
12672-29-6	PCB-1248	140	J	12	2.4
11097-69-1	PCB-1254	50		12	5.8
11096-82-5	PCB-1260	ND		12	5.8
37324-23-5	PCB-1262	ND		12	5.8
11100-14-4	PCB-1268	ND		12	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	138		60-154
2051-24-3	DCB Decachlorobiphenyl	130		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-12-20-0-0.5 Lab Sample ID: 480-177721-20

Matrix: Solid Lab File ID: 6_076-282.D

Analysis Method: 8082A Date Collected: 11/04/2020 12:25

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.47(g) Date Analyzed: 11/16/2020 20:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	ND		0.21	0.21
11097-69-1	PCB-1254	ND		0.21	0.10
11096-82-5	PCB-1260	ND		0.21	0.10
37324-23-5	PCB-1262	ND		0.21	0.10
11100-14-4	PCB-1268	ND		0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		60-154
2051-24-3	DCB Decachlorobiphenyl	87		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-14-20-0-2 Lab Sample ID: 480-177721-21

Matrix: Solid Lab File ID: 6_076-283.D

Analysis Method: 8082A Date Collected: 11/04/2020 13:09

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.41(g) Date Analyzed: 11/16/2020 20:52

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-14-20-4-5 Lab Sample ID: 480-177721-22

Matrix: Solid Lab File ID: 6_076-284.D

Analysis Method: 8082A Date Collected: 11/04/2020 13:10

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.06(g) Date Analyzed: 11/16/2020 21:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	ND		0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-0.5 Lab Sample ID: 480-177721-23

Matrix: Solid Lab File ID: 6_076-285.D

Analysis Method: 8082A Date Collected: 11/04/2020 12:50

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.71(g) Date Analyzed: 11/16/2020 21:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.038
11104-28-2	PCB-1221	ND		0.20	0.038
11141-16-5	PCB-1232	ND		0.20	0.038
53469-21-9	PCB-1242	ND		0.20	0.038
12672-29-6	PCB-1248	0.65	J	0.20	0.038
11097-69-1	PCB-1254	ND		0.20	0.091
11096-82-5	PCB-1260	0.14	J	0.20	0.091
37324-23-5	PCB-1262	ND		0.20	0.091
11100-14-4	PCB-1268	ND		0.20	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-0.5 Lab Sample ID: 480-177721-25

Matrix: Solid Lab File ID: 6_076-286.D

Analysis Method: 8082A Date Collected: 11/04/2020 13:05

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.97(g) Date Analyzed: 11/16/2020 21:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.18	0.035
11104-28-2	PCB-1221	ND		0.18	0.035
11141-16-5	PCB-1232	ND		0.18	0.035
53469-21-9	PCB-1242	ND		0.18	0.035
12672-29-6	PCB-1248	0.18	J	0.18	0.035
11097-69-1	PCB-1254	ND		0.18	0.083
11096-82-5	PCB-1260	ND		0.18	0.083
37324-23-5	PCB-1262	ND		0.18	0.083
11100-14-4	PCB-1268	ND		0.18	0.083

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	95		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-0.5 Lab Sample ID: 480-177721-27

Matrix: Solid Lab File ID: 6_076-287.D

Analysis Method: 8082A Date Collected: 11/04/2020 13:10

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.48(g) Date Analyzed: 11/16/2020 21:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.044
11104-28-2	PCB-1221	ND		0.22	0.044
11141-16-5	PCB-1232	ND		0.22	0.044
53469-21-9	PCB-1242	ND		0.22	0.044
12672-29-6	PCB-1248	0.58	J	0.22	0.044
11097-69-1	PCB-1254	ND		0.22	0.11
11096-82-5	PCB-1260	0.17	J	0.22	0.11
37324-23-5	PCB-1262	ND		0.22	0.11
11100-14-4	PCB-1268	ND		0.22	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-02-20-0-0.5 Lab Sample ID: 480-177721-29

Matrix: Solid Lab File ID: 6_076-288.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:20

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.66(g) Date Analyzed: 11/16/2020 21:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	0.73	J	0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	0.16	J	0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	103		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-02-20-1-1.5 Lab Sample ID: 480-177721-30

Matrix: Solid Lab File ID: 6_076-289.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:20

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.19(g) Date Analyzed: 11/16/2020 22:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	0.97	J	0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	0.28		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-02-20-3-4 Lab Sample ID: 480-177721-31

Matrix: Solid Lab File ID: 6_076-290.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:20

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.58(g) Date Analyzed: 11/16/2020 22:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559306 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	7.1		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	1.4		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-02-20-5-6 Lab Sample ID: 480-177721-32

Matrix: Solid Lab File ID: 6_077-012.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:20

Extraction Method: 3550C Date Extracted: 11/10/2020 15:44

Sample wt/vol: 2.75(g) Date Analyzed: 11/17/2020 17:05

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559546 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.96	0.19
11104-28-2	PCB-1221	ND		0.96	0.19
11141-16-5	PCB-1232	ND		0.96	0.19
53469-21-9	PCB-1242	ND		0.96	0.19
12672-29-6	PCB-1248	12		0.96	0.19
11097-69-1	PCB-1254	ND		0.96	0.45
11096-82-5	PCB-1260	ND		0.96	0.45
37324-23-5	PCB-1262	ND		0.96	0.45
11100-14-4	PCB-1268	ND		0.96	0.45

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-16-20-2-4 Lab Sample ID: 480-177826-1

Matrix: Solid Lab File ID: 7_83-287.D

Analysis Method: 8082A Date Collected: 11/05/2020 12:40

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.14(g) Date Analyzed: 11/19/2020 06:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	ND		0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	140		60-154
2051-24-3	DCB Decachlorobiphenyl	142		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-16-20-4-5 Lab Sample ID: 480-177826-2

Matrix: Solid Lab File ID: 7_83-288.D

Analysis Method: 8082A Date Collected: 11/05/2020 12:40

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.10(g) Date Analyzed: 11/19/2020 07:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	ND		0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	139		60-154
2051-24-3	DCB Decachlorobiphenyl	147		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-16-20-6-8 Lab Sample ID: 480-177826-3

Matrix: Solid Lab File ID: 7_83-289.D

Analysis Method: 8082A Date Collected: 11/05/2020 12:40

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.05(g) Date Analyzed: 11/19/2020 07:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	ND		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	156	X	60-154
2051-24-3	DCB Decachlorobiphenyl	160		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-36-20-0-0.5 Lab Sample ID: 480-177826-4

Matrix: Solid Lab File ID: 7_83-286.D

Analysis Method: 8082A Date Collected: 11/05/2020 12:15

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.48(g) Date Analyzed: 11/19/2020 06:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	ND		0.22	0.043
11097-69-1	PCB-1254	0.32		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	140		65-174

FORM I

PCBS ORGANICS ANALYSIS DATA SHEET

FD OF SF-36-20 0-0.5

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: FD-110520-2 Lab Sample ID: 480-177826-5

Matrix: Solid Lab File ID: 7_83-290.D

Analysis Method: 8082A Date Collected: 11/05/2020 00:00

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.23(g) Date Analyzed: 11/19/2020 07:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	ND		0.25	0.048
11097-69-1	PCB-1254	0.30		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	151		60-154
2051-24-3	DCB Decachlorobiphenyl	159		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-34-20-0-0.5 Lab Sample ID: 480-177826-8

Matrix: Solid Lab File ID: 6_077-149.D

Analysis Method: 8082A Date Collected: 11/05/2020 12:30

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.71(g) Date Analyzed: 11/19/2020 14:29

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559807 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.1	0.40
11104-28-2	PCB-1221	ND		2.1	0.40
11141-16-5	PCB-1232	ND		2.1	0.40
53469-21-9	PCB-1242	ND		2.1	0.40
12672-29-6	PCB-1248	14	J	2.1	0.40
11097-69-1	PCB-1254	ND		2.1	0.96
11096-82-5	PCB-1260	3.7	J	2.1	0.96
37324-23-5	PCB-1262	ND		2.1	0.96
11100-14-4	PCB-1268	ND		2.1	0.96

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	145		60-154
2051-24-3	DCB Decachlorobiphenyl	145		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-17-20-1-1.5 Lab Sample ID: 480-177826-10

Matrix: Solid Lab File ID: 7_83-292.D

Analysis Method: 8082A Date Collected: 11/05/2020 13:05

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.11(g) Date Analyzed: 11/19/2020 08:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	ND		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	160	X	60-154
2051-24-3	DCB Decachlorobiphenyl	169		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-17-20-2-2.5 Lab Sample ID: 480-177826-11

Matrix: Solid Lab File ID: 7_84-019.D

Analysis Method: 8082A Date Collected: 11/05/2020 13:05

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.20(g) Date Analyzed: 11/19/2020 22:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-17-20-4-5 Lab Sample ID: 480-177826-12

Matrix: Solid Lab File ID: 7_83-294.D

Analysis Method: 8082A Date Collected: 11/05/2020 13:10

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.12(g) Date Analyzed: 11/19/2020 08:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559810 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	ND		0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	159	X	60-154
2051-24-3	DCB Decachlorobiphenyl	166		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-0.8-1.3 Lab Sample ID: 480-177826-13

Matrix: Solid Lab File ID: 7_84-020.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:45

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.24(g) Date Analyzed: 11/19/2020 23:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 22.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-1.8-2.3 Lab Sample ID: 480-177826-14

Matrix: Solid Lab File ID: 7_84-021.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:45

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.24(g) Date Analyzed: 11/19/2020 23:16

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-3.8.4.8 Lab Sample ID: 480-177826-15

Matrix: Solid Lab File ID: 7_84-022.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:45

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.02(g) Date Analyzed: 11/19/2020 23:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	ND		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-5.8-6.8 Lab Sample ID: 480-177826-16

Matrix: Solid Lab File ID: 7_84-023.D

Analysis Method: 8082A Date Collected: 11/04/2020 14:45

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.75(g) Date Analyzed: 11/19/2020 23:47

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	ND		0.22	0.043
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-0-0.5 Lab Sample ID: 480-177826-17

Matrix: Solid Lab File ID: 7_84-024.D

Analysis Method: 8082A Date Collected: 11/04/2020 15:15

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.26(g) Date Analyzed: 11/20/2020 00:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	0.13	J	0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-1-1.5 Lab Sample ID: 480-177826-18

Matrix: Solid Lab File ID: 7_84-025.D

Analysis Method: 8082A Date Collected: 11/04/2020 15:15

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.15(g) Date Analyzed: 11/20/2020 00:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	114		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-2-3 Lab Sample ID: 480-177826-19

Matrix: Solid Lab File ID: 6_077-150.D

Analysis Method: 8082A Date Collected: 11/04/2020 15:15

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.06(g) Date Analyzed: 11/19/2020 14:42

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 559807 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.4	0.27
11104-28-2	PCB-1221	ND		1.4	0.27
11141-16-5	PCB-1232	ND		1.4	0.27
53469-21-9	PCB-1242	ND		1.4	0.27
12672-29-6	PCB-1248	8.0	J	1.4	0.27
11097-69-1	PCB-1254	ND		1.4	0.66
11096-82-5	PCB-1260	ND		1.4	0.66
37324-23-5	PCB-1262	ND		1.4	0.66
11100-14-4	PCB-1268	ND		1.4	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	135		60-154
2051-24-3	DCB Decachlorobiphenyl	150		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-4-5 Lab Sample ID: 480-177826-20

Matrix: Solid Lab File ID: 7_84-026.D

Analysis Method: 8082A Date Collected: 11/04/2020 15:15

Extraction Method: 3550C Date Extracted: 11/14/2020 16:18

Sample wt/vol: 2.39(g) Date Analyzed: 11/20/2020 00:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	ND		0.25	0.25
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-6-7 Lab Sample ID: 480-177826-21

Matrix: Solid Lab File ID: 7_84-086.D

Analysis Method: 8082A Date Collected: 11/04/2020 15:15

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.24(g) Date Analyzed: 11/20/2020 16:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	0.17	J	0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		60-154
2051-24-3	DCB Decachlorobiphenyl	86		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-06-20-0-0.5 Lab Sample ID: 480-177826-22

Matrix: Solid Lab File ID: 7_84-087.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:05

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.05(g) Date Analyzed: 11/20/2020 17:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 3.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.050
11104-28-2	PCB-1221	ND		0.25	0.050
11141-16-5	PCB-1232	ND		0.25	0.050
53469-21-9	PCB-1242	ND		0.25	0.050
12672-29-6	PCB-1248	0.056	J	0.25	0.050
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	103		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-06-20-2-3 Lab Sample ID: 480-177826-24

Matrix: Solid Lab File ID: 7_84-088.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:05

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.05(g) Date Analyzed: 11/20/2020 17:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	0.90		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	91		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-06-20-4-5 Lab Sample ID: 480-177826-25

Matrix: Solid Lab File ID: 7_84-089.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:05

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.17(g) Date Analyzed: 11/20/2020 17:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.054
11104-28-2	PCB-1221	ND		0.27	0.054
11141-16-5	PCB-1232	ND		0.27	0.054
53469-21-9	PCB-1242	ND		0.27	0.054
12672-29-6	PCB-1248	ND		0.27	0.054
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-06-20-6-7 Lab Sample ID: 480-177826-26

Matrix: Solid Lab File ID: 7_84-085.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:05

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.25(g) Date Analyzed: 11/20/2020 16:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

FD OF SB-06-20 4-5

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: FD-110520-1 Lab Sample ID: 480-177826-27

Matrix: Solid Lab File ID: 7_84-090.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:00

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.06(g) Date Analyzed: 11/20/2020 17:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-0.8-1.3 Lab Sample ID: 480-177826-28

Matrix: Solid Lab File ID: 7_84-091.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.09(g) Date Analyzed: 11/20/2020 18:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	1.2		0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	87		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-1.8-2.3 Lab Sample ID: 480-177826-29

Matrix: Solid Lab File ID: 7_84-092.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.37(g) Date Analyzed: 11/20/2020 18:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	0.98		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	0.89		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	65		60-154
2051-24-3	DCB Decachlorobiphenyl	64	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-2.8-3.8 Lab Sample ID: 480-177826-30

Matrix: Solid Lab File ID: 7_84-093.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.11(g) Date Analyzed: 11/20/2020 18:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	0.24	J	0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	0.26	J	0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		60-154
2051-24-3	DCB Decachlorobiphenyl	67		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-4.8-5.8 Lab Sample ID: 480-177826-31

Matrix: Solid Lab File ID: 7_84-094.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.06(g) Date Analyzed: 11/20/2020 18:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	1.4	J	0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	90		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-6.8-7.8 Lab Sample ID: 480-177826-32

Matrix: Solid Lab File ID: 7_84-095.D

Analysis Method: 8082A Date Collected: 11/05/2020 08:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.41(g) Date Analyzed: 11/20/2020 19:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	1.3		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03-20-0.8-1.3 Lab Sample ID: 480-177826-33

Matrix: Solid Lab File ID: 7_84-096.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:22

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.11(g) Date Analyzed: 11/20/2020 19:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 2.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	ND		0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03-20-2-3 Lab Sample ID: 480-177826-34

Matrix: Solid Lab File ID: 7_84-097.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:22

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.05(g) Date Analyzed: 11/20/2020 19:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	1.1	J	0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	1.9		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03-20-3-4 Lab Sample ID: 480-177826-35

Matrix: Solid Lab File ID: 7_84-100.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:22

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.10(g) Date Analyzed: 11/20/2020 20:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	0.59	J	0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	0.69		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	90		60-154
2051-24-3	DCB Decachlorobiphenyl	98		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-0-0.5 Lab Sample ID: 480-177826-36

Matrix: Solid Lab File ID: 7_84-101.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:54

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.21(g) Date Analyzed: 11/20/2020 20:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	0.11	J	0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	103		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-1-1.5 Lab Sample ID: 480-177826-37

Matrix: Solid Lab File ID: 7_84-102.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:54

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.24(g) Date Analyzed: 11/20/2020 21:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.056
11104-28-2	PCB-1221	ND		0.28	0.056
11141-16-5	PCB-1232	ND		0.28	0.056
53469-21-9	PCB-1242	ND		0.28	0.056
12672-29-6	PCB-1248	0.44	J	0.28	0.056
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	0.18	J	0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	103		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-2-3 Lab Sample ID: 480-177826-38

Matrix: Solid Lab File ID: 7_84-103.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:54

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.13(g) Date Analyzed: 11/20/2020 21:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	0.59		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	0.12	J	0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-4-5 Lab Sample ID: 480-177826-39

Matrix: Solid Lab File ID: 7_84-104.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.33(g) Date Analyzed: 11/20/2020 21:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	123		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-6-7 Lab Sample ID: 480-177826-40

Matrix: Solid Lab File ID: 7_84-105.D

Analysis Method: 8082A Date Collected: 11/05/2020 09:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.31(g) Date Analyzed: 11/20/2020 21:53

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	0.059	J	0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-07-20-0-4 Lab Sample ID: 480-177826-41

Matrix: Solid Lab File ID: 7_84-106.D

Analysis Method: 8082A Date Collected: 11/05/2020 10:35

Extraction Method: 3550C Date Extracted: 11/15/2020 08:43

Sample wt/vol: 2.11(g) Date Analyzed: 11/20/2020 22:08

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		5.8	1.1
11104-28-2	PCB-1221	ND		5.8	1.1
11141-16-5	PCB-1232	ND		5.8	1.1
53469-21-9	PCB-1242	ND		5.8	1.1
12672-29-6	PCB-1248	ND		5.8	1.1
11097-69-1	PCB-1254	ND		5.8	2.7
11096-82-5	PCB-1260	ND		5.8	2.7
37324-23-5	PCB-1262	ND		5.8	2.7
11100-14-4	PCB-1268	ND		5.8	2.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	89		60-154
2051-24-3	DCB Decachlorobiphenyl	81		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-08-20-0-1 Lab Sample ID: 480-177826-42

Matrix: Solid Lab File ID: 6_077-247.D

Analysis Method: 8082A Date Collected: 11/05/2020 10:59

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.05(g) Date Analyzed: 11/20/2020 14:18

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	ND		0.28	0.054
11097-69-1	PCB-1254	0.25	J	0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	95		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-08-20-2-3 Lab Sample ID: 480-177826-43

Matrix: Solid Lab File ID: 6_077-248.D

Analysis Method: 8082A Date Collected: 11/05/2020 11:00

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.05(g) Date Analyzed: 11/20/2020 14:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	ND		0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		60-154
2051-24-3	DCB Decachlorobiphenyl	52	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-09-20-0.6-4 Lab Sample ID: 480-177826-44

Matrix: Solid Lab File ID: 6_077-249.D

Analysis Method: 8082A Date Collected: 11/05/2020 11:14

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.51(g) Date Analyzed: 11/20/2020 14:43

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	ND		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-10-20-1-1.5 Lab Sample ID: 480-177826-45

Matrix: Solid Lab File ID: 6_077-250.D

Analysis Method: 8082A Date Collected: 11/05/2020 11:35

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.56(g) Date Analyzed: 11/20/2020 14:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	2.3		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		60-154
2051-24-3	DCB Decachlorobiphenyl	74		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-10-20-2-2.5 Lab Sample ID: 480-177826-46

Matrix: Solid Lab File ID: 6_077-251.D

Analysis Method: 8082A Date Collected: 11/05/2020 11:35

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.24(g) Date Analyzed: 11/20/2020 15:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.056
11104-28-2	PCB-1221	ND		0.28	0.056
11141-16-5	PCB-1232	ND		0.28	0.056
53469-21-9	PCB-1242	0.32	J	0.28	0.056
12672-29-6	PCB-1248	ND		0.28	0.056
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-10-20-4-5 Lab Sample ID: 480-177826-47

Matrix: Solid Lab File ID: 6_077-252.D

Analysis Method: 8082A Date Collected: 11/05/2020 11:35

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.33(g) Date Analyzed: 11/20/2020 15:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-11-20-1-5 Lab Sample ID: 480-177826-48

Matrix: Solid Lab File ID: 6_077-253.D

Analysis Method: 8082A Date Collected: 11/05/2020 11:52

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.10(g) Date Analyzed: 11/20/2020 15:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	0.24	J	0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-17-20-6-8 Lab Sample ID: 480-177826-49

Matrix: Solid Lab File ID: 6_077-254.D

Analysis Method: 8082A Date Collected: 11/05/2020 13:10

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.26(g) Date Analyzed: 11/20/2020 15:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	132		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-18-20-0-3.7 Lab Sample ID: 480-177826-50

Matrix: Solid Lab File ID: 6_077-255.D

Analysis Method: 8082A Date Collected: 11/05/2020 13:35

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.35(g) Date Analyzed: 11/20/2020 15:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 22.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.054
11104-28-2	PCB-1221	ND		0.27	0.054
11141-16-5	PCB-1232	ND		0.27	0.054
53469-21-9	PCB-1242	ND		0.27	0.054
12672-29-6	PCB-1248	ND		0.27	0.054
11097-69-1	PCB-1254	4.6		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	39	X	60-154
2051-24-3	DCB Decachlorobiphenyl	46	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-19-20-1-1.5 Lab Sample ID: 480-177826-51

Matrix: Solid Lab File ID: 6_077-258.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:10

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.25(g) Date Analyzed: 11/20/2020 16:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 9.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	ND		0.25	0.048
11097-69-1	PCB-1254	0.16	J	0.25	0.11
11096-82-5	PCB-1260	ND		0.25	0.11
37324-23-5	PCB-1262	ND		0.25	0.11
11100-14-4	PCB-1268	ND		0.25	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	103		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-19-20-2-2.5 Lab Sample ID: 480-177826-52

Matrix: Solid Lab File ID: 6_077-259.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:10

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.11(g) Date Analyzed: 11/20/2020 16:47

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.058
11104-28-2	PCB-1221	ND		0.29	0.058
11141-16-5	PCB-1232	ND		0.29	0.058
53469-21-9	PCB-1242	ND		0.29	0.058
12672-29-6	PCB-1248	ND		0.29	0.058
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-19-20-4-5 Lab Sample ID: 480-177826-53

Matrix: Solid Lab File ID: 6_077-260.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:10

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.30(g) Date Analyzed: 11/20/2020 16:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-44-20-0-0.5 Lab Sample ID: 480-177832-1

Matrix: Solid Lab File ID: 6_077-291.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.35(g) Date Analyzed: 11/23/2020 16:19

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560553 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		4.8	0.93
11104-28-2	PCB-1221	ND		4.8	0.93
11141-16-5	PCB-1232	ND		4.8	0.93
53469-21-9	PCB-1242	ND		4.8	0.93
12672-29-6	PCB-1248	63		4.8	0.93
11097-69-1	PCB-1254	ND		4.8	2.2
11096-82-5	PCB-1260	ND		4.8	2.2
37324-23-5	PCB-1262	ND		4.8	2.2
11100-14-4	PCB-1268	ND		4.8	2.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-44-20-4-5 Lab Sample ID: 480-177832-2

Matrix: Solid Lab File ID: 6_077-262.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.24(g) Date Analyzed: 11/20/2020 17:24

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	0.38	J	0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-44-20-8-9 Lab Sample ID: 480-177832-3

Matrix: Solid Lab File ID: 6_077-263.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.39(g) Date Analyzed: 11/20/2020 17:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	0.61		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	134		60-154
2051-24-3	DCB Decachlorobiphenyl	117		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-31-20-0-0.5 Lab Sample ID: 480-177832-4

Matrix: Solid Lab File ID: 6_077-264.D

Analysis Method: 8082A Date Collected: 11/06/2020 10:40

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.11(g) Date Analyzed: 11/20/2020 17:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 6.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.050
11104-28-2	PCB-1221	ND		0.25	0.050
11141-16-5	PCB-1232	ND		0.25	0.050
53469-21-9	PCB-1242	ND		0.25	0.050
12672-29-6	PCB-1248	ND		0.25	0.050
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	132		60-154
2051-24-3	DCB Decachlorobiphenyl	114		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-31-20-1-1.5 Lab Sample ID: 480-177832-5

Matrix: Solid Lab File ID: 6_077-265.D

Analysis Method: 8082A Date Collected: 11/06/2020 10:40

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.37(g) Date Analyzed: 11/20/2020 18:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 10.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	3.9	J	0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	103		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-31-20-4-5 Lab Sample ID: 480-177832-6

Matrix: Solid Lab File ID: 6_077-266.D

Analysis Method: 8082A Date Collected: 11/06/2020 10:41

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.19(g) Date Analyzed: 11/20/2020 18:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		60-154
2051-24-3	DCB Decachlorobiphenyl	291	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-30-20-0-0.5 Lab Sample ID: 480-177832-7

Matrix: Solid Lab File ID: 6_077-267.D

Analysis Method: 8082A Date Collected: 11/06/2020 11:05

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.20(g) Date Analyzed: 11/20/2020 18:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 9.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	385	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-30-20-2-4 Lab Sample ID: 480-177832-8

Matrix: Solid Lab File ID: 6_077-268.D

Analysis Method: 8082A Date Collected: 11/06/2020 11:07

Extraction Method: 3550C Date Extracted: 11/15/2020 08:52

Sample wt/vol: 2.19(g) Date Analyzed: 11/20/2020 18:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 11.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	215	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-30-20-5-6 Lab Sample ID: 480-177832-9

Matrix: Solid Lab File ID: 7_84-112.D

Analysis Method: 8082A Date Collected: 11/06/2020 11:10

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.10(g) Date Analyzed: 11/20/2020 23:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	ND		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	111		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-29-20-0-0.5 Lab Sample ID: 480-177832-10

Matrix: Solid Lab File ID: 7_84-113.D

Analysis Method: 8082A Date Collected: 11/06/2020 11:36

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.09(g) Date Analyzed: 11/21/2020 00:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	1.6		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		60-154
2051-24-3	DCB Decachlorobiphenyl	95		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-29-20-1-1.5 Lab Sample ID: 480-177832-11

Matrix: Solid Lab File ID: 7_84-157.D

Analysis Method: 8082A Date Collected: 11/06/2020 11:37

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.15(g) Date Analyzed: 11/23/2020 18:47

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		5.5	1.1
11104-28-2	PCB-1221	ND		5.5	1.1
11141-16-5	PCB-1232	ND		5.5	1.1
53469-21-9	PCB-1242	ND		5.5	1.1
12672-29-6	PCB-1248	53		5.5	1.1
11097-69-1	PCB-1254	ND		5.5	2.6
11096-82-5	PCB-1260	ND		5.5	2.6
37324-23-5	PCB-1262	ND		5.5	2.6
11100-14-4	PCB-1268	ND		5.5	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		60-154
2051-24-3	DCB Decachlorobiphenyl	64	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-29-20-3-4 Lab Sample ID: 480-177832-12

Matrix: Solid Lab File ID: 7_84-115.D

Analysis Method: 8082A Date Collected: 11/06/2020 11:40

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.44(g) Date Analyzed: 11/21/2020 00:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 27.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	0.11	J	0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-21-20-1-1.5 Lab Sample ID: 480-177832-13

Matrix: Solid Lab File ID: 7_84-116.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:40

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.20(g) Date Analyzed: 11/21/2020 00:47

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	ND		0.25	0.048
11097-69-1	PCB-1254	ND		0.25	0.11
11096-82-5	PCB-1260	ND		0.25	0.11
37324-23-5	PCB-1262	ND		0.25	0.11
11100-14-4	PCB-1268	ND		0.25	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-21-20-2-2.5 Lab Sample ID: 480-177832-14

Matrix: Solid Lab File ID: 7_84-117.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:40

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.31(g) Date Analyzed: 11/21/2020 01:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 25.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	117		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-21-20-4-5 Lab Sample ID: 480-177832-15

Matrix: Solid Lab File ID: 7_84-118.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:40

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.05(g) Date Analyzed: 11/21/2020 01:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.061
11104-28-2	PCB-1221	ND		0.31	0.061
11141-16-5	PCB-1232	ND		0.31	0.061
53469-21-9	PCB-1242	ND		0.31	0.061
12672-29-6	PCB-1248	ND		0.31	0.061
11097-69-1	PCB-1254	ND		0.31	0.15
11096-82-5	PCB-1260	ND		0.31	0.15
37324-23-5	PCB-1262	ND		0.31	0.15
11100-14-4	PCB-1268	ND		0.31	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	122		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-23-20-1-1.5 Lab Sample ID: 480-177832-16

Matrix: Solid Lab File ID: 7_84-119.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.36(g) Date Analyzed: 11/21/2020 01:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	121		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-23-20-2-2.5 Lab Sample ID: 480-177832-17

Matrix: Solid Lab File ID: 7_84-111.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.20(g) Date Analyzed: 11/20/2020 23:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-23-20-4-5 Lab Sample ID: 480-177832-18

Matrix: Solid Lab File ID: 7_84-122.D

Analysis Method: 8082A Date Collected: 11/05/2020 14:55

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.09(g) Date Analyzed: 11/21/2020 02:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-56-20-1-5 Lab Sample ID: 480-177832-20

Matrix: Solid Lab File ID: 7_84-123.D

Analysis Method: 8082A Date Collected: 11/05/2020 15:22

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.11(g) Date Analyzed: 11/21/2020 02:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-56-20-5-6 Lab Sample ID: 480-177832-21

Matrix: Solid Lab File ID: 7_84-124.D

Analysis Method: 8082A Date Collected: 11/05/2020 15:25

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.39(g) Date Analyzed: 11/21/2020 02:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-52-20-0-0.5 Lab Sample ID: 480-177832-22

Matrix: Solid Lab File ID: 7_84-125.D

Analysis Method: 8082A Date Collected: 11/06/2020 07:44

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.31(g) Date Analyzed: 11/21/2020 03:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	5.6		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	111		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-52-20-1-1.5 Lab Sample ID: 480-177832-23

Matrix: Solid Lab File ID: 7_84-126.D

Analysis Method: 8082A Date Collected: 11/06/2020 07:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.30(g) Date Analyzed: 11/21/2020 03:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	2.2		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		60-154
2051-24-3	DCB Decachlorobiphenyl	128		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-52-20-3-4 Lab Sample ID: 480-177832-24

Matrix: Solid Lab File ID: 7_84-127.D

Analysis Method: 8082A Date Collected: 11/06/2020 07:45

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.06(g) Date Analyzed: 11/21/2020 03:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.058
11104-28-2	PCB-1221	ND		0.29	0.058
11141-16-5	PCB-1232	ND		0.29	0.058
53469-21-9	PCB-1242	ND		0.29	0.058
12672-29-6	PCB-1248	1.6		0.29	0.058
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	124		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-28-20-0-0.5 Lab Sample ID: 480-177832-25

Matrix: Solid Lab File ID: 7_84-128.D

Analysis Method: 8082A Date Collected: 11/06/2020 12:16

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.30(g) Date Analyzed: 11/21/2020 03:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	3.8	J	0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-28-20-1-1.5 Lab Sample ID: 480-177832-26

Matrix: Solid Lab File ID: 7_84-158.D

Analysis Method: 8082A Date Collected: 11/06/2020 12:17

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.36(g) Date Analyzed: 11/23/2020 19:03

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.3	0.45
11104-28-2	PCB-1221	ND		2.3	0.45
11141-16-5	PCB-1232	ND		2.3	0.45
53469-21-9	PCB-1242	ND		2.3	0.45
12672-29-6	PCB-1248	32		2.3	0.45
11097-69-1	PCB-1254	ND		2.3	1.1
11096-82-5	PCB-1260	ND		2.3	1.1
37324-23-5	PCB-1262	ND		2.3	1.1
11100-14-4	PCB-1268	ND		2.3	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	72		60-154
2051-24-3	DCB Decachlorobiphenyl	80		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-28-20-4-5 Lab Sample ID: 480-177832-27

Matrix: Solid Lab File ID: 7_84-130.D

Analysis Method: 8082A Date Collected: 11/06/2020 12:18

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.19(g) Date Analyzed: 11/21/2020 04:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	2.0	J	0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-27-20-0-0.5 Lab Sample ID: 480-177832-28

Matrix: Solid Lab File ID: 7_84-131.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:00

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.09(g) Date Analyzed: 11/21/2020 04:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560203 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	4.0	J	0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-27-20-1-1.5 Lab Sample ID: 480-177832-29

Matrix: Solid Lab File ID: 7_84-159.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:00

Extraction Method: 3550C Date Extracted: 11/15/2020 08:58

Sample wt/vol: 2.12(g) Date Analyzed: 11/23/2020 19:19

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.5	0.49
11104-28-2	PCB-1221	ND		2.5	0.49
11141-16-5	PCB-1232	ND		2.5	0.49
53469-21-9	PCB-1242	ND		2.5	0.49
12672-29-6	PCB-1248	17		2.5	0.49
11097-69-1	PCB-1254	ND		2.5	1.2
11096-82-5	PCB-1260	ND		2.5	1.2
37324-23-5	PCB-1262	ND		2.5	1.2
11100-14-4	PCB-1268	ND		2.5	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-27-20-3.5-4.5 Lab Sample ID: 480-177832-30

Matrix: Solid Lab File ID: 7_84-303.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:00

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.03(g) Date Analyzed: 11/29/2020 19:43

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.30	0.058
11104-28-2	PCB-1221	ND		0.30	0.058
11141-16-5	PCB-1232	ND		0.30	0.058
53469-21-9	PCB-1242	ND		0.30	0.058
12672-29-6	PCB-1248	0.095	J	0.30	0.058
11097-69-1	PCB-1254	ND		0.30	0.14
11096-82-5	PCB-1260	ND		0.30	0.14
37324-23-5	PCB-1262	ND		0.30	0.14
11100-14-4	PCB-1268	ND		0.30	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-26-20-0-0.5 Lab Sample ID: 480-177832-31

Matrix: Solid Lab File ID: 7_84-304.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:20

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.51(g) Date Analyzed: 11/29/2020 19:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	2.3	J	0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	109		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-26-20-1-1.5 Lab Sample ID: 480-177832-32

Matrix: Solid Lab File ID: 7_84-302.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:20

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.47(g) Date Analyzed: 11/29/2020 19:27

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	F1	0.43	0.084
11104-28-2	PCB-1221	ND		0.43	0.084
11141-16-5	PCB-1232	ND		0.43	0.084
53469-21-9	PCB-1242	ND		0.43	0.084
12672-29-6	PCB-1248	4.8		0.43	0.084
11097-69-1	PCB-1254	ND		0.43	0.20
11096-82-5	PCB-1260	ND		0.43	0.20
37324-23-5	PCB-1262	ND		0.43	0.20
11100-14-4	PCB-1268	ND		0.43	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	144		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-26-20-3-4 Lab Sample ID: 480-177832-33

Matrix: Solid Lab File ID: 7_84-305.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:20

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.47(g) Date Analyzed: 11/29/2020 20:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	0.071	J	0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-24-20-1-2 Lab Sample ID: 480-177832-34

Matrix: Solid Lab File ID: 7_84-306.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:50

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.67(g) Date Analyzed: 11/29/2020 20:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 27.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-24-20-3-4 Lab Sample ID: 480-177832-35

Matrix: Solid Lab File ID: 7_84-307.D

Analysis Method: 8082A Date Collected: 11/06/2020 13:50

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.12(g) Date Analyzed: 11/29/2020 20:47

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	ND		0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	122		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-25-20-1-2 Lab Sample ID: 480-177832-36

Matrix: Solid Lab File ID: 7_84-308.D

Analysis Method: 8082A Date Collected: 11/06/2020 14:00

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.27(g) Date Analyzed: 11/29/2020 21:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	ND		0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	138		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-0-0.5 Lab Sample ID: 480-177832-37

Matrix: Solid Lab File ID: 7_84-309.D

Analysis Method: 8082A Date Collected: 11/06/2020 08:06

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.06(g) Date Analyzed: 11/29/2020 21:18

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	0.81	J	0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	114		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-2-3 Lab Sample ID: 480-177832-38

Matrix: Solid Lab File ID: 7_84-310.D

Analysis Method: 8082A Date Collected: 11/06/2020 08:07

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.87(g) Date Analyzed: 11/29/2020 21:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.19	0.037
11104-28-2	PCB-1221	ND		0.19	0.037
11141-16-5	PCB-1232	ND		0.19	0.037
53469-21-9	PCB-1242	ND		0.19	0.037
12672-29-6	PCB-1248	ND		0.19	0.037
11097-69-1	PCB-1254	0.53		0.19	0.090
11096-82-5	PCB-1260	ND		0.19	0.090
37324-23-5	PCB-1262	ND		0.19	0.090
11100-14-4	PCB-1268	ND		0.19	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-4-5 Lab Sample ID: 480-177832-39

Matrix: Solid Lab File ID: 7_84-311.D

Analysis Method: 8082A Date Collected: 11/06/2020 08:10

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.69(g) Date Analyzed: 11/29/2020 21:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.041
11104-28-2	PCB-1221	ND		0.21	0.041
11141-16-5	PCB-1232	ND		0.21	0.041
53469-21-9	PCB-1242	ND		0.21	0.041
12672-29-6	PCB-1248	ND		0.21	0.041
11097-69-1	PCB-1254	ND		0.21	0.098
11096-82-5	PCB-1260	ND		0.21	0.098
37324-23-5	PCB-1262	ND		0.21	0.098
11100-14-4	PCB-1268	ND		0.21	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	132		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-45-20-0-0.5 Lab Sample ID: 480-177832-40

Matrix: Solid Lab File ID: 7_84-312.D

Analysis Method: 8082A Date Collected: 11/06/2020 08:50

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.17(g) Date Analyzed: 11/29/2020 22:06

Con. Extract Vol.: 10(mL) Dilution Factor: 500

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 2.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		120	23
11104-28-2	PCB-1221	ND		120	23
11141-16-5	PCB-1232	ND		120	23
53469-21-9	PCB-1242	ND		120	23
12672-29-6	PCB-1248	930		120	23
11097-69-1	PCB-1254	ND		120	55
11096-82-5	PCB-1260	ND		120	55
37324-23-5	PCB-1262	ND		120	55
11100-14-4	PCB-1268	ND		120	55

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	0	X	60-154
2051-24-3	DCB Decachlorobiphenyl	0	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-45-20-2-3 Lab Sample ID: 480-177832-41

Matrix: Solid Lab File ID: 7_84-315.D

Analysis Method: 8082A Date Collected: 11/06/2020 08:50

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.36(g) Date Analyzed: 11/29/2020 22:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	0.98	J	0.25	0.048
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	143		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-45-20-4-5 Lab Sample ID: 480-177832-42

Matrix: Solid Lab File ID: 7_84-316.D

Analysis Method: 8082A Date Collected: 11/06/2020 08:50

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.68(g) Date Analyzed: 11/29/2020 23:09

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.1	0.21
11104-28-2	PCB-1221	ND		1.1	0.21
11141-16-5	PCB-1232	ND		1.1	0.21
53469-21-9	PCB-1242	ND		1.1	0.21
12672-29-6	PCB-1248	6.0		1.1	0.21
11097-69-1	PCB-1254	ND		1.1	0.50
11096-82-5	PCB-1260	ND		1.1	0.50
37324-23-5	PCB-1262	ND		1.1	0.50
11100-14-4	PCB-1268	ND		1.1	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	153		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-0-0.5 Lab Sample ID: 480-177832-43

Matrix: Solid Lab File ID: 7_84-317.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:10

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.40(g) Date Analyzed: 11/29/2020 23:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 4.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	1.5		0.22	0.043
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	128		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-2-3 Lab Sample ID: 480-177832-44

Matrix: Solid Lab File ID: 7_84-318.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:10

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.60(g) Date Analyzed: 11/29/2020 23:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	ND		0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	126		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-4-5 Lab Sample ID: 480-177832-45

Matrix: Solid Lab File ID: 7_84-319.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:10

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.61(g) Date Analyzed: 11/29/2020 23:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.042
11104-28-2	PCB-1221	ND		0.22	0.042
11141-16-5	PCB-1232	ND		0.22	0.042
53469-21-9	PCB-1242	ND		0.22	0.042
12672-29-6	PCB-1248	0.11	J	0.22	0.042
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	138		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-47-20-0-0.5 Lab Sample ID: 480-177832-46

Matrix: Solid Lab File ID: 7_84-320.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:25

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.75(g) Date Analyzed: 11/30/2020 00:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.040
11104-28-2	PCB-1221	ND		0.20	0.040
11141-16-5	PCB-1232	ND		0.20	0.040
53469-21-9	PCB-1242	ND		0.20	0.040
12672-29-6	PCB-1248	ND		0.20	0.040
11097-69-1	PCB-1254	ND		0.20	0.095
11096-82-5	PCB-1260	0.19	J	0.20	0.095
37324-23-5	PCB-1262	ND		0.20	0.095
11100-14-4	PCB-1268	ND		0.20	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	90		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-47-20-2-3 Lab Sample ID: 480-177832-47

Matrix: Solid Lab File ID: 7_84-321.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:25

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.25(g) Date Analyzed: 11/30/2020 00:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	ND		0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	131		60-154
2051-24-3	DCB Decachlorobiphenyl	141		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-47-20-4-4.8 Lab Sample ID: 480-177832-48

Matrix: Solid Lab File ID: 7_84-322.D

Analysis Method: 8082A Date Collected: 11/06/2020 09:25

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.18(g) Date Analyzed: 11/30/2020 00:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.054
11104-28-2	PCB-1221	ND		0.27	0.054
11141-16-5	PCB-1232	ND		0.27	0.054
53469-21-9	PCB-1242	ND		0.27	0.054
12672-29-6	PCB-1248	ND		0.27	0.054
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	138		65-174

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-15-20-4-5 Lab Sample ID: 480-177721-18

Matrix: Solid Lab File ID: P6011.D

Analysis Method: 8260C Date Collected: 11/04/2020 12:20

Sample wt/vol: 5.16(g) Date Analyzed: 11/09/2020 05:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 6.6 Level: (low/med) Low

Analysis Batch No.: 558037 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 413.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro=	4.80	20	T J N	87%
	Unknown	12.96	5.5	T J	
629-59-4	Tetradecane	13.71	130	T J N	97%
	Unknown	14.16	7.9	T J	
629-62-9	Pentadecane	14.41	250	T J N	94%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-14-20-4-5 Lab Sample ID: 480-177721-22

Matrix: Solid Lab File ID: S4067.D

Analysis Method: 8260C Date Collected: 11/04/2020 13:10

Sample wt/vol: 5(g) Date Analyzed: 11/11/2020 22:15

Soil Aliquot Vol: 100 (uL) Dilution Factor: 2

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 15.3 Level: (low/med) Medium

Analysis Batch No.: 558565 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		250	70
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	41
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		250	130
79-00-5	1,1,2-Trichloroethane	ND		250	53
75-34-3	1,1-Dichloroethane	ND		250	79
75-35-4	1,1-Dichloroethene	ND		250	88
120-82-1	1,2,4-Trichlorobenzene	ND		250	96
96-12-8	1,2-Dibromo-3-Chloropropane	ND		250	130
95-50-1	1,2-Dichlorobenzene	ND		250	65
107-06-2	1,2-Dichloroethane	ND		250	100
78-87-5	1,2-Dichloropropane	ND		250	41
541-73-1	1,3-Dichlorobenzene	ND		250	68
106-46-7	1,4-Dichlorobenzene	ND		250	36
78-93-3	2-Butanone (MEK)	ND		1300	760
591-78-6	2-Hexanone	ND		1300	520
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1300	81
67-64-1	Acetone	ND		1300	1000
71-43-2	Benzene	ND		250	48
75-25-2	Bromoform	ND		250	130
74-83-9	Bromomethane	ND		250	56
75-15-0	Carbon disulfide	ND		250	120
56-23-5	Carbon tetrachloride	ND		250	65
108-90-7	Chlorobenzene	ND		250	34
124-48-1	Dibromochloromethane	ND		250	120
75-00-3	Chloroethane	ND		250	53
67-66-3	Chloroform	ND		250	170
74-87-3	Chloromethane	ND		250	61
156-59-2	cis-1,2-Dichloroethene	ND		250	70
110-82-7	Cyclohexane	ND		250	56
75-27-4	Bromodichloromethane	ND		250	51
75-71-8	Dichlorodifluoromethane	ND		250	110
100-41-4	Ethylbenzene	ND		250	74
106-93-4	1,2-Dibromoethane	ND		250	45
98-82-8	Isopropylbenzene	ND		250	38
79-20-9	Methyl acetate	ND		1300	120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-14-20-4-5 Lab Sample ID: 480-177721-22

Matrix: Solid Lab File ID: S4067.D

Analysis Method: 8260C Date Collected: 11/04/2020 13:10

Sample wt/vol: 5(g) Date Analyzed: 11/11/2020 22:15

Soil Aliquot Vol: 100 (uL) Dilution Factor: 2

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 15.3 Level: (low/med) Medium

Analysis Batch No.: 558565 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		250	96
108-87-2	Methylcyclohexane	ND		250	120
75-09-2	Methylene Chloride	ND		250	50
127-18-4	Tetrachloroethene	ND		250	34
108-88-3	Toluene	ND		250	68
156-60-5	trans-1,2-Dichloroethene	ND		250	60
10061-02-6	trans-1,3-Dichloropropene	ND		250	25
79-01-6	Trichloroethene	ND		250	71
75-69-4	Trichlorofluoromethane	ND		250	120
75-01-4	Vinyl chloride	ND		250	85
1330-20-7	Xylenes, Total	ND		510	140
10061-01-5	cis-1,3-Dichloropropene	ND		250	61
100-42-5	Styrene	ND		250	61

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		53-146
460-00-4	4-Bromofluorobenzene (Surr)	110		49-148
2037-26-5	Toluene-d8 (Surr)	105		50-149

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-14-20-4-5 Lab Sample ID: 480-177721-22

Matrix: Solid Lab File ID: S4067.D

Analysis Method: 8260C Date Collected: 11/04/2020 13:10

Sample wt/vol: 5(g) Date Analyzed: 11/11/2020 22:15

Soil Aliquot Vol: 100 (uL) Dilution Factor: 2

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 15.3 Level: (low/med) Medium

Analysis Batch No.: 558565 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 19620

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
629-50-5	Tridecane	12.91	1300	T J N	93%
	Unknown	13.50	730	T J	
629-59-4	Tetradecane	13.66	10000	T J N	98%
	Unknown	14.10	690	T J	
629-62-9	Pentadecane	14.35	6900	T J N	96%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-5.8-6.8 Lab Sample ID: 480-177826-16

Matrix: Solid Lab File ID: P6056.D

Analysis Method: 8260C Date Collected: 11/04/2020 14:45

Sample wt/vol: 5.09(g) Date Analyzed: 11/10/2020 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 16.5 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.9	0.43
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.9	0.95
79-00-5	1,1,2-Trichloroethane	ND		5.9	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	1.3
75-34-3	1,1-Dichloroethane	ND		5.9	0.72
75-35-4	1,1-Dichloroethene	ND		5.9	0.72
120-82-1	1,2,4-Trichlorobenzene	ND		5.9	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.9	2.9
95-50-1	1,2-Dichlorobenzene	ND		5.9	0.46
107-06-2	1,2-Dichloroethane	ND		5.9	0.30
78-87-5	1,2-Dichloropropane	ND		5.9	2.9
541-73-1	1,3-Dichlorobenzene	ND		5.9	0.30
106-46-7	1,4-Dichlorobenzene	ND		5.9	0.82
78-93-3	2-Butanone (MEK)	ND		29	2.2
591-78-6	2-Hexanone	ND		29	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		29	1.9
67-64-1	Acetone	ND		29	5.0
71-43-2	Benzene	ND		5.9	0.29
75-27-4	Bromodichloromethane	ND		5.9	0.79
75-25-2	Bromoform	ND		5.9	2.9
74-83-9	Bromomethane	ND		5.9	0.53
75-15-0	Carbon disulfide	ND		5.9	2.9
56-23-5	Carbon tetrachloride	ND		5.9	0.57
108-90-7	Chlorobenzene	ND		5.9	0.78
124-48-1	Dibromochloromethane	ND		5.9	0.75
75-00-3	Chloroethane	ND		5.9	1.3
67-66-3	Chloroform	ND		5.9	0.36
74-87-3	Chloromethane	ND		5.9	0.36
156-59-2	cis-1,2-Dichloroethene	ND		5.9	0.75
10061-01-5	cis-1,3-Dichloropropene	ND		5.9	0.85
110-82-7	Cyclohexane	ND		5.9	0.82
75-71-8	Dichlorodifluoromethane	ND	UJ	5.9	0.49
100-41-4	Ethylbenzene	ND		5.9	0.41
106-93-4	1,2-Dibromoethane	ND		5.9	0.76
98-82-8	Isopropylbenzene	ND		5.9	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-5.8-6.8 Lab Sample ID: 480-177826-16

Matrix: Solid Lab File ID: P6056.D

Analysis Method: 8260C Date Collected: 11/04/2020 14:45

Sample wt/vol: 5.09(g) Date Analyzed: 11/10/2020 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 16.5 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		29	3.6
1634-04-4	Methyl tert-butyl ether	ND		5.9	0.58
108-87-2	Methylcyclohexane	ND		5.9	0.89
75-09-2	Methylene Chloride	ND		5.9	2.7
100-42-5	Styrene	ND		5.9	0.29
127-18-4	Tetrachloroethene	ND		5.9	0.79
108-88-3	Toluene	ND		5.9	0.44
156-60-5	trans-1,2-Dichloroethene	ND		5.9	0.61
10061-02-6	trans-1,3-Dichloropropene	ND		5.9	2.6
79-01-6	Trichloroethene	ND		5.9	1.3
75-69-4	Trichlorofluoromethane	ND		5.9	0.56
75-01-4	Vinyl chloride	ND		5.9	0.72
1330-20-7	Xylenes, Total	ND		12	0.99

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		64-126
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-01-20-5.8-6.8 Lab Sample ID: 480-177826-16

Matrix: Solid Lab File ID: P6056.D

Analysis Method: 8260C Date Collected: 11/04/2020 14:45

Sample wt/vol: 5.09(g) Date Analyzed: 11/10/2020 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 16.5 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 22

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	22	T J N	90%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-2-3 Lab Sample ID: 480-177826-19

Matrix: Solid Lab File ID: P6057.D

Analysis Method: 8260C Date Collected: 11/04/2020 15:15

Sample wt/vol: 5.04(g) Date Analyzed: 11/10/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 13.7 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.7	0.42
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.7	0.93
79-00-5	1,1,2-Trichloroethane	ND		5.7	0.75
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	1.3
75-34-3	1,1-Dichloroethane	ND		5.7	0.70
75-35-4	1,1-Dichloroethene	ND		5.7	0.70
120-82-1	1,2,4-Trichlorobenzene	ND		5.7	0.35
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.7	2.9
95-50-1	1,2-Dichlorobenzene	ND		5.7	0.45
107-06-2	1,2-Dichloroethane	ND		5.7	0.29
78-87-5	1,2-Dichloropropane	ND		5.7	2.9
541-73-1	1,3-Dichlorobenzene	ND		5.7	0.30
106-46-7	1,4-Dichlorobenzene	ND		5.7	0.80
78-93-3	2-Butanone (MEK)	ND		29	2.1
591-78-6	2-Hexanone	ND		29	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		29	1.9
67-64-1	Acetone	14	J	29	4.8
71-43-2	Benzene	ND		5.7	0.28
75-27-4	Bromodichloromethane	ND		5.7	0.77
75-25-2	Bromoform	ND		5.7	2.9
74-83-9	Bromomethane	ND		5.7	0.52
75-15-0	Carbon disulfide	ND		5.7	2.9
56-23-5	Carbon tetrachloride	ND		5.7	0.56
108-90-7	Chlorobenzene	ND		5.7	0.76
124-48-1	Dibromochloromethane	ND		5.7	0.74
75-00-3	Chloroethane	ND		5.7	1.3
67-66-3	Chloroform	ND		5.7	0.36
74-87-3	Chloromethane	ND		5.7	0.35
156-59-2	cis-1,2-Dichloroethene	ND		5.7	0.74
10061-01-5	cis-1,3-Dichloropropene	ND		5.7	0.83
110-82-7	Cyclohexane	ND		5.7	0.80
75-71-8	Dichlorodifluoromethane	ND	UJ	5.7	0.47
100-41-4	Ethylbenzene	ND		5.7	0.40
106-93-4	1,2-Dibromoethane	ND		5.7	0.74
98-82-8	Isopropylbenzene	ND		5.7	0.87

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-2-3 Lab Sample ID: 480-177826-19

Matrix: Solid Lab File ID: P6057.D

Analysis Method: 8260C Date Collected: 11/04/2020 15:15

Sample wt/vol: 5.04(g) Date Analyzed: 11/10/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 13.7 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		29	3.5
1634-04-4	Methyl tert-butyl ether	ND		5.7	0.56
108-87-2	Methylcyclohexane	ND		5.7	0.87
75-09-2	Methylene Chloride	ND		5.7	2.6
100-42-5	Styrene	ND		5.7	0.29
127-18-4	Tetrachloroethene	ND		5.7	0.77
108-88-3	Toluene	ND		5.7	0.43
156-60-5	trans-1,2-Dichloroethene	ND		5.7	0.59
10061-02-6	trans-1,3-Dichloropropene	ND		5.7	2.5
79-01-6	Trichloroethene	ND		5.7	1.3
75-69-4	Trichlorofluoromethane	ND		5.7	0.54
75-01-4	Vinyl chloride	ND		5.7	0.70
1330-20-7	Xylenes, Total	ND		11	0.97

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		64-126
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-2-3 Lab Sample ID: 480-177826-19

Matrix: Solid Lab File ID: P6057.D

Analysis Method: 8260C Date Collected: 11/04/2020 15:15

Sample wt/vol: 5.04(g) Date Analyzed: 11/10/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 13.7 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 21

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	21	T J N	90%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-4.8-5.8 Lab Sample ID: 480-177826-31

Matrix: Solid Lab File ID: P6058.D

Analysis Method: 8260C Date Collected: 11/05/2020 08:45

Sample wt/vol: 5.15(g) Date Analyzed: 11/10/2020 03:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 12.1 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.5	0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.5	0.90
79-00-5	1,1,2-Trichloroethane	ND		5.5	0.72
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		5.5	1.3
75-34-3	1,1-Dichloroethane	ND		5.5	0.67
75-35-4	1,1-Dichloroethene	ND		5.5	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		5.5	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.5	2.8
95-50-1	1,2-Dichlorobenzene	ND		5.5	0.43
107-06-2	1,2-Dichloroethane	ND		5.5	0.28
78-87-5	1,2-Dichloropropane	ND		5.5	2.8
541-73-1	1,3-Dichlorobenzene	ND		5.5	0.28
106-46-7	1,4-Dichlorobenzene	ND		5.5	0.77
78-93-3	2-Butanone (MEK)	ND		28	2.0
591-78-6	2-Hexanone	ND		28	2.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		28	1.8
67-64-1	Acetone	19	J	28	4.6
71-43-2	Benzene	ND		5.5	0.27
75-27-4	Bromodichloromethane	ND		5.5	0.74
75-25-2	Bromoform	ND		5.5	2.8
74-83-9	Bromomethane	ND		5.5	0.50
75-15-0	Carbon disulfide	ND		5.5	2.8
56-23-5	Carbon tetrachloride	ND		5.5	0.53
108-90-7	Chlorobenzene	ND		5.5	0.73
124-48-1	Dibromochloromethane	ND		5.5	0.71
75-00-3	Chloroethane	ND		5.5	1.2
67-66-3	Chloroform	ND		5.5	0.34
74-87-3	Chloromethane	ND		5.5	0.33
156-59-2	cis-1,2-Dichloroethene	ND		5.5	0.71
10061-01-5	cis-1,3-Dichloropropene	ND		5.5	0.79
110-82-7	Cyclohexane	ND		5.5	0.77
75-71-8	Dichlorodifluoromethane	ND	UJ	5.5	0.46
100-41-4	Ethylbenzene	ND		5.5	0.38
106-93-4	1,2-Dibromoethane	ND		5.5	0.71
98-82-8	Isopropylbenzene	ND		5.5	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-4.8-5.8 Lab Sample ID: 480-177826-31

Matrix: Solid Lab File ID: P6058.D

Analysis Method: 8260C Date Collected: 11/05/2020 08:45

Sample wt/vol: 5.15(g) Date Analyzed: 11/10/2020 03:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 12.1 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		28	3.3
1634-04-4	Methyl tert-butyl ether	ND		5.5	0.54
108-87-2	Methylcyclohexane	ND		5.5	0.84
75-09-2	Methylene Chloride	ND		5.5	2.5
100-42-5	Styrene	ND		5.5	0.28
127-18-4	Tetrachloroethene	ND		5.5	0.74
108-88-3	Toluene	ND		5.5	0.42
156-60-5	trans-1,2-Dichloroethene	ND		5.5	0.57
10061-02-6	trans-1,3-Dichloropropene	ND		5.5	2.4
79-01-6	Trichloroethene	ND		5.5	1.2
75-69-4	Trichlorofluoromethane	ND		5.5	0.52
75-01-4	Vinyl chloride	ND		5.5	0.67
1330-20-7	Xylenes, Total	ND		11	0.93

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		64-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-4.8-5.8 Lab Sample ID: 480-177826-31

Matrix: Solid Lab File ID: P6058.D

Analysis Method: 8260C Date Collected: 11/05/2020 08:45

Sample wt/vol: 5.15(g) Date Analyzed: 11/10/2020 03:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 12.1 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 21

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	21	T J N	90%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-11-20-1-5 Lab Sample ID: 480-177826-48

Matrix: Solid Lab File ID: P6059.D

Analysis Method: 8260C Date Collected: 11/05/2020 11:52

Sample wt/vol: 5.11(g) Date Analyzed: 11/10/2020 03:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 18.8 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.0	0.98
79-00-5	1,1,2-Trichloroethane	ND		6.0	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0	1.4
75-34-3	1,1-Dichloroethane	ND		6.0	0.73
75-35-4	1,1-Dichloroethene	ND		6.0	0.74
120-82-1	1,2,4-Trichlorobenzene	4.6	J	6.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.0	3.0
95-50-1	1,2-Dichlorobenzene	ND		6.0	0.47
107-06-2	1,2-Dichloroethane	ND		6.0	0.30
78-87-5	1,2-Dichloropropane	ND		6.0	3.0
541-73-1	1,3-Dichlorobenzene	1.3	J	6.0	0.31
106-46-7	1,4-Dichlorobenzene	ND		6.0	0.84
78-93-3	2-Butanone (MEK)	ND		30	2.2
591-78-6	2-Hexanone	ND		30	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		30	2.0
67-64-1	Acetone	210		30	5.1
71-43-2	Benzene	ND		6.0	0.30
75-27-4	Bromodichloromethane	ND		6.0	0.81
75-25-2	Bromoform	ND		6.0	3.0
74-83-9	Bromomethane	ND		6.0	0.54
75-15-0	Carbon disulfide	ND		6.0	3.0
56-23-5	Carbon tetrachloride	ND		6.0	0.58
108-90-7	Chlorobenzene	ND		6.0	0.80
124-48-1	Dibromochloromethane	ND		6.0	0.77
75-00-3	Chloroethane	ND		6.0	1.4
67-66-3	Chloroform	ND		6.0	0.37
74-87-3	Chloromethane	ND		6.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	ND		6.0	0.87
110-82-7	Cyclohexane	ND		6.0	0.84
75-71-8	Dichlorodifluoromethane	ND	UJ	6.0	0.50
100-41-4	Ethylbenzene	ND		6.0	0.42
106-93-4	1,2-Dibromoethane	ND		6.0	0.77
98-82-8	Isopropylbenzene	ND		6.0	0.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-11-20-1-5 Lab Sample ID: 480-177826-48

Matrix: Solid Lab File ID: P6059.D

Analysis Method: 8260C Date Collected: 11/05/2020 11:52

Sample wt/vol: 5.11(g) Date Analyzed: 11/10/2020 03:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 18.8 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		30	3.6
1634-04-4	Methyl tert-butyl ether	ND		6.0	0.59
108-87-2	Methylcyclohexane	ND		6.0	0.92
75-09-2	Methylene Chloride	ND		6.0	2.8
100-42-5	Styrene	ND		6.0	0.30
127-18-4	Tetrachloroethene	ND		6.0	0.81
108-88-3	Toluene	0.58	J	6.0	0.46
156-60-5	trans-1,2-Dichloroethene	ND		6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	ND		6.0	2.7
79-01-6	Trichloroethene	ND		6.0	1.3
75-69-4	Trichlorofluoromethane	ND		6.0	0.57
75-01-4	Vinyl chloride	ND		6.0	0.73
1330-20-7	Xylenes, Total	ND		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-11-20-1-5 Lab Sample ID: 480-177826-48

Matrix: Solid Lab File ID: P6059.D

Analysis Method: 8260C Date Collected: 11/05/2020 11:52

Sample wt/vol: 5.11(g) Date Analyzed: 11/10/2020 03:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 18.8 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 32.1

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	4.80	24	T J	
	Unknown	12.91	8.1	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-18-20-0-3.7 Lab Sample ID: 480-177826-50

Matrix: Solid Lab File ID: P6080.D

Analysis Method: 8260C Date Collected: 11/05/2020 13:35

Sample wt/vol: 5.14(g) Date Analyzed: 11/10/2020 15:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 22.5 Level: (low/med) Low

Analysis Batch No.: 558247 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.3	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.3	1.0
79-00-5	1,1,2-Trichloroethane	ND		6.3	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	1.4
75-34-3	1,1-Dichloroethane	ND		6.3	0.77
75-35-4	1,1-Dichloroethene	ND		6.3	0.77
120-82-1	1,2,4-Trichlorobenzene	ND		6.3	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.3	3.1
95-50-1	1,2-Dichlorobenzene	ND		6.3	0.49
107-06-2	1,2-Dichloroethane	ND		6.3	0.32
78-87-5	1,2-Dichloropropane	ND		6.3	3.1
541-73-1	1,3-Dichlorobenzene	ND		6.3	0.32
106-46-7	1,4-Dichlorobenzene	1.5	J	6.3	0.88
78-93-3	2-Butanone (MEK)	ND		31	2.3
591-78-6	2-Hexanone	ND		31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		31	2.1
67-64-1	Acetone	20	J	31	5.3
71-43-2	Benzene	ND		6.3	0.31
75-27-4	Bromodichloromethane	ND		6.3	0.84
75-25-2	Bromoform	ND		6.3	3.1
74-83-9	Bromomethane	ND		6.3	0.56
75-15-0	Carbon disulfide	ND		6.3	3.1
56-23-5	Carbon tetrachloride	ND		6.3	0.61
108-90-7	Chlorobenzene	ND		6.3	0.83
124-48-1	Dibromochloromethane	ND		6.3	0.80
75-00-3	Chloroethane	ND		6.3	1.4
67-66-3	Chloroform	ND		6.3	0.39
74-87-3	Chloromethane	ND		6.3	0.38
156-59-2	cis-1,2-Dichloroethene	ND		6.3	0.80
10061-01-5	cis-1,3-Dichloropropene	ND		6.3	0.90
110-82-7	Cyclohexane	ND		6.3	0.88
75-71-8	Dichlorodifluoromethane	ND	UJ	6.3	0.52
100-41-4	Ethylbenzene	ND		6.3	0.43
106-93-4	1,2-Dibromoethane	ND		6.3	0.81
98-82-8	Isopropylbenzene	ND		6.3	0.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-18-20-0-3.7 Lab Sample ID: 480-177826-50

Matrix: Solid Lab File ID: P6080.D

Analysis Method: 8260C Date Collected: 11/05/2020 13:35

Sample wt/vol: 5.14(g) Date Analyzed: 11/10/2020 15:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 22.5 Level: (low/med) Low

Analysis Batch No.: 558247 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		31	3.8
1634-04-4	Methyl tert-butyl ether	ND		6.3	0.62
108-87-2	Methylcyclohexane	ND		6.3	0.95
75-09-2	Methylene Chloride	ND		6.3	2.9
100-42-5	Styrene	ND		6.3	0.31
127-18-4	Tetrachloroethene	ND		6.3	0.84
108-88-3	Toluene	2.2	J	6.3	0.47
156-60-5	trans-1,2-Dichloroethene	ND		6.3	0.65
10061-02-6	trans-1,3-Dichloropropene	ND		6.3	2.8
79-01-6	Trichloroethene	ND		6.3	1.4
75-69-4	Trichlorofluoromethane	ND		6.3	0.59
75-01-4	Vinyl chloride	ND		6.3	0.77
1330-20-7	Xylenes, Total	ND		13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-18-20-0-3.7 Lab Sample ID: 480-177826-50

Matrix: Solid Lab File ID: P6080.D

Analysis Method: 8260C Date Collected: 11/05/2020 13:35

Sample wt/vol: 5.14(g) Date Analyzed: 11/10/2020 15:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 22.5 Level: (low/med) Low

Analysis Batch No.: 558247 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 29.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	23	T J N	90%
91-20-3	Naphthalene	12.78	6.9	T J N	94%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-30-20-2-4 Lab Sample ID: 480-177832-8

Matrix: Solid Lab File ID: P6061.D

Analysis Method: 8260C Date Collected: 11/06/2020 11:07

Sample wt/vol: 5.14(g) Date Analyzed: 11/10/2020 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 11.2 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.5	0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.5	0.89
79-00-5	1,1,2-Trichloroethane	ND		5.5	0.71
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	1.2
75-34-3	1,1-Dichloroethane	ND		5.5	0.67
75-35-4	1,1-Dichloroethene	ND		5.5	0.67
120-82-1	1,2,4-Trichlorobenzene	ND		5.5	0.33
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.5	2.7
95-50-1	1,2-Dichlorobenzene	ND		5.5	0.43
107-06-2	1,2-Dichloroethane	ND		5.5	0.27
78-87-5	1,2-Dichloropropane	ND		5.5	2.7
541-73-1	1,3-Dichlorobenzene	ND		5.5	0.28
106-46-7	1,4-Dichlorobenzene	ND		5.5	0.77
78-93-3	2-Butanone (MEK)	ND		27	2.0
591-78-6	2-Hexanone	ND		27	2.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		27	1.8
67-64-1	Acetone	ND		27	4.6
71-43-2	Benzene	ND		5.5	0.27
75-27-4	Bromodichloromethane	ND		5.5	0.73
75-25-2	Bromoform	ND		5.5	2.7
74-83-9	Bromomethane	ND		5.5	0.49
75-15-0	Carbon disulfide	ND		5.5	2.7
56-23-5	Carbon tetrachloride	ND		5.5	0.53
108-90-7	Chlorobenzene	ND		5.5	0.72
124-48-1	Dibromochloromethane	ND		5.5	0.70
75-00-3	Chloroethane	ND		5.5	1.2
67-66-3	Chloroform	ND		5.5	0.34
74-87-3	Chloromethane	ND		5.5	0.33
156-59-2	cis-1,2-Dichloroethene	ND		5.5	0.70
10061-01-5	cis-1,3-Dichloropropene	ND		5.5	0.79
110-82-7	Cyclohexane	ND		5.5	0.77
75-71-8	Dichlorodifluoromethane	ND	UJ	5.5	0.45
100-41-4	Ethylbenzene	ND		5.5	0.38
106-93-4	1,2-Dibromoethane	ND		5.5	0.70
98-82-8	Isopropylbenzene	ND		5.5	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-30-20-2-4 Lab Sample ID: 480-177832-8

Matrix: Solid Lab File ID: P6061.D

Analysis Method: 8260C Date Collected: 11/06/2020 11:07

Sample wt/vol: 5.14(g) Date Analyzed: 11/10/2020 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 11.2 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		27	3.3
1634-04-4	Methyl tert-butyl ether	ND		5.5	0.54
108-87-2	Methylcyclohexane	ND		5.5	0.83
75-09-2	Methylene Chloride	ND		5.5	2.5
100-42-5	Styrene	ND		5.5	0.27
127-18-4	Tetrachloroethene	ND		5.5	0.74
108-88-3	Toluene	0.42	J	5.5	0.41
156-60-5	trans-1,2-Dichloroethene	ND		5.5	0.57
10061-02-6	trans-1,3-Dichloropropene	ND		5.5	2.4
79-01-6	Trichloroethene	ND		5.5	1.2
75-69-4	Trichlorofluoromethane	ND		5.5	0.52
75-01-4	Vinyl chloride	ND		5.5	0.67
1330-20-7	Xylenes, Total	ND		11	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		64-126
460-00-4	4-Bromofluorobenzene (Surr)	88		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-30-20-2-4 Lab Sample ID: 480-177832-8

Matrix: Solid Lab File ID: P6061.D

Analysis Method: 8260C Date Collected: 11/06/2020 11:07

Sample wt/vol: 5.14(g) Date Analyzed: 11/10/2020 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 11.2 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 21

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	21	T J N	91%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-23-20-2-2.5 Lab Sample ID: 480-177832-17

Matrix: Solid Lab File ID: P6062.D

Analysis Method: 8260C Date Collected: 11/05/2020 14:55

Sample wt/vol: 5.13(g) Date Analyzed: 11/10/2020 05:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 13.8 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.7	0.41
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.7	0.92
79-00-5	1,1,2-Trichloroethane	ND		5.7	0.74
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	1.3
75-34-3	1,1-Dichloroethane	ND		5.7	0.69
75-35-4	1,1-Dichloroethene	ND		5.7	0.69
120-82-1	1,2,4-Trichlorobenzene	ND		5.7	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.7	2.8
95-50-1	1,2-Dichlorobenzene	ND		5.7	0.44
107-06-2	1,2-Dichloroethane	ND		5.7	0.28
78-87-5	1,2-Dichloropropane	ND		5.7	2.8
541-73-1	1,3-Dichlorobenzene	ND		5.7	0.29
106-46-7	1,4-Dichlorobenzene	ND		5.7	0.79
78-93-3	2-Butanone (MEK)	ND		28	2.1
591-78-6	2-Hexanone	ND		28	2.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		28	1.9
67-64-1	Acetone	34		28	4.8
71-43-2	Benzene	ND		5.7	0.28
75-27-4	Bromodichloromethane	ND		5.7	0.76
75-25-2	Bromoform	ND		5.7	2.8
74-83-9	Bromomethane	ND		5.7	0.51
75-15-0	Carbon disulfide	2.9	J	5.7	2.8
56-23-5	Carbon tetrachloride	ND		5.7	0.55
108-90-7	Chlorobenzene	ND		5.7	0.75
124-48-1	Dibromochloromethane	ND		5.7	0.72
75-00-3	Chloroethane	ND		5.7	1.3
67-66-3	Chloroform	ND		5.7	0.35
74-87-3	Chloromethane	ND		5.7	0.34
156-59-2	cis-1,2-Dichloroethene	ND		5.7	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		5.7	0.81
110-82-7	Cyclohexane	ND		5.7	0.79
75-71-8	Dichlorodifluoromethane	ND	UJ	5.7	0.47
100-41-4	Ethylbenzene	ND		5.7	0.39
106-93-4	1,2-Dibromoethane	ND		5.7	0.73
98-82-8	Isopropylbenzene	ND		5.7	0.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-23-20-2-2.5 Lab Sample ID: 480-177832-17

Matrix: Solid Lab File ID: P6062.D

Analysis Method: 8260C Date Collected: 11/05/2020 14:55

Sample wt/vol: 5.13(g) Date Analyzed: 11/10/2020 05:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 13.8 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		28	3.4
1634-04-4	Methyl tert-butyl ether	ND		5.7	0.56
108-87-2	Methylcyclohexane	ND		5.7	0.86
75-09-2	Methylene Chloride	ND		5.7	2.6
100-42-5	Styrene	ND		5.7	0.28
127-18-4	Tetrachloroethene	ND		5.7	0.76
108-88-3	Toluene	ND		5.7	0.43
156-60-5	trans-1,2-Dichloroethene	ND		5.7	0.58
10061-02-6	trans-1,3-Dichloropropene	ND		5.7	2.5
79-01-6	Trichloroethene	ND		5.7	1.2
75-69-4	Trichlorofluoromethane	ND		5.7	0.53
75-01-4	Vinyl chloride	ND		5.7	0.69
1330-20-7	Xylenes, Total	ND		11	0.95

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-23-20-2-2.5 Lab Sample ID: 480-177832-17

Matrix: Solid Lab File ID: P6062.D

Analysis Method: 8260C Date Collected: 11/05/2020 14:55

Sample wt/vol: 5.13(g) Date Analyzed: 11/10/2020 05:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 13.8 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 20

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	20	T J N	90%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1
SDG No.: 480-177721
Client Sample ID: FD-110520-4 Lab Sample ID: 480-177832-19
Matrix: Solid Lab File ID: P6063.D
Analysis Method: 8260C Date Collected: 11/05/2020 00:00
Sample wt/vol: 5.01(g) Date Analyzed: 11/10/2020 05:27
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture: 13.8 Level: (low/med) Low
Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.8	0.42
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.8	0.94
79-00-5	1,1,2-Trichloroethane	ND		5.8	0.75
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.8	1.3
75-34-3	1,1-Dichloroethane	ND		5.8	0.71
75-35-4	1,1-Dichloroethene	ND		5.8	0.71
120-82-1	1,2,4-Trichlorobenzene	ND		5.8	0.35
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.8	2.9
95-50-1	1,2-Dichlorobenzene	ND		5.8	0.45
107-06-2	1,2-Dichloroethane	ND		5.8	0.29
78-87-5	1,2-Dichloropropane	ND		5.8	2.9
541-73-1	1,3-Dichlorobenzene	ND		5.8	0.30
106-46-7	1,4-Dichlorobenzene	ND		5.8	0.81
78-93-3	2-Butanone (MEK)	ND		29	2.1
591-78-6	2-Hexanone	ND		29	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		29	1.9
67-64-1	Acetone	33		29	4.9
71-43-2	Benzene	ND		5.8	0.28
75-27-4	Bromodichloromethane	ND		5.8	0.78
75-25-2	Bromoform	ND		5.8	2.9
74-83-9	Bromomethane	ND		5.8	0.52
75-15-0	Carbon disulfide	5.7	J	5.8	2.9
56-23-5	Carbon tetrachloride	ND		5.8	0.56
108-90-7	Chlorobenzene	ND		5.8	0.76
124-48-1	Dibromochloromethane	ND		5.8	0.74
75-00-3	Chloroethane	ND		5.8	1.3
67-66-3	Chloroform	ND		5.8	0.36
74-87-3	Chloromethane	ND		5.8	0.35
156-59-2	cis-1,2-Dichloroethene	ND		5.8	0.74
10061-01-5	cis-1,3-Dichloropropene	ND		5.8	0.83
110-82-7	Cyclohexane	ND		5.8	0.81
75-71-8	Dichlorodifluoromethane	ND	UJ	5.8	0.48
100-41-4	Ethylbenzene	ND		5.8	0.40
106-93-4	1,2-Dibromoethane	ND		5.8	0.74
98-82-8	Isopropylbenzene	ND		5.8	0.87

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1
SDG No.: 480-177721
Client Sample ID: FD-110520-4 Lab Sample ID: 480-177832-19
Matrix: Solid Lab File ID: P6063.D
Analysis Method: 8260C Date Collected: 11/05/2020 00:00
Sample wt/vol: 5.01(g) Date Analyzed: 11/10/2020 05:27
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture: 13.8 Level: (low/med) Low
Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		29	3.5
1634-04-4	Methyl tert-butyl ether	ND		5.8	0.57
108-87-2	Methylcyclohexane	ND		5.8	0.88
75-09-2	Methylene Chloride	ND		5.8	2.7
100-42-5	Styrene	ND		5.8	0.29
127-18-4	Tetrachloroethene	ND		5.8	0.78
108-88-3	Toluene	0.65	J	5.8	0.44
156-60-5	trans-1,2-Dichloroethene	ND		5.8	0.60
10061-02-6	trans-1,3-Dichloropropene	ND		5.8	2.5
79-01-6	Trichloroethene	ND		5.8	1.3
75-69-4	Trichlorofluoromethane	ND		5.8	0.55
75-01-4	Vinyl chloride	ND		5.8	0.71
1330-20-7	Xylenes, Total	ND		12	0.97

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		64-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1
SDG No.: 480-177721
Client Sample ID: FD-110520-4 Lab Sample ID: 480-177832-19
Matrix: Solid Lab File ID: P6063.D
Analysis Method: 8260C Date Collected: 11/05/2020 00:00
Sample wt/vol: 5.01(g) Date Analyzed: 11/10/2020 05:27
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture: 13.8 Level: (low/med) Low
Analysis Batch No.: 558222 Units: ug/Kg
Number TICs Found: 1 TIC Result Total: 17

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	17	T,J,N	87%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-2-3 Lab Sample ID: 480-177832-38

Matrix: Solid Lab File ID: P6064.D

Analysis Method: 8260C Date Collected: 11/06/2020 08:07

Sample wt/vol: 4.03(g) Date Analyzed: 11/10/2020 05:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 9.1 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.8	0.50
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.8	1.1
79-00-5	1,1,2-Trichloroethane	ND		6.8	0.89
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	1.6
75-34-3	1,1-Dichloroethane	ND		6.8	0.83
75-35-4	1,1-Dichloroethene	ND		6.8	0.84
120-82-1	1,2,4-Trichlorobenzene	ND		6.8	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.8	3.4
95-50-1	1,2-Dichlorobenzene	ND		6.8	0.53
107-06-2	1,2-Dichloroethane	ND		6.8	0.34
78-87-5	1,2-Dichloropropane	ND		6.8	3.4
541-73-1	1,3-Dichlorobenzene	ND		6.8	0.35
106-46-7	1,4-Dichlorobenzene	ND		6.8	0.96
78-93-3	2-Butanone (MEK)	ND		34	2.5
591-78-6	2-Hexanone	ND		34	3.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		34	2.2
67-64-1	Acetone	ND		34	5.7
71-43-2	Benzene	ND		6.8	0.33
75-27-4	Bromodichloromethane	ND		6.8	0.91
75-25-2	Bromoform	ND		6.8	3.4
74-83-9	Bromomethane	ND		6.8	0.61
75-15-0	Carbon disulfide	ND		6.8	3.4
56-23-5	Carbon tetrachloride	ND		6.8	0.66
108-90-7	Chlorobenzene	ND		6.8	0.90
124-48-1	Dibromochloromethane	ND		6.8	0.87
75-00-3	Chloroethane	ND		6.8	1.5
67-66-3	Chloroform	ND		6.8	0.42
74-87-3	Chloromethane	ND		6.8	0.41
156-59-2	cis-1,2-Dichloroethene	ND		6.8	0.87
10061-01-5	cis-1,3-Dichloropropene	ND		6.8	0.98
110-82-7	Cyclohexane	ND		6.8	0.96
75-71-8	Dichlorodifluoromethane	ND	UJ	6.8	0.56
100-41-4	Ethylbenzene	ND		6.8	0.47
106-93-4	1,2-Dibromoethane	ND		6.8	0.88
98-82-8	Isopropylbenzene	ND		6.8	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-2-3 Lab Sample ID: 480-177832-38

Matrix: Solid Lab File ID: P6064.D

Analysis Method: 8260C Date Collected: 11/06/2020 08:07

Sample wt/vol: 4.03(g) Date Analyzed: 11/10/2020 05:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 9.1 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		34	4.1
1634-04-4	Methyl tert-butyl ether	ND		6.8	0.67
108-87-2	Methylcyclohexane	ND		6.8	1.0
75-09-2	Methylene Chloride	ND		6.8	3.1
100-42-5	Styrene	ND		6.8	0.34
127-18-4	Tetrachloroethene	ND		6.8	0.92
108-88-3	Toluene	0.77	J	6.8	0.52
156-60-5	trans-1,2-Dichloroethene	ND		6.8	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		6.8	3.0
79-01-6	Trichloroethene	ND		6.8	1.5
75-69-4	Trichlorofluoromethane	ND		6.8	0.65
75-01-4	Vinyl chloride	ND		6.8	0.83
1330-20-7	Xylenes, Total	ND		14	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		64-126
460-00-4	4-Bromofluorobenzene (Surr)	88		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-2-3 Lab Sample ID: 480-177832-38

Matrix: Solid Lab File ID: P6064.D

Analysis Method: 8260C Date Collected: 11/06/2020 08:07

Sample wt/vol: 4.03(g) Date Analyzed: 11/10/2020 05:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 9.1 Level: (low/med) Low

Analysis Batch No.: 558222 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 25

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	25	T J N	90%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-0-0.5 | Lab Sample ID: 480-177721-1

Matrix: Solid | Lab File ID: U33159304.D

Analysis Method: 8270D | Date Collected: 11/03/2020 15:00

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.03(g) | Date Analyzed: 11/10/2020 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		910	250
88-06-2	2,4,6-Trichlorophenol	ND		910	180
120-83-2	2,4-Dichlorophenol	ND		910	97
105-67-9	2,4-Dimethylphenol	ND		910	220
51-28-5	2,4-Dinitrophenol	ND		8900	4200
121-14-2	2,4-Dinitrotoluene	ND		910	190
606-20-2	2,6-Dinitrotoluene	ND		910	110
91-58-7	2-Chloronaphthalene	ND		910	150
95-57-8	2-Chlorophenol	ND		1800	170
91-57-6	2-Methylnaphthalene	ND		910	180
95-48-7	2-Methylphenol	ND		910	110
88-74-4	2-Nitroaniline	ND	UJ	1800	130
88-75-5	2-Nitrophenol	ND	UJ	910	260
91-94-1	3,3'-Dichlorobenzidine	ND		1800	1100
99-09-2	3-Nitroaniline	ND		1800	250
534-52-1	4,6-Dinitro-2-methylphenol	ND		1800	910
101-55-3	4-Bromophenyl phenyl ether	ND		910	130
59-50-7	4-Chloro-3-methylphenol	ND		910	230
106-47-8	4-Chloroaniline	ND		910	230
7005-72-3	4-Chlorophenyl phenyl ether	ND		910	110
106-44-5	4-Methylphenol	ND		1800	110
100-01-6	4-Nitroaniline	ND		1800	480
100-02-7	4-Nitrophenol	ND	UJ	1800	640
83-32-9	Acenaphthene	170	J	910	130
208-96-8	Acenaphthylene	ND		910	120
98-86-2	Acetophenone	ND		910	120
120-12-7	Anthracene	360	J	910	230
1912-24-9	Atrazine	ND		910	320
100-52-7	Benzaldehyde	ND		910	720
56-55-3	Benzo(a)anthracene	1200		910	91
50-32-8	Benzo(a)pyrene	1400		910	130
205-99-2	Benzo(b)fluoranthene	1600		910	140
191-24-2	Benzo(g,h,i)perylene	890	J	910	97
207-08-9	Benzo(k)fluoranthene	660	J	910	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-0-0.5 Lab Sample ID: 480-177721-1

Matrix: Solid Lab File ID: U33159304.D

Analysis Method: 8270D Date Collected: 11/03/2020 15:00

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.03(g) Date Analyzed: 11/10/2020 16:02

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 7.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		910	130
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	910	180
111-91-1	Bis(2-chloroethoxy)methane	ND		910	190
111-44-4	Bis(2-chloroethyl)ether	ND		910	120
117-81-7	Bis(2-ethylhexyl) phthalate	ND		910	310
85-68-7	Butyl benzyl phthalate	ND		910	150
105-60-2	Caprolactam	ND		910	270
86-74-8	Carbazole	160	J	910	110
218-01-9	Chrysene	1200		910	200
53-70-3	Dibenz(a,h)anthracene	230	J	910	160
132-64-9	Dibenzofuran	ND		910	110
84-66-2	Diethyl phthalate	ND		910	120
131-11-3	Dimethyl phthalate	ND		910	110
84-74-2	Di-n-butyl phthalate	ND		910	160
117-84-0	Di-n-octyl phthalate	ND	UJ	910	110
206-44-0	Fluoranthene	2200		910	97
86-73-7	Fluorene	120	J	910	110
118-74-1	Hexachlorobenzene	ND		910	120
87-68-3	Hexachlorobutadiene	ND		910	130
77-47-4	Hexachlorocyclopentadiene	ND	UJ	910	120
67-72-1	Hexachloroethane	ND		910	120
193-39-5	Indeno(1,2,3-cd)pyrene	790	J	910	110
78-59-1	Isophorone	ND		910	190
91-20-3	Naphthalene	ND		910	120
98-95-3	Nitrobenzene	ND		910	100
621-64-7	N-Nitrosodi-n-propylamine	ND		910	160
86-30-6	N-Nitrosodiphenylamine	ND		910	740
87-86-5	Pentachlorophenol	ND		1800	910
85-01-8	Phenanthrene	1400		910	130
108-95-2	Phenol	ND		910	140
129-00-0	Pyrene	1900		910	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-0-0.5 Lab Sample ID: 480-177721-1

Matrix: Solid Lab File ID: U33159304.D

Analysis Method: 8270D Date Collected: 11/03/2020 15:00

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.03(g) Date Analyzed: 11/10/2020 16:02

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 7.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 4860

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.05	3200	T J	
	Unknown	3.54	760	T J	
192-97-2	Benzo[e]pyrene	14.46	900	T J N	93%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 | Lab Sample ID: 480-177721-10

Matrix: Solid | Lab File ID: U33159305.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:35

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.19(g) | Date Analyzed: 11/10/2020 16:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		180	49
88-06-2	2,4,6-Trichlorophenol	ND		180	36
120-83-2	2,4-Dichlorophenol	ND		180	19
105-67-9	2,4-Dimethylphenol	ND		180	44
51-28-5	2,4-Dinitrophenol	ND		1800	840
121-14-2	2,4-Dinitrotoluene	ND		180	37
606-20-2	2,6-Dinitrotoluene	ND		180	21
91-58-7	2-Chloronaphthalene	ND		180	30
95-57-8	2-Chlorophenol	ND		350	33
91-57-6	2-Methylnaphthalene	ND		180	36
95-48-7	2-Methylphenol	ND		180	21
88-74-4	2-Nitroaniline	ND	UJ	350	27
88-75-5	2-Nitrophenol	ND	UJ	180	51
91-94-1	3,3'-Dichlorobenzidine	ND		350	210
99-09-2	3-Nitroaniline	ND		350	50
534-52-1	4,6-Dinitro-2-methylphenol	ND		350	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	26
59-50-7	4-Chloro-3-methylphenol	ND		180	45
106-47-8	4-Chloroaniline	ND		180	45
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	22
106-44-5	4-Methylphenol	ND		350	21
100-01-6	4-Nitroaniline	ND		350	95
100-02-7	4-Nitrophenol	ND	UJ	350	130
83-32-9	Acenaphthene	ND		180	27
208-96-8	Acenaphthylene	ND		180	23
98-86-2	Acetophenone	ND		180	25
120-12-7	Anthracene	ND		180	45
1912-24-9	Atrazine	ND		180	63
100-52-7	Benzaldehyde	ND		180	140
56-55-3	Benzo(a)anthracene	ND		180	18
50-32-8	Benzo(a)pyrene	ND		180	27
205-99-2	Benzo(b)fluoranthene	ND		180	29
191-24-2	Benzo(g,h,i)perylene	ND		180	19
207-08-9	Benzo(k)fluoranthene	ND		180	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 | Lab Sample ID: 480-177721-10

Matrix: Solid | Lab File ID: U33159305.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:35

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.19(g) | Date Analyzed: 11/10/2020 16:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	27
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	180	36
111-91-1	Bis(2-chloroethoxy)methane	ND		180	38
111-44-4	Bis(2-chloroethyl)ether	ND		180	23
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	62
85-68-7	Butyl benzyl phthalate	ND		180	30
105-60-2	Caprolactam	ND		180	54
86-74-8	Carbazole	ND		180	21
218-01-9	Chrysene	ND		180	40
53-70-3	Dibenz(a,h)anthracene	ND		180	32
132-64-9	Dibenzofuran	ND		180	21
84-66-2	Diethyl phthalate	ND		180	23
131-11-3	Dimethyl phthalate	ND		180	21
84-74-2	Di-n-butyl phthalate	ND		180	31
117-84-0	Di-n-octyl phthalate	ND	UJ	180	21
206-44-0	Fluoranthene	ND		180	19
86-73-7	Fluorene	ND		180	21
118-74-1	Hexachlorobenzene	ND		180	25
87-68-3	Hexachlorobutadiene	ND		180	27
77-47-4	Hexachlorocyclopentadiene	ND	UJ	180	25
67-72-1	Hexachloroethane	ND		180	23
193-39-5	Indeno(1,2,3-cd)pyrene	ND		180	22
78-59-1	Isophorone	ND		180	38
91-20-3	Naphthalene	ND		180	23
98-95-3	Nitrobenzene	ND		180	20
621-64-7	N-Nitrosodi-n-propylamine	ND		180	31
86-30-6	N-Nitrosodiphenylamine	ND		180	150
87-86-5	Pentachlorophenol	ND		350	180
85-01-8	Phenanthrene	ND		180	27
108-95-2	Phenol	ND		180	28
129-00-0	Pyrene	ND		180	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-1.5-2.5 Lab Sample ID: 480-177721-10

Matrix: Solid Lab File ID: U33159305.D

Analysis Method: 8270D Date Collected: 11/04/2020 09:35

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.19(g) Date Analyzed: 11/10/2020 16:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 6.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 3240

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.85	240	T J	
	Unknown	2.05	1700	T J	
	Unknown	3.53	1300	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-4-5 | Lab Sample ID: 480-177721-11

Matrix: Solid | Lab File ID: U33159306.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:35

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.07(g) | Date Analyzed: 11/10/2020 16:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 4.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		180	48
88-06-2	2,4,6-Trichlorophenol	ND		180	36
120-83-2	2,4-Dichlorophenol	ND		180	19
105-67-9	2,4-Dimethylphenol	ND		180	43
51-28-5	2,4-Dinitrophenol	ND		1700	820
121-14-2	2,4-Dinitrotoluene	ND		180	37
606-20-2	2,6-Dinitrotoluene	ND		180	21
91-58-7	2-Chloronaphthalene	ND		180	29
95-57-8	2-Chlorophenol	ND		350	32
91-57-6	2-Methylnaphthalene	ND		180	36
95-48-7	2-Methylphenol	ND		180	21
88-74-4	2-Nitroaniline	ND	UJ	350	26
88-75-5	2-Nitrophenol	ND	UJ	180	50
91-94-1	3,3'-Dichlorobenzidine	ND		350	210
99-09-2	3-Nitroaniline	ND		350	49
534-52-1	4,6-Dinitro-2-methylphenol	ND		350	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	25
59-50-7	4-Chloro-3-methylphenol	ND		180	44
106-47-8	4-Chloroaniline	ND		180	44
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	22
106-44-5	4-Methylphenol	ND		350	21
100-01-6	4-Nitroaniline	ND		350	93
100-02-7	4-Nitrophenol	ND	UJ	350	120
83-32-9	Acenaphthene	ND		180	26
208-96-8	Acenaphthylene	ND		180	23
98-86-2	Acetophenone	ND		180	24
120-12-7	Anthracene	ND		180	44
1912-24-9	Atrazine	ND		180	62
100-52-7	Benzaldehyde	ND		180	140
56-55-3	Benzo(a)anthracene	110	J	180	18
50-32-8	Benzo(a)pyrene	110	J	180	26
205-99-2	Benzo(b)fluoranthene	110	J	180	28
191-24-2	Benzo(g,h,i)perylene	77	J	180	19
207-08-9	Benzo(k)fluoranthene	75	J	180	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-4-5 Lab Sample ID: 480-177721-11

Matrix: Solid Lab File ID: U33159306.D

Analysis Method: 8270D Date Collected: 11/04/2020 09:35

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.07(g) Date Analyzed: 11/10/2020 16:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 4.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	26
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	180	36
111-91-1	Bis(2-chloroethoxy)methane	ND		180	38
111-44-4	Bis(2-chloroethyl)ether	ND		180	23
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	61
85-68-7	Butyl benzyl phthalate	ND		180	29
105-60-2	Caprolactam	ND		180	53
86-74-8	Carbazole	ND		180	21
218-01-9	Chrysene	110	J	180	40
53-70-3	Dibenz(a,h)anthracene	ND		180	31
132-64-9	Dibenzofuran	ND		180	21
84-66-2	Diethyl phthalate	ND		180	23
131-11-3	Dimethyl phthalate	ND		180	21
84-74-2	Di-n-butyl phthalate	ND		180	30
117-84-0	Di-n-octyl phthalate	ND	UJ	180	21
206-44-0	Fluoranthene	230		180	19
86-73-7	Fluorene	ND		180	21
118-74-1	Hexachlorobenzene	ND		180	24
87-68-3	Hexachlorobutadiene	ND		180	26
77-47-4	Hexachlorocyclopentadiene	ND	UJ	180	24
67-72-1	Hexachloroethane	ND		180	23
193-39-5	Indeno(1,2,3-cd)pyrene	62	J	180	22
78-59-1	Isophorone	ND		180	38
91-20-3	Naphthalene	ND		180	23
98-95-3	Nitrobenzene	ND		180	20
621-64-7	N-Nitrosodi-n-propylamine	ND		180	30
86-30-6	N-Nitrosodiphenylamine	ND		180	140
87-86-5	Pentachlorophenol	ND		350	180
85-01-8	Phenanthrene	140	J	180	26
108-95-2	Phenol	ND		180	27
129-00-0	Pyrene	190		180	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-78-20-4-5 Lab Sample ID: 480-177721-11

Matrix: Solid Lab File ID: U33159306.D

Analysis Method: 8270D Date Collected: 11/04/2020 09:35

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.07(g) Date Analyzed: 11/10/2020 16:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 4.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 1490

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.05	1200	T J	
	Unknown	3.54	290	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-0-1 | Lab Sample ID: 480-177721-12

Matrix: Solid | Lab File ID: U33159307.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:55

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.28(g) | Date Analyzed: 11/10/2020 17:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		990	270
88-06-2	2,4,6-Trichlorophenol	ND		990	200
120-83-2	2,4-Dichlorophenol	ND		990	110
105-67-9	2,4-Dimethylphenol	ND		990	240
51-28-5	2,4-Dinitrophenol	ND		9700	4600
121-14-2	2,4-Dinitrotoluene	ND		990	200
606-20-2	2,6-Dinitrotoluene	ND		990	120
91-58-7	2-Chloronaphthalene	ND		990	160
95-57-8	2-Chlorophenol	ND		1900	180
91-57-6	2-Methylnaphthalene	ND		990	200
95-48-7	2-Methylphenol	ND		990	120
88-74-4	2-Nitroaniline	ND	UJ	1900	150
88-75-5	2-Nitrophenol	ND	UJ	990	280
91-94-1	3,3'-Dichlorobenzidine	ND		1900	1200
99-09-2	3-Nitroaniline	ND		1900	270
534-52-1	4,6-Dinitro-2-methylphenol	ND		1900	990
101-55-3	4-Bromophenyl phenyl ether	ND		990	140
59-50-7	4-Chloro-3-methylphenol	ND		990	250
106-47-8	4-Chloroaniline	ND		990	250
7005-72-3	4-Chlorophenyl phenyl ether	ND		990	120
106-44-5	4-Methylphenol	ND		1900	120
100-01-6	4-Nitroaniline	ND		1900	520
100-02-7	4-Nitrophenol	ND	UJ	1900	700
83-32-9	Acenaphthene	ND		990	150
208-96-8	Acenaphthylene	200	J	990	130
98-86-2	Acetophenone	ND		990	130
120-12-7	Anthracene	ND		990	250
1912-24-9	Atrazine	ND		990	350
100-52-7	Benzaldehyde	ND		990	790
56-55-3	Benzo(a)anthracene	290	J	990	99
50-32-8	Benzo(a)pyrene	400	J	990	150
205-99-2	Benzo(b)fluoranthene	710	J	990	160
191-24-2	Benzo(g,h,i)perylene	420	J	990	110
207-08-9	Benzo(k)fluoranthene	310	J	990	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-0-1 | Lab Sample ID: 480-177721-12

Matrix: Solid | Lab File ID: U33159307.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:55

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.28(g) | Date Analyzed: 11/10/2020 17:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		990	150
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	990	200
111-91-1	Bis(2-chloroethoxy)methane	ND		990	210
111-44-4	Bis(2-chloroethyl)ether	ND		990	130
117-81-7	Bis(2-ethylhexyl) phthalate	ND		990	340
85-68-7	Butyl benzyl phthalate	ND		990	160
105-60-2	Caprolactam	ND		990	300
86-74-8	Carbazole	ND		990	120
218-01-9	Chrysene	490	J	990	220
53-70-3	Dibenz(a,h)anthracene	ND		990	180
132-64-9	Dibenzofuran	ND		990	120
84-66-2	Diethyl phthalate	ND		990	130
131-11-3	Dimethyl phthalate	ND		990	120
84-74-2	Di-n-butyl phthalate	ND		990	170
117-84-0	Di-n-octyl phthalate	ND	UJ	990	120
206-44-0	Fluoranthene	650	J	990	110
86-73-7	Fluorene	ND		990	120
118-74-1	Hexachlorobenzene	ND		990	130
87-68-3	Hexachlorobutadiene	ND		990	150
77-47-4	Hexachlorocyclopentadiene	ND	UJ	990	130
67-72-1	Hexachloroethane	ND		990	130
193-39-5	Indeno(1,2,3-cd)pyrene	340	J	990	120
78-59-1	Isophorone	ND		990	210
91-20-3	Naphthalene	ND		990	130
98-95-3	Nitrobenzene	ND		990	110
621-64-7	N-Nitrosodi-n-propylamine	ND		990	170
86-30-6	N-Nitrosodiphenylamine	ND		990	810
87-86-5	Pentachlorophenol	ND		1900	990
85-01-8	Phenanthrene	190	J	990	150
108-95-2	Phenol	ND		990	150
129-00-0	Pyrene	510	J	990	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-0-1 Lab Sample ID: 480-177721-12

Matrix: Solid Lab File ID: U33159307.D

Analysis Method: 8270D Date Collected: 11/04/2020 09:55

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.28(g) Date Analyzed: 11/10/2020 17:16

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 15.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-3.5-4.5 | Lab Sample ID: 480-177721-13

Matrix: Solid | Lab File ID: U33159308.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:55

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.22(g) | Date Analyzed: 11/10/2020 17:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		180	49
88-06-2	2,4,6-Trichlorophenol	ND		180	36
120-83-2	2,4-Dichlorophenol	ND		180	19
105-67-9	2,4-Dimethylphenol	ND		180	43
51-28-5	2,4-Dinitrophenol	ND		1800	830
121-14-2	2,4-Dinitrotoluene	ND		180	37
606-20-2	2,6-Dinitrotoluene	ND		180	21
91-58-7	2-Chloronaphthalene	ND		180	30
95-57-8	2-Chlorophenol	ND		350	33
91-57-6	2-Methylnaphthalene	ND		180	36
95-48-7	2-Methylphenol	ND		180	21
88-74-4	2-Nitroaniline	ND	UJ	350	26
88-75-5	2-Nitrophenol	ND	UJ	180	51
91-94-1	3,3'-Dichlorobenzidine	ND		350	210
99-09-2	3-Nitroaniline	ND		350	50
534-52-1	4,6-Dinitro-2-methylphenol	ND		350	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	25
59-50-7	4-Chloro-3-methylphenol	ND		180	44
106-47-8	4-Chloroaniline	ND		180	44
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	22
106-44-5	4-Methylphenol	ND		350	21
100-01-6	4-Nitroaniline	ND		350	94
100-02-7	4-Nitrophenol	ND	UJ	350	130
83-32-9	Acenaphthene	ND		180	26
208-96-8	Acenaphthylene	ND		180	23
98-86-2	Acetophenone	ND		180	24
120-12-7	Anthracene	ND		180	44
1912-24-9	Atrazine	ND		180	62
100-52-7	Benzaldehyde	ND		180	140
56-55-3	Benzo(a)anthracene	ND		180	18
50-32-8	Benzo(a)pyrene	ND		180	26
205-99-2	Benzo(b)fluoranthene	ND		180	29
191-24-2	Benzo(g,h,i)perylene	ND		180	19
207-08-9	Benzo(k)fluoranthene	ND		180	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-3.5-4.5 | Lab Sample ID: 480-177721-13

Matrix: Solid | Lab File ID: U33159308.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:55

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.22(g) | Date Analyzed: 11/10/2020 17:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	26
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	180	36
111-91-1	Bis(2-chloroethoxy)methane	ND		180	38
111-44-4	Bis(2-chloroethyl)ether	ND		180	23
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	61
85-68-7	Butyl benzyl phthalate	ND		180	30
105-60-2	Caprolactam	ND		180	54
86-74-8	Carbazole	ND		180	21
218-01-9	Chrysene	ND		180	40
53-70-3	Dibenz(a,h)anthracene	ND		180	32
132-64-9	Dibenzofuran	ND		180	21
84-66-2	Diethyl phthalate	ND		180	23
131-11-3	Dimethyl phthalate	ND		180	21
84-74-2	Di-n-butyl phthalate	ND		180	31
117-84-0	Di-n-octyl phthalate	ND		180	21
206-44-0	Fluoranthene	ND	UJ	180	19
86-73-7	Fluorene	ND		180	21
118-74-1	Hexachlorobenzene	ND		180	24
87-68-3	Hexachlorobutadiene	ND		180	26
77-47-4	Hexachlorocyclopentadiene	ND	UJ	180	24
67-72-1	Hexachloroethane	ND		180	23
193-39-5	Indeno(1,2,3-cd)pyrene	ND		180	22
78-59-1	Isophorone	ND		180	38
91-20-3	Naphthalene	ND		180	23
98-95-3	Nitrobenzene	ND		180	20
621-64-7	N-Nitrosodi-n-propylamine	ND		180	31
86-30-6	N-Nitrosodiphenylamine	ND		180	150
87-86-5	Pentachlorophenol	ND		350	180
85-01-8	Phenanthrene	ND		180	26
108-95-2	Phenol	ND		180	28
129-00-0	Pyrene	ND		180	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-79-20-3.5-4.5 | Lab Sample ID: 480-177721-13

Matrix: Solid | Lab File ID: U33159308.D

Analysis Method: 8270D | Date Collected: 11/04/2020 09:55

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.22(g) | Date Analyzed: 11/10/2020 17:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

Number TICs Found: 11 | TIC Result Total: 4200

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.04	1600	T J	
	Unknown	3.52	630	T J	
79-34-5	Ethane, 1,1,2,2-tetrachloro-	4.67	180	T J N	97%
	Unknown	9.72	160	T J	
544-76-3	Hexadecane	9.93	180	T J N	96%
	Unknown	10.18	180	T J	
629-78-7	Heptadecane	10.45	350	T J N	97%
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.47	230	T J N	90%
593-45-3	Octadecane	10.91	300	T J N	96%
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	10.94	210	T J N	87%
629-92-5	Nonadecane	11.33	180	T J N	94%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-1 | Lab Sample ID: 480-177721-24

Matrix: Solid | Lab File ID: U33159297.D

Analysis Method: 8270D | Date Collected: 11/04/2020 12:50

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.51(g) | Date Analyzed: 11/10/2020 13:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		880	240
88-06-2	2,4,6-Trichlorophenol	ND		880	180
120-83-2	2,4-Dichlorophenol	ND		880	93
105-67-9	2,4-Dimethylphenol	ND		880	210
51-28-5	2,4-Dinitrophenol	ND		8600	4100
121-14-2	2,4-Dinitrotoluene	ND		880	180
606-20-2	2,6-Dinitrotoluene	ND		880	100
91-58-7	2-Chloronaphthalene	ND		880	150
95-57-8	2-Chlorophenol	ND		1700	160
91-57-6	2-Methylnaphthalene	ND		880	180
95-48-7	2-Methylphenol	ND		880	100
88-74-4	2-Nitroaniline	ND	UJ	1700	130
88-75-5	2-Nitrophenol	ND	UJ	880	250
91-94-1	3,3'-Dichlorobenzidine	ND		1700	1000
99-09-2	3-Nitroaniline	ND		1700	240
534-52-1	4,6-Dinitro-2-methylphenol	ND		1700	880
101-55-3	4-Bromophenyl phenyl ether	ND		880	120
59-50-7	4-Chloro-3-methylphenol	ND		880	220
106-47-8	4-Chloroaniline	ND		880	220
7005-72-3	4-Chlorophenyl phenyl ether	ND		880	110
106-44-5	4-Methylphenol	ND		1700	100
100-01-6	4-Nitroaniline	ND		1700	460
100-02-7	4-Nitrophenol	ND	UJ	1700	620
83-32-9	Acenaphthene	1600		880	130
208-96-8	Acenaphthylene	200	J	880	110
98-86-2	Acetophenone	ND		880	120
120-12-7	Anthracene	3300		880	220
1912-24-9	Atrazine	ND		880	310
100-52-7	Benzaldehyde	ND		880	700
56-55-3	Benzo(a)anthracene	13000		880	88
50-32-8	Benzo(a)pyrene	14000		880	130
205-99-2	Benzo(b)fluoranthene	15000		880	140
191-24-2	Benzo(g,h,i)perylene	7000		880	93
207-08-9	Benzo(k)fluoranthene	7800		880	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-1 | Lab Sample ID: 480-177721-24

Matrix: Solid | Lab File ID: U33159297.D

Analysis Method: 8270D | Date Collected: 11/04/2020 12:50

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.51(g) | Date Analyzed: 11/10/2020 13:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		880	130
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	880	180
111-91-1	Bis(2-chloroethoxy)methane	ND		880	190
111-44-4	Bis(2-chloroethyl)ether	ND		880	110
117-81-7	Bis(2-ethylhexyl) phthalate	ND		880	300
85-68-7	Butyl benzyl phthalate	ND		880	150
105-60-2	Caprolactam	ND		880	260
86-74-8	Carbazole	2000		880	100
218-01-9	Chrysene	12000		880	200
53-70-3	Dibenz(a,h)anthracene	2400		880	160
132-64-9	Dibenzofuran	700	J	880	100
84-66-2	Diethyl phthalate	ND		880	110
131-11-3	Dimethyl phthalate	ND		880	100
84-74-2	Di-n-butyl phthalate	ND		880	150
117-84-0	Di-n-octyl phthalate	ND	UJ	880	100
* 206-44-0	Fluoranthene	28000	E	880	93
86-73-7	Fluorene	1400		880	100
118-74-1	Hexachlorobenzene	ND		880	120
87-68-3	Hexachlorobutadiene	ND		880	130
77-47-4	Hexachlorocyclopentadiene	ND	UJ	880	120
67-72-1	Hexachloroethane	ND		880	110
193-39-5	Indeno(1,2,3-cd)pyrene	6600		880	110
78-59-1	Isophorone	ND		880	190
91-20-3	Naphthalene	350	J	880	110
98-95-3	Nitrobenzene	ND		880	99
621-64-7	N-Nitrosodi-n-propylamine	ND		880	150
86-30-6	N-Nitrosodiphenylamine	ND		880	720
87-86-5	Pentachlorophenol	ND		1700	880
85-01-8	Phenanthrene	17000		880	130
108-95-2	Phenol	ND		880	130
129-00-0	Pyrene	21000		880	100

*Reported from 20x dilution

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-1 | Lab Sample ID: 480-177721-24

Matrix: Solid | Lab File ID: U33159297.D

Analysis Method: 8270D | Date Collected: 11/04/2020 12:50

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.51(g) | Date Analyzed: 11/10/2020 13:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 48600

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.05	2200	T J	
832-69-9	Phenanthrene, 1-methyl-	11.48	2000	T J N	97%
779-02-2	Anthracene, 9-methyl-	11.50	2700	T J N	93%
	Unknown	11.58	4200	T J	
2531-84-2	Phenanthrene, 2-methyl-	11.60	1400	T J N	97%
35465-71-5	2-Phenylnaphthalene	11.76	1400	T J N	94%
3674-66-6	Phenanthrene, 2,5-dimethyl-	11.99	1300	T J N	93%
5737-13-3	Cyclopenta(def)phenanthrenone	12.06	1900	T J N	90%
1090-13-7	5,12-Naphthacenedione	13.97	1400	T J N	98%
	Unknown	14.12	1600	T J	
	Unknown	14.32	1900	T J	
198-55-0	Perylene	14.46	8300	T J N	97%
	Unknown	14.57	4000	T J	
226-88-0	Benzo[a]naphthacene	15.38	1700	T J N	89%
191-26-4	Dibenzo[def,mno]chrysene	15.40	1600	T J N	94%
	Unknown	15.60	2200	T J	
1000213-60-7	N-[4-Amino-3-nitrophenyl]-N-nitroso-4-chlorobenzylamine	15.91	2700	T J N	95%
191-30-0	1,2:3,4-Dibenzopyrene	17.04	2700	T J N	97%
848-62-4	Pregnan-20-one, (5.alpha.)-	17.14	1700	T J N	89%
	Unknown	17.72	1700	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-1 DL | Lab Sample ID: 480-177721-24 DL

Matrix: Solid | Lab File ID: U33159313.D

Analysis Method: 8270D | Date Collected: 11/04/2020 12:50

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.51(g) | Date Analyzed: 11/10/2020 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		3500	950
88-06-2	2,4,6-Trichlorophenol	ND		3500	710
120-83-2	2,4-Dichlorophenol	ND		3500	370
105-67-9	2,4-Dimethylphenol	ND		3500	850
51-28-5	2,4-Dinitrophenol	ND		34000	16000
121-14-2	2,4-Dinitrotoluene	ND		3500	730
606-20-2	2,6-Dinitrotoluene	ND		3500	420
91-58-7	2-Chloronaphthalene	ND		3500	580
95-57-8	2-Chlorophenol	ND		6800	640
91-57-6	2-Methylnaphthalene	ND		3500	710
95-48-7	2-Methylphenol	ND		3500	420
88-74-4	2-Nitroaniline	ND		6800	520
88-75-5	2-Nitrophenol	ND		3500	1000
91-94-1	3,3'-Dichlorobenzidine	ND		6800	4200
99-09-2	3-Nitroaniline	ND		6800	980
534-52-1	4,6-Dinitro-2-methylphenol	ND		6800	3500
101-55-3	4-Bromophenyl phenyl ether	ND		3500	500
59-50-7	4-Chloro-3-methylphenol	ND		3500	870
106-47-8	4-Chloroaniline	ND		3500	870
7005-72-3	4-Chlorophenyl phenyl ether	ND		3500	440
106-44-5	4-Methylphenol	ND		6800	420
100-01-6	4-Nitroaniline	ND		6800	1800
100-02-7	4-Nitrophenol	ND		6800	2500
83-32-9	Acenaphthene	1700	J	3500	520
208-96-8	Acenaphthylene	ND		3500	460
98-86-2	Acetophenone	ND		3500	480
120-12-7	Anthracene	3200	J	3500	870
1912-24-9	Atrazine	ND		3500	1200
100-52-7	Benzaldehyde	ND		3500	2800
56-55-3	Benzo(a)anthracene	13000		3500	350
50-32-8	Benzo(a)pyrene	14000		3500	520
205-99-2	Benzo(b)fluoranthene	16000		3500	560
191-24-2	Benzo(g,h,i)perylene	7300		3500	370
207-08-9	Benzo(k)fluoranthene	7400		3500	460

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-1 DL | Lab Sample ID: 480-177721-24 DL

Matrix: Solid | Lab File ID: U33159313.D

Analysis Method: 8270D | Date Collected: 11/04/2020 12:50

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.51(g) | Date Analyzed: 11/10/2020 19:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		3500	520
108-60-1	bis (2-chloroisopropyl) ether	ND		3500	710
111-91-1	Bis(2-chloroethoxy)methane	ND		3500	750
111-44-4	Bis(2-chloroethyl)ether	ND		3500	460
117-81-7	Bis(2-ethylhexyl) phthalate	ND		3500	1200
85-68-7	Butyl benzyl phthalate	ND		3500	580
105-60-2	Caprolactam	ND		3500	1100
86-74-8	Carbazole	2000	J	3500	420
218-01-9	Chrysene	13000		3500	790
53-70-3	Dibenz(a,h)anthracene	2400	J	3500	620
132-64-9	Dibenzofuran	660	J	3500	420
84-66-2	Diethyl phthalate	ND		3500	460
131-11-3	Dimethyl phthalate	ND		3500	420
84-74-2	Di-n-butyl phthalate	ND		3500	600
117-84-0	Di-n-octyl phthalate	ND		3500	420
206-44-0	Fluoranthene	29000		3500	370
86-73-7	Fluorene	1300	J	3500	420
118-74-1	Hexachlorobenzene	ND		3500	480
87-68-3	Hexachlorobutadiene	ND		3500	520
77-47-4	Hexachlorocyclopentadiene	ND		3500	480
67-72-1	Hexachloroethane	ND		3500	460
193-39-5	Indeno(1,2,3-cd)pyrene	6400		3500	440
78-59-1	Isophorone	ND		3500	750
91-20-3	Naphthalene	ND		3500	460
98-95-3	Nitrobenzene	ND		3500	390
621-64-7	N-Nitrosodi-n-propylamine	ND		3500	600
86-30-6	N-Nitrosodiphenylamine	ND		3500	2900
87-86-5	Pentachlorophenol	ND		6800	3500
85-01-8	Phenanthrene	17000		3500	520
108-95-2	Phenol	ND		3500	540
129-00-0	Pyrene	21000		3500	420

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-1 DL Lab Sample ID: 480-177721-24 DL

Matrix: Solid Lab File ID: U33159313.D

Analysis Method: 8270D Date Collected: 11/04/2020 12:50

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.51(g) Date Analyzed: 11/10/2020 19:46

Con. Extract Vol.: 1(mL) Dilution Factor: 20

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 5.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 24100

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	11.58	4200	T J	
198-55-0	Perylene	14.46	9600	T J N	97%
205-82-3	Benzo[j]fluoranthene	14.57	4400	T J N	96%
191-26-4	Dibenzo[def,mno]chrysene	15.90	3000	T J N	96%
5385-75-1	Dibenz(a,e)aceanthrylene	17.03	2900	T J N	94%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-1 | Lab Sample ID: 480-177721-26

Matrix: Solid | Lab File ID: U33159309.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:05

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.12(g) | Date Analyzed: 11/10/2020 18:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		20000	5500
88-06-2	2,4,6-Trichlorophenol	ND		20000	4100
120-83-2	2,4-Dichlorophenol	ND		20000	2200
105-67-9	2,4-Dimethylphenol	ND		20000	4900
51-28-5	2,4-Dinitrophenol	ND		200000	94000
121-14-2	2,4-Dinitrotoluene	ND		20000	4200
606-20-2	2,6-Dinitrotoluene	ND		20000	2400
91-58-7	2-Chloronaphthalene	ND		20000	3400
95-57-8	2-Chlorophenol	ND		40000	3700
91-57-6	2-Methylnaphthalene	7900	J	20000	4100
95-48-7	2-Methylphenol	ND		20000	2400
88-74-4	2-Nitroaniline	ND	UJ	40000	3000
88-75-5	2-Nitrophenol	ND	UJ	20000	5800
91-94-1	3,3'-Dichlorobenzidine	ND		40000	24000
99-09-2	3-Nitroaniline	ND		40000	5700
534-52-1	4,6-Dinitro-2-methylphenol	ND		40000	20000
101-55-3	4-Bromophenyl phenyl ether	ND		20000	2900
59-50-7	4-Chloro-3-methylphenol	ND		20000	5100
106-47-8	4-Chloroaniline	ND		20000	5100
7005-72-3	4-Chlorophenyl phenyl ether	ND		20000	2500
106-44-5	4-Methylphenol	ND		40000	2400
100-01-6	4-Nitroaniline	ND		40000	11000
100-02-7	4-Nitrophenol	ND	UJ	40000	14000
83-32-9	Acenaphthene	68000		20000	3000
208-96-8	Acenaphthylene	4300	J	20000	2600
98-86-2	Acetophenone	ND		20000	2800
120-12-7	Anthracene	130000		20000	5100
1912-24-9	Atrazine	ND		20000	7100
100-52-7	Benzaldehyde	ND		20000	16000
56-55-3	Benzo(a)anthracene	420000		20000	2000
50-32-8	Benzo(a)pyrene	470000		20000	3000
205-99-2	Benzo(b)fluoranthene	540000		20000	3300
191-24-2	Benzo(g,h,i)perylene	250000		20000	2200
207-08-9	Benzo(k)fluoranthene	200000		20000	2600

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-1 Lab Sample ID: 480-177721-26

Matrix: Solid Lab File ID: U33159309.D

Analysis Method: 8270D Date Collected: 11/04/2020 13:05

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.12(g) Date Analyzed: 11/10/2020 18:06

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 17.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
	92-52-4	Biphenyl	ND		20000	3000
	108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	20000	4100
	111-91-1	Bis(2-chloroethoxy)methane	ND		20000	4300
	111-44-4	Bis(2-chloroethyl)ether	ND		20000	2600
	117-81-7	Bis(2-ethylhexyl) phthalate	ND		20000	7000
	85-68-7	Butyl benzyl phthalate	ND		20000	3400
	105-60-2	Caprolactam	ND		20000	6100
	86-74-8	Carbazole	80000		20000	2400
	218-01-9	Chrysene	420000		20000	4600
	53-70-3	Dibenz(a,h)anthracene	77000		20000	3600
	132-64-9	Dibenzofuran	32000		20000	2400
	84-66-2	Diethyl phthalate	ND		20000	2600
	131-11-3	Dimethyl phthalate	ND		20000	2400
	84-74-2	Di-n-butyl phthalate	ND		20000	3500
	117-84-0	Di-n-octyl phthalate	ND	UJ	20000	2400
*	~~206-44-0~~	~~Fluoranthene~~	~~1100000~~	~~E~~	~~20000~~	~~2200~~
	86-73-7	Fluorene	59000		20000	2400
	118-74-1	Hexachlorobenzene	ND		20000	2800
	87-68-3	Hexachlorobutadiene	ND		20000	3000
	77-47-4	Hexachlorocyclopentadiene	ND	UJ	20000	2800
	67-72-1	Hexachloroethane	ND		20000	2600
	193-39-5	Indeno(1,2,3-cd)pyrene	230000		20000	2500
	78-59-1	Isophorone	ND		20000	4300
	91-20-3	Naphthalene	16000	J	20000	2600
	98-95-3	Nitrobenzene	ND		20000	2300
	621-64-7	N-Nitrosodi-n-propylamine	ND		20000	3500
	86-30-6	N-Nitrosodiphenylamine	ND		20000	17000
	87-86-5	Pentachlorophenol	ND		40000	20000
*	~~85-01-8~~	~~Phenanthrene~~	~~680000~~	~~E~~	~~20000~~	~~3000~~
	108-95-2	Phenol	ND		20000	3100
*	~~129-00-0~~	~~Pyrene~~	~~770000~~	~~E~~	~~20000~~	~~2400~~

*Report from 50x dilution

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-1 | Lab Sample ID: 480-177721-26

Matrix: Solid | Lab File ID: U33159309.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:05

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.12(g) | Date Analyzed: 11/10/2020 18:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

Number TICs Found: 19 | TIC Result Total: 1.554e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
613-12-7	Anthracene, 2-methyl-	11.48	59000	T J N	94%
2531-84-2	Phenanthrene, 2-methyl-	11.50	89000	T J N	95%
	Unknown	11.58	140000	T J	
832-69-9	Phenanthrene, 1-methyl-	11.60	42000	T J N	91%
35465-71-5	2-Phenylnaphthalene	11.76	49000	T J N	95%
84-65-1	9,10-Anthracenedione	11.78	68000	T J N	99%
5737-13-3	Cyclopenta(def)phenanthrenone	12.06	50000	T J N	87%
1090-13-7	5,12-Naphthacenedione	13.98	43000	T J N	97%
	Unknown	14.12	49000	T J	
198-55-0	Perylene	14.32	60000	T J N	92%
205-82-3	Benzo[j]fluoranthene	14.47	290000	T J N	90%
192-97-2	Benzo[e]pyrene	14.57	140000	T J N	90%
	Unknown	15.38	54000	T J	
195-06-2	Naphtho[1,2-A]anthracene	15.60	65000	T J N	89%
191-26-4	Dibenzo[def,mno]chrysene	15.91	91000	T J N	96%
189-64-0	3,4:8,9-Dibenzopyrene	17.04	88000	T J N	98%
191-30-0	1,2:3,4-Dibenzopyrene	17.14	65000	T J N	98%
	Unknown	17.19	48000	T J	
	Unknown	17.72	64000	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-1 DL | Lab Sample ID: 480-177721-26 DL

Matrix: Solid | Lab File ID: X21470964.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:05

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.12(g) | Date Analyzed: 11/11/2020 11:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558499 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		100000	28000
88-06-2	2,4,6-Trichlorophenol	ND		100000	20000
120-83-2	2,4-Dichlorophenol	ND		100000	11000
105-67-9	2,4-Dimethylphenol	ND		100000	25000
51-28-5	2,4-Dinitrophenol	ND		1000000	470000
121-14-2	2,4-Dinitrotoluene	ND		100000	21000
606-20-2	2,6-Dinitrotoluene	ND		100000	12000
91-58-7	2-Chloronaphthalene	ND		100000	17000
95-57-8	2-Chlorophenol	ND		200000	19000
91-57-6	2-Methylnaphthalene	ND		100000	20000
95-48-7	2-Methylphenol	ND		100000	12000
88-74-4	2-Nitroaniline	ND		200000	15000
88-75-5	2-Nitrophenol	ND		100000	29000
91-94-1	3,3'-Dichlorobenzidine	ND		200000	120000
99-09-2	3-Nitroaniline	ND		200000	28000
534-52-1	4,6-Dinitro-2-methylphenol	ND		200000	100000
101-55-3	4-Bromophenyl phenyl ether	ND		100000	14000
59-50-7	4-Chloro-3-methylphenol	ND		100000	25000
106-47-8	4-Chloroaniline	ND		100000	25000
7005-72-3	4-Chlorophenyl phenyl ether	ND		100000	13000
106-44-5	4-Methylphenol	ND		200000	12000
100-01-6	4-Nitroaniline	ND		200000	54000
100-02-7	4-Nitrophenol	ND		200000	72000
83-32-9	Acenaphthene	68000	J	100000	15000
208-96-8	Acenaphthylene	ND		100000	13000
98-86-2	Acetophenone	ND		100000	14000
120-12-7	Anthracene	140000		100000	25000
1912-24-9	Atrazine	ND		100000	36000
100-52-7	Benzaldehyde	ND		100000	81000
56-55-3	Benzo(a)anthracene	410000		100000	10000
50-32-8	Benzo(a)pyrene	460000		100000	15000
205-99-2	Benzo(b)fluoranthene	560000		100000	16000
191-24-2	Benzo(g,h,i)perylene	290000		100000	11000
207-08-9	Benzo(k)fluoranthene	260000		100000	13000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-1 DL | Lab Sample ID: 480-177721-26 DL

Matrix: Solid | Lab File ID: X21470964.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:05

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.12(g) | Date Analyzed: 11/11/2020 11:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558499 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		100000	15000
108-60-1	bis (2-chloroisopropyl) ether	ND		100000	20000
111-91-1	Bis(2-chloroethoxy)methane	ND		100000	22000
111-44-4	Bis(2-chloroethyl)ether	ND		100000	13000
117-81-7	Bis(2-ethylhexyl) phthalate	ND		100000	35000
85-68-7	Butyl benzyl phthalate	ND		100000	17000
105-60-2	Caprolactam	ND		100000	31000
86-74-8	Carbazole	83000	J	100000	12000
218-01-9	Chrysene	460000		100000	23000
53-70-3	Dibenz(a,h)anthracene	62000	J	100000	18000
132-64-9	Dibenzofuran	34000	J	100000	12000
84-66-2	Diethyl phthalate	ND		100000	13000
131-11-3	Dimethyl phthalate	ND		100000	12000
84-74-2	Di-n-butyl phthalate	ND		100000	17000
117-84-0	Di-n-octyl phthalate	ND		100000	12000
206-44-0	Fluoranthene	1000000		100000	11000
86-73-7	Fluorene	64000	J	100000	12000
118-74-1	Hexachlorobenzene	ND		100000	14000
87-68-3	Hexachlorobutadiene	ND		100000	15000
77-47-4	Hexachlorocyclopentadiene	ND		100000	14000
67-72-1	Hexachloroethane	ND		100000	13000
193-39-5	Indeno(1,2,3-cd)pyrene	250000		100000	13000
78-59-1	Isophorone	ND		100000	22000
91-20-3	Naphthalene	ND		100000	13000
98-95-3	Nitrobenzene	ND		100000	11000
621-64-7	N-Nitrosodi-n-propylamine	ND		100000	17000
86-30-6	N-Nitrosodiphenylamine	ND		100000	83000
87-86-5	Pentachlorophenol	ND		200000	100000
85-01-8	Phenanthrene	690000		100000	15000
108-95-2	Phenol	ND		100000	16000
129-00-0	Pyrene	860000		100000	12000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-1 DL | Lab Sample ID: 480-177721-26 DL

Matrix: Solid | Lab File ID: X21470964.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:05

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.12(g) | Date Analyzed: 11/11/2020 11:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558499 | Units: ug/Kg

Number TICs Found: 8 | TIC Result Total: 1.013e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	11.17	130000	T J	
84-65-1	9,10-Anthracenedione	11.38	100000	T J N	99%
	Unknown	13.97	87000	T J	
192-97-2	Benzo[e]pyrene	14.03	280000	T J N	97%
	Unknown	14.83	100000	T J	
191-26-4	Dibenzo[def,mno]chrysene	15.26	86000	T J N	91%
191-30-0	1,2:3,4-Dibenzopyrene	16.19	110000	T J N	96%
	Unknown	16.75	120000	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-1 | Lab Sample ID: 480-177721-28

Matrix: Solid | Lab File ID: U33159310.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.69(g) | Date Analyzed: 11/10/2020 18:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		2100	560
88-06-2	2,4,6-Trichlorophenol	ND		2100	410
120-83-2	2,4-Dichlorophenol	ND		2100	220
105-67-9	2,4-Dimethylphenol	ND		2100	500
51-28-5	2,4-Dinitrophenol	ND		20000	9500
121-14-2	2,4-Dinitrotoluene	ND		2100	420
606-20-2	2,6-Dinitrotoluene	ND		2100	240
91-58-7	2-Chloronaphthalene	ND		2100	340
95-57-8	2-Chlorophenol	ND		4000	370
91-57-6	2-Methylnaphthalene	790	J	2100	410
95-48-7	2-Methylphenol	ND		2100	240
88-74-4	2-Nitroaniline	ND	UJ	4000	300
88-75-5	2-Nitrophenol	ND	UJ	2100	580
91-94-1	3,3'-Dichlorobenzidine	ND		4000	2400
99-09-2	3-Nitroaniline	ND		4000	570
534-52-1	4,6-Dinitro-2-methylphenol	ND		4000	2100
101-55-3	4-Bromophenyl phenyl ether	ND		2100	290
59-50-7	4-Chloro-3-methylphenol	ND		2100	510
106-47-8	4-Chloroaniline	ND		2100	510
7005-72-3	4-Chlorophenyl phenyl ether	ND		2100	250
106-44-5	4-Methylphenol	ND		4000	240
100-01-6	4-Nitroaniline	ND		4000	1100
100-02-7	4-Nitrophenol	ND	UJ	4000	1400
83-32-9	Acenaphthene	6900		2100	300
208-96-8	Acenaphthylene	760	J	2100	270
98-86-2	Acetophenone	ND		2100	280
120-12-7	Anthracene	14000		2100	510
1912-24-9	Atrazine	ND		2100	710
100-52-7	Benzaldehyde	ND		2100	1600
56-55-3	Benzo(a)anthracene	45000		2100	210
50-32-8	Benzo(a)pyrene	48000		2100	300
205-99-2	Benzo(b)fluoranthene	53000		2100	330
191-24-2	Benzo(g,h,i)perylene	24000		2100	220
207-08-9	Benzo(k)fluoranthene	24000		2100	270

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-1 Lab Sample ID: 480-177721-28

Matrix: Solid Lab File ID: U33159310.D

Analysis Method: 8270D Date Collected: 11/04/2020 13:10

Extract. Method: 3550C Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.69(g) Date Analyzed: 11/10/2020 18:31

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 19.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 Units: ug/Kg

	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
	92-52-4	Biphenyl	ND		2100	300
	108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	2100	410
	111-91-1	Bis(2-chloroethoxy)methane	ND		2100	440
	111-44-4	Bis(2-chloroethyl)ether	ND		2100	270
	117-81-7	Bis(2-ethylhexyl) phthalate	ND		2100	700
	85-68-7	Butyl benzyl phthalate	ND		2100	340
	105-60-2	Caprolactam	ND		2100	620
	86-74-8	Carbazole	8500		2100	240
	218-01-9	Chrysene	44000		2100	460
	53-70-3	Dibenz(a,h)anthracene	8400		2100	360
	132-64-9	Dibenzofuran	3300		2100	240
	84-66-2	Diethyl phthalate	ND		2100	270
	131-11-3	Dimethyl phthalate	ND		2100	240
	84-74-2	Di-n-butyl phthalate	ND		2100	350
	117-84-0	Di-n-octyl phthalate	ND	UJ	2100	240
*	206-44-0	Fluoranthene	110000	E	2100	220
	86-73-7	Fluorene	6000		2100	240
	118-74-1	Hexachlorobenzene	ND		2100	280
	87-68-3	Hexachlorobutadiene	ND		2100	300
	77-47-4	Hexachlorocyclopentadiene	ND	UJ	2100	280
	67-72-1	Hexachloroethane	ND		2100	270
	193-39-5	Indeno(1,2,3-cd)pyrene	23000		2100	250
	78-59-1	Isophorone	ND		2100	440
	91-20-3	Naphthalene	1500	J	2100	270
	98-95-3	Nitrobenzene	ND		2100	230
	621-64-7	N-Nitrosodi-n-propylamine	ND		2100	350
	86-30-6	N-Nitrosodiphenylamine	ND		2100	1700
	87-86-5	Pentachlorophenol	ND		4000	2100
*	85-01-8	Phenanthrene	68000	E	2100	300
	108-95-2	Phenol	ND		2100	310
	129-00-0	Pyrene	74000	E	2100	240

*Report from 50x dilution

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-1 | Lab Sample ID: 480-177721-28

Matrix: Solid | Lab File ID: U33159310.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.69(g) | Date Analyzed: 11/10/2020 18:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558289 | Units: ug/Kg

Number TICs Found: 19 | TIC Result Total: 172900

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
613-12-7	Anthracene, 2-methyl-	11.48	7400	T J N	94%
779-02-2	Anthracene, 9-methyl-	11.50	10000	T J N	93%
	Unknown	11.58	16000	T J	
610-48-0	Anthracene, 1-methyl-	11.60	5100	T J N	93%
35465-71-5	2-Phenylnaphthalene	11.76	5200	T J N	96%
84-65-1	9,10-Anthracenedione	11.78	7500	T J N	99%
3674-66-6	Phenanthrene, 2,5-dimethyl-	11.99	4600	T J N	96%
5737-13-3	Cyclopenta(def)phenanthrenone	12.06	6100	T J N	91%
1090-13-7	5,12-Naphthacenedione	13.98	4900	T J N	94%
	Unknown	14.12	6000	T J	
192-97-2	Benzo[e]pyrene	14.32	7000	T J N	89%
205-82-3	Benzo[j]fluoranthene	14.47	31000	T J N	89%
198-55-0	Perylene	14.57	16000	T J N	95%
	Unknown	15.38	5700	T J	
191-26-4	Dibenzo[def,mno]chrysene	15.41	6800	T J N	95%
	Unknown	15.60	8400	T J	
1223-31-0	di(p-Nitrophenyl) sulfide	15.92	9000	T J N	96%
192-65-4	1,2:4,5-Dibenzopyrene	17.04	10000	T J N	98%
191-30-0	1,2:3,4-Dibenzopyrene	17.15	6200	T J N	97%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-1 DL | Lab Sample ID: 480-177721-28 DL

Matrix: Solid | Lab File ID: X21470965.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.69(g) | Date Analyzed: 11/11/2020 11:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558499 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		10000	2800
88-06-2	2,4,6-Trichlorophenol	ND		10000	2100
120-83-2	2,4-Dichlorophenol	ND		10000	1100
105-67-9	2,4-Dimethylphenol	ND		10000	2500
51-28-5	2,4-Dinitrophenol	ND		100000	47000
121-14-2	2,4-Dinitrotoluene	ND		10000	2100
606-20-2	2,6-Dinitrotoluene	ND		10000	1200
91-58-7	2-Chloronaphthalene	ND		10000	1700
95-57-8	2-Chlorophenol	ND		20000	1900
91-57-6	2-Methylnaphthalene	ND		10000	2100
95-48-7	2-Methylphenol	ND		10000	1200
88-74-4	2-Nitroaniline	ND		20000	1500
88-75-5	2-Nitrophenol	ND		10000	2900
91-94-1	3,3'-Dichlorobenzidine	ND		20000	12000
99-09-2	3-Nitroaniline	ND		20000	2800
534-52-1	4,6-Dinitro-2-methylphenol	ND		20000	10000
101-55-3	4-Bromophenyl phenyl ether	ND		10000	1500
59-50-7	4-Chloro-3-methylphenol	ND		10000	2500
106-47-8	4-Chloroaniline	ND		10000	2500
7005-72-3	4-Chlorophenyl phenyl ether	ND		10000	1300
106-44-5	4-Methylphenol	ND		20000	1200
100-01-6	4-Nitroaniline	ND		20000	5400
100-02-7	4-Nitrophenol	ND		20000	7200
83-32-9	Acenaphthene	6800	J	10000	1500
208-96-8	Acenaphthylene	ND		10000	1300
98-86-2	Acetophenone	ND		10000	1400
120-12-7	Anthracene	14000		10000	2500
1912-24-9	Atrazine	ND		10000	3600
100-52-7	Benzaldehyde	ND		10000	8200
56-55-3	Benzo(a)anthracene	45000		10000	1000
50-32-8	Benzo(a)pyrene	48000		10000	1500
205-99-2	Benzo(b)fluoranthene	54000		10000	1600
191-24-2	Benzo(g,h,i)perylene	28000		10000	1100
207-08-9	Benzo(k)fluoranthene	30000		10000	1300

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-1 DL | Lab Sample ID: 480-177721-28 DL

Matrix: Solid | Lab File ID: X21470965.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.69(g) | Date Analyzed: 11/11/2020 11:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558499 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		10000	1500
108-60-1	bis (2-chloroisopropyl) ether	ND		10000	2100
111-91-1	Bis(2-chloroethoxy)methane	ND		10000	2200
111-44-4	Bis(2-chloroethyl)ether	ND		10000	1300
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10000	3500
85-68-7	Butyl benzyl phthalate	ND		10000	1700
105-60-2	Caprolactam	ND		10000	3100
86-74-8	Carbazole	8300	J	10000	1200
218-01-9	Chrysene	45000		10000	2300
53-70-3	Dibenz(a,h)anthracene	8300	J	10000	1800
132-64-9	Dibenzofuran	3500	J	10000	1200
84-66-2	Diethyl phthalate	ND		10000	1300
131-11-3	Dimethyl phthalate	ND		10000	1200
84-74-2	Di-n-butyl phthalate	ND		10000	1800
117-84-0	Di-n-octyl phthalate	ND		10000	1200
206-44-0	Fluoranthene	100000		10000	1100
86-73-7	Fluorene	6300	J	10000	1200
118-74-1	Hexachlorobenzene	ND		10000	1400
87-68-3	Hexachlorobutadiene	ND		10000	1500
77-47-4	Hexachlorocyclopentadiene	ND		10000	1400
67-72-1	Hexachloroethane	ND		10000	1300
193-39-5	Indeno(1,2,3-cd)pyrene	26000		10000	1300
78-59-1	Isophorone	ND		10000	2200
91-20-3	Naphthalene	ND		10000	1300
98-95-3	Nitrobenzene	ND		10000	1100
621-64-7	N-Nitrosodi-n-propylamine	ND		10000	1800
86-30-6	N-Nitrosodiphenylamine	ND		10000	8300
87-86-5	Pentachlorophenol	ND		20000	10000
85-01-8	Phenanthrene	69000		10000	1500
108-95-2	Phenol	ND		10000	1600
129-00-0	Pyrene	84000		10000	1200

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-1 DL | Lab Sample ID: 480-177721-28 DL

Matrix: Solid | Lab File ID: X21470965.D

Analysis Method: 8270D | Date Collected: 11/04/2020 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2020 07:44

Sample wt/vol: 30.69(g) | Date Analyzed: 11/11/2020 11:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558499 | Units: ug/Kg

Number TICs Found: 13 | TIC Result Total: 155000

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
613-12-7	Anthracene, 2-methyl-	11.10	9500	T J N	96%
	Unknown	11.17	13000	T J	
84-65-1	9,10-Anthracenedione	11.38	11000	T J N	96%
	Unknown	12.78	8500	T J	
198-55-0	Perylene	13.90	8500	T J N	98%
192-97-2	Benzo[e]pyrene	14.03	29000	T J N	98%
	Unknown	14.22	8700	T J	
	Unknown	14.74	9500	T J	
	Unknown	14.84	17000	T J	
1000213-60-7	N-[4-Amino-3-nitrophenyl]-N-nitroso-4-chlorobenzylamine	15.26	8600	T J N	93%
5385-75-1	Dibenz(a,e)aceanthrylene	16.19	11000	T J N	94%
189-64-0	3,4:8,9-Dibenzopyrene	16.28	8700	T J N	93%
192-65-4	1,2:4,5-Dibenzopyrene	16.75	12000	T J N	92%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-36-20-0-1 | Lab Sample ID: 480-177826-6

Matrix: Solid | Lab File ID: V3148103.D

Analysis Method: 8270D | Date Collected: 11/05/2020 12:15

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.41(g) | Date Analyzed: 11/11/2020 17:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		9000	2400
88-06-2	2,4,6-Trichlorophenol	ND		9000	1800
120-83-2	2,4-Dichlorophenol	ND		9000	960
105-67-9	2,4-Dimethylphenol	ND		9000	2200
51-28-5	2,4-Dinitrophenol	ND		88000	42000
121-14-2	2,4-Dinitrotoluene	ND		9000	1900
606-20-2	2,6-Dinitrotoluene	ND		9000	1100
91-58-7	2-Chloronaphthalene	ND		9000	1500
95-57-8	2-Chlorophenol	ND		18000	1600
91-57-6	2-Methylnaphthalene	ND		9000	1800
95-48-7	2-Methylphenol	ND		9000	1100
88-74-4	2-Nitroaniline	ND		18000	1300
88-75-5	2-Nitrophenol	ND		9000	2600
91-94-1	3,3'-Dichlorobenzidine	ND		18000	11000
99-09-2	3-Nitroaniline	ND		18000	2500
534-52-1	4,6-Dinitro-2-methylphenol	ND		18000	9000
101-55-3	4-Bromophenyl phenyl ether	ND		9000	1300
59-50-7	4-Chloro-3-methylphenol	ND		9000	2200
106-47-8	4-Chloroaniline	ND		9000	2200
7005-72-3	4-Chlorophenyl phenyl ether	ND		9000	1100
106-44-5	4-Methylphenol	ND		18000	1100
100-01-6	4-Nitroaniline	ND		18000	4700
100-02-7	4-Nitrophenol	ND		18000	6300
83-32-9	Acenaphthene	ND		9000	1300
208-96-8	Acenaphthylene	ND		9000	1200
98-86-2	Acetophenone	ND		9000	1200
120-12-7	Anthracene	ND		9000	2200
1912-24-9	Atrazine	ND		9000	3100
100-52-7	Benzaldehyde	ND		9000	7200
56-55-3	Benzo(a)anthracene	ND		9000	900
50-32-8	Benzo(a)pyrene	ND		9000	1300
205-99-2	Benzo(b)fluoranthene	ND		9000	1400
191-24-2	Benzo(g,h,i)perylene	ND		9000	960
207-08-9	Benzo(k)fluoranthene	ND		9000	1200

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-36-20-0-1 | Lab Sample ID: 480-177826-6

Matrix: Solid | Lab File ID: V3148103.D

Analysis Method: 8270D | Date Collected: 11/05/2020 12:15

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.41(g) | Date Analyzed: 11/11/2020 17:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		9000	1300
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	9000	1800
111-91-1	Bis(2-chloroethoxy)methane	ND		9000	1900
111-44-4	Bis(2-chloroethyl)ether	ND		9000	1200
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9000	3100
85-68-7	Butyl benzyl phthalate	ND		9000	1500
105-60-2	Caprolactam	ND		9000	2700
86-74-8	Carbazole	ND		9000	1100
218-01-9	Chrysene	ND		9000	2000
53-70-3	Dibenz(a,h)anthracene	ND		9000	1600
132-64-9	Dibenzofuran	ND		9000	1100
84-66-2	Diethyl phthalate	ND		9000	1200
131-11-3	Dimethyl phthalate	ND		9000	1100
84-74-2	Di-n-butyl phthalate	ND		9000	1500
117-84-0	Di-n-octyl phthalate	ND		9000	1100
206-44-0	Fluoranthene	960	J	9000	960
86-73-7	Fluorene	ND		9000	1100
118-74-1	Hexachlorobenzene	ND		9000	1200
87-68-3	Hexachlorobutadiene	ND		9000	1300
77-47-4	Hexachlorocyclopentadiene	ND		9000	1200
67-72-1	Hexachloroethane	ND		9000	1200
193-39-5	Indeno(1,2,3-cd)pyrene	ND		9000	1100
78-59-1	Isophorone	ND		9000	1900
91-20-3	Naphthalene	ND		9000	1200
98-95-3	Nitrobenzene	ND		9000	1000
621-64-7	N-Nitrosodi-n-propylamine	ND		9000	1500
86-30-6	N-Nitrosodiphenylamine	ND		9000	7300
87-86-5	Pentachlorophenol	ND		18000	9000
85-01-8	Phenanthrene	ND		9000	1300
108-95-2	Phenol	ND		9000	1400
129-00-0	Pyrene	ND		9000	1100

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-36-20-0-1 Lab Sample ID: 480-177826-6

Matrix: Solid Lab File ID: V3148103.D

Analysis Method: 8270D Date Collected: 11/05/2020 12:15

Extract. Method: 3550C Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.41(g) Date Analyzed: 11/11/2020 17:15

Con. Extract Vol.: 1(mL) Dilution Factor: 50

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 7.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1
SDG No.: 480-177721
Client Sample ID: FD-110520-3 | Lab Sample ID: 480-177826-7
Matrix: Solid | Lab File ID: V3148114.D
Analysis Method: 8270D | Date Collected: 11/05/2020 00:00
Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08
Sample wt/vol: 30.41(g) | Date Analyzed: 11/11/2020 21:47
Con. Extract Vol.: 1(mL) | Dilution Factor: 5
Injection Volume: 1(uL) | Level: (low/med) Low
% Moisture: 6.2 | GPC Cleanup:(Y/N) N
Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		890	240
88-06-2	2,4,6-Trichlorophenol	ND		890	180
120-83-2	2,4-Dichlorophenol	ND		890	95
105-67-9	2,4-Dimethylphenol	ND		890	220
51-28-5	2,4-Dinitrophenol	ND		8700	4100
121-14-2	2,4-Dinitrotoluene	ND		890	180
606-20-2	2,6-Dinitrotoluene	ND		890	110
91-58-7	2-Chloronaphthalene	ND		890	150
95-57-8	2-Chlorophenol	ND		1700	160
91-57-6	2-Methylnaphthalene	ND		890	180
95-48-7	2-Methylphenol	ND		890	110
88-74-4	2-Nitroaniline	ND		1700	130
88-75-5	2-Nitrophenol	ND		890	250
91-94-1	3,3'-Dichlorobenzidine	ND		1700	1100
99-09-2	3-Nitroaniline	ND		1700	250
534-52-1	4,6-Dinitro-2-methylphenol	ND		1700	890
101-55-3	4-Bromophenyl phenyl ether	ND		890	130
59-50-7	4-Chloro-3-methylphenol	ND		890	220
106-47-8	4-Chloroaniline	ND		890	220
7005-72-3	4-Chlorophenyl phenyl ether	ND		890	110
106-44-5	4-Methylphenol	ND		1700	110
100-01-6	4-Nitroaniline	ND		1700	470
100-02-7	4-Nitrophenol	ND		1700	630
83-32-9	Acenaphthene	ND		890	130
208-96-8	Acenaphthylene	ND		890	120
98-86-2	Acetophenone	ND		890	120
120-12-7	Anthracene	ND		890	220
1912-24-9	Atrazine	ND		890	310
100-52-7	Benzaldehyde	ND		890	710
56-55-3	Benzo(a)anthracene	330	J	890	89
50-32-8	Benzo(a)pyrene	380	J	890	130
205-99-2	Benzo(b)fluoranthene	430	J	890	140
191-24-2	Benzo(g,h,i)perylene	320	J	890	95
207-08-9	Benzo(k)fluoranthene	280	J	890	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1
SDG No.: 480-177721
Client Sample ID: FD-110520-3 | Lab Sample ID: 480-177826-7
Matrix: Solid | Lab File ID: V3148114.D
Analysis Method: 8270D | Date Collected: 11/05/2020 00:00
Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08
Sample wt/vol: 30.41(g) | Date Analyzed: 11/11/2020 21:47
Con. Extract Vol.: 1(mL) | Dilution Factor: 5
Injection Volume: 1(uL) | Level: (low/med) Low
% Moisture: 6.2 | GPC Cleanup:(Y/N) N
Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		890	130
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	890	180
111-91-1	Bis(2-chloroethoxy)methane	ND		890	190
111-44-4	Bis(2-chloroethyl)ether	ND		890	120
117-81-7	Bis(2-ethylhexyl) phthalate	ND		890	310
85-68-7	Butyl benzyl phthalate	ND		890	150
105-60-2	Caprolactam	ND		890	270
86-74-8	Carbazole	ND		890	110
218-01-9	Chrysene	330	J	890	200
53-70-3	Dibenz(a,h)anthracene	ND		890	160
132-64-9	Dibenzofuran	ND		890	110
84-66-2	Diethyl phthalate	ND		890	120
131-11-3	Dimethyl phthalate	ND		890	110
84-74-2	Di-n-butyl phthalate	ND		890	150
117-84-0	Di-n-octyl phthalate	ND		890	110
206-44-0	Fluoranthene	690	J	890	95
86-73-7	Fluorene	ND		890	110
118-74-1	Hexachlorobenzene	ND		890	120
87-68-3	Hexachlorobutadiene	ND		890	130
77-47-4	Hexachlorocyclopentadiene	ND		890	120
67-72-1	Hexachloroethane	ND		890	120
193-39-5	Indeno(1,2,3-cd)pyrene	270	J	890	110
78-59-1	Isophorone	ND		890	190
91-20-3	Naphthalene	ND		890	120
98-95-3	Nitrobenzene	ND		890	100
621-64-7	N-Nitrosodi-n-propylamine	ND		890	150
86-30-6	N-Nitrosodiphenylamine	ND		890	730
87-86-5	Pentachlorophenol	ND		1700	890
85-01-8	Phenanthrene	420	J	890	130
108-95-2	Phenol	ND		890	140
129-00-0	Pyrene	520	J	890	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1
SDG No.: 480-177721
Client Sample ID: FD-110520-3 Lab Sample ID: 480-177826-7
Matrix: Solid Lab File ID: V3148114.D
Analysis Method: 8270D Date Collected: 11/05/2020 00:00
Extract. Method: 3550C Date Extracted: 11/10/2020 08:08
Sample wt/vol: 30.41(g) Date Analyzed: 11/11/2020 21:47
Con. Extract Vol.: 1(mL) Dilution Factor: 5
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: 6.2 GPC Cleanup:(Y/N) N
Analysis Batch No.: 558569 Units: ug/Kg
Number TICs Found: 1 TIC Result Total: 710

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.55	710	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-34-20-0-1 | Lab Sample ID: 480-177826-9

Matrix: Solid | Lab File ID: V3148115.D

Analysis Method: 8270D | Date Collected: 11/05/2020 12:30

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.28(g) | Date Analyzed: 11/11/2020 22:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1800	490
88-06-2	2,4,6-Trichlorophenol	ND		1800	360
120-83-2	2,4-Dichlorophenol	ND		1800	190
105-67-9	2,4-Dimethylphenol	ND		1800	430
51-28-5	2,4-Dinitrophenol	ND		18000	8300
121-14-2	2,4-Dinitrotoluene	ND		1800	370
606-20-2	2,6-Dinitrotoluene	ND		1800	210
91-58-7	2-Chloronaphthalene	ND		1800	300
95-57-8	2-Chlorophenol	ND		3500	330
91-57-6	2-Methylnaphthalene	ND		1800	360
95-48-7	2-Methylphenol	ND		1800	210
88-74-4	2-Nitroaniline	ND		3500	260
88-75-5	2-Nitrophenol	ND		1800	510
91-94-1	3,3'-Dichlorobenzidine	ND		3500	2100
99-09-2	3-Nitroaniline	ND		3500	500
534-52-1	4,6-Dinitro-2-methylphenol	ND		3500	1800
101-55-3	4-Bromophenyl phenyl ether	ND		1800	250
59-50-7	4-Chloro-3-methylphenol	ND		1800	440
106-47-8	4-Chloroaniline	ND		1800	440
7005-72-3	4-Chlorophenyl phenyl ether	ND		1800	220
106-44-5	4-Methylphenol	ND		3500	210
100-01-6	4-Nitroaniline	ND		3500	940
100-02-7	4-Nitrophenol	ND		3500	1300
83-32-9	Acenaphthene	590	J	1800	260
208-96-8	Acenaphthylene	ND		1800	230
98-86-2	Acetophenone	ND		1800	240
120-12-7	Anthracene	1200	J	1800	440
1912-24-9	Atrazine	ND		1800	620
100-52-7	Benzaldehyde	ND		1800	1400
56-55-3	Benzo(a)anthracene	3000		1800	180
50-32-8	Benzo(a)pyrene	3300		1800	260
205-99-2	Benzo(b)fluoranthene	4100		1800	290
191-24-2	Benzo(g,h,i)perylene	2100		1800	190
207-08-9	Benzo(k)fluoranthene	1800		1800	230

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-34-20-0-1 | Lab Sample ID: 480-177826-9

Matrix: Solid | Lab File ID: V3148115.D

Analysis Method: 8270D | Date Collected: 11/05/2020 12:30

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.28(g) | Date Analyzed: 11/11/2020 22:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1800	260
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	1800	360
111-91-1	Bis(2-chloroethoxy)methane	ND		1800	380
111-44-4	Bis(2-chloroethyl)ether	ND		1800	230
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1800	610
85-68-7	Butyl benzyl phthalate	ND		1800	300
105-60-2	Caprolactam	ND		1800	540
86-74-8	Carbazole	710	J	1800	210
218-01-9	Chrysene	2900		1800	400
53-70-3	Dibenz(a,h)anthracene	700	J	1800	320
132-64-9	Dibenzofuran	320	J	1800	210
84-66-2	Diethyl phthalate	ND		1800	230
131-11-3	Dimethyl phthalate	ND		1800	210
84-74-2	Di-n-butyl phthalate	ND		1800	310
117-84-0	Di-n-octyl phthalate	ND		1800	210
206-44-0	Fluoranthene	7300		1800	190
86-73-7	Fluorene	460	J	1800	210
118-74-1	Hexachlorobenzene	ND		1800	240
87-68-3	Hexachlorobutadiene	ND		1800	260
77-47-4	Hexachlorocyclopentadiene	ND		1800	240
67-72-1	Hexachloroethane	ND		1800	230
193-39-5	Indeno(1,2,3-cd)pyrene	2000		1800	220
78-59-1	Isophorone	ND		1800	380
91-20-3	Naphthalene	ND		1800	230
98-95-3	Nitrobenzene	ND		1800	200
621-64-7	N-Nitrosodi-n-propylamine	ND		1800	310
86-30-6	N-Nitrosodiphenylamine	ND		1800	1500
87-86-5	Pentachlorophenol	ND		3500	1800
85-01-8	Phenanthrene	4900		1800	260
108-95-2	Phenol	ND		1800	280
129-00-0	Pyrene	5200		1800	210

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-34-20-0-1 Lab Sample ID: 480-177826-9

Matrix: Solid Lab File ID: V3148115.D

Analysis Method: 8270D Date Collected: 11/05/2020 12:30

Extract. Method: 3550C Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.28(g) Date Analyzed: 11/11/2020 22:11

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 6.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 2100

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
192-97-2	Benzo[e]pyrene	14.56	2100	T J N	98%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-56-20-1-5 | Lab Sample ID: 480-177832-20

Matrix: Solid | Lab File ID: V3148116.D

Analysis Method: 8270D | Date Collected: 11/05/2020 15:22

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.35(g) | Date Analyzed: 11/11/2020 22:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 8.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		180	50
88-06-2	2,4,6-Trichlorophenol	ND		180	37
120-83-2	2,4-Dichlorophenol	ND		180	20
105-67-9	2,4-Dimethylphenol	ND		180	44
51-28-5	2,4-Dinitrophenol	ND		1800	850
121-14-2	2,4-Dinitrotoluene	ND		180	38
606-20-2	2,6-Dinitrotoluene	ND		180	22
91-58-7	2-Chloronaphthalene	ND		180	30
95-57-8	2-Chlorophenol	ND		360	34
91-57-6	2-Methylnaphthalene	ND		180	37
95-48-7	2-Methylphenol	ND		180	22
88-74-4	2-Nitroaniline	ND		360	27
88-75-5	2-Nitrophenol	ND		180	52
91-94-1	3,3'-Dichlorobenzidine	ND		360	220
99-09-2	3-Nitroaniline	ND		360	51
534-52-1	4,6-Dinitro-2-methylphenol	ND		360	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	26
59-50-7	4-Chloro-3-methylphenol	ND		180	46
106-47-8	4-Chloroaniline	ND		180	46
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	23
106-44-5	4-Methylphenol	ND		360	22
100-01-6	4-Nitroaniline	ND		360	96
100-02-7	4-Nitrophenol	ND		360	130
83-32-9	Acenaphthene	ND		180	27
208-96-8	Acenaphthylene	ND		180	24
98-86-2	Acetophenone	ND		180	25
120-12-7	Anthracene	ND		180	46
1912-24-9	Atrazine	ND		180	64
100-52-7	Benzaldehyde	ND		180	150
56-55-3	Benzo(a)anthracene	ND		180	18
50-32-8	Benzo(a)pyrene	ND		180	27
205-99-2	Benzo(b)fluoranthene	ND		180	29
191-24-2	Benzo(g,h,i)perylene	ND		180	20
207-08-9	Benzo(k)fluoranthene	ND		180	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-56-20-1-5 | Lab Sample ID: 480-177832-20

Matrix: Solid | Lab File ID: V3148116.D

Analysis Method: 8270D | Date Collected: 11/05/2020 15:22

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.35(g) | Date Analyzed: 11/11/2020 22:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 8.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	27
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	180	37
111-91-1	Bis(2-chloroethoxy)methane	ND		180	39
111-44-4	Bis(2-chloroethyl)ether	ND		180	24
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	63
85-68-7	Butyl benzyl phthalate	ND		180	30
105-60-2	Caprolactam	ND		180	55
86-74-8	Carbazole	ND		180	22
218-01-9	Chrysene	ND		180	41
53-70-3	Dibenz(a,h)anthracene	ND		180	33
132-64-9	Dibenzofuran	ND		180	22
84-66-2	Diethyl phthalate	ND		180	24
131-11-3	Dimethyl phthalate	ND		180	22
84-74-2	Di-n-butyl phthalate	ND		180	31
117-84-0	Di-n-octyl phthalate	ND		180	22
206-44-0	Fluoranthene	ND		180	20
86-73-7	Fluorene	ND		180	22
118-74-1	Hexachlorobenzene	ND		180	25
87-68-3	Hexachlorobutadiene	ND		180	27
77-47-4	Hexachlorocyclopentadiene	ND		180	25
67-72-1	Hexachloroethane	ND		180	24
193-39-5	Indeno(1,2,3-cd)pyrene	ND		180	23
78-59-1	Isophorone	ND		180	39
91-20-3	Naphthalene	ND		180	24
98-95-3	Nitrobenzene	ND		180	21
621-64-7	N-Nitrosodi-n-propylamine	ND		180	31
86-30-6	N-Nitrosodiphenylamine	ND		180	150
87-86-5	Pentachlorophenol	ND		360	180
85-01-8	Phenanthrene	ND		180	27
108-95-2	Phenol	ND		180	28
129-00-0	Pyrene	ND		180	22

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-56-20-1-5 Lab Sample ID: 480-177832-20

Matrix: Solid Lab File ID: V3148116.D

Analysis Method: 8270D Date Collected: 11/05/2020 15:22

Extract. Method: 3550C Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.35(g) Date Analyzed: 11/11/2020 22:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 8.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 2380

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	640	T J	
	Unknown	1.93	340	T J	
	Unknown	2.06	220	T J	
	Unknown	2.08	490	T J	
	Unknown	3.63	690	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-0-0.5 | Lab Sample ID: 480-177832-43

Matrix: Solid | Lab File ID: V3148117.D

Analysis Method: 8270D | Date Collected: 11/06/2020 09:10

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.29(g) | Date Analyzed: 11/11/2020 23:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 4.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		180	48
88-06-2	2,4,6-Trichlorophenol	ND		180	35
120-83-2	2,4-Dichlorophenol	ND		180	19
105-67-9	2,4-Dimethylphenol	ND		180	42
51-28-5	2,4-Dinitrophenol	ND		1700	810
121-14-2	2,4-Dinitrotoluene	ND		180	36
606-20-2	2,6-Dinitrotoluene	ND		180	21
91-58-7	2-Chloronaphthalene	ND		180	29
95-57-8	2-Chlorophenol	ND		340	32
91-57-6	2-Methylnaphthalene	ND		180	35
95-48-7	2-Methylphenol	ND		180	21
88-74-4	2-Nitroaniline	ND		340	26
88-75-5	2-Nitrophenol	ND		180	50
91-94-1	3,3'-Dichlorobenzidine	ND		340	210
99-09-2	3-Nitroaniline	ND		340	49
534-52-1	4,6-Dinitro-2-methylphenol	ND		340	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	25
59-50-7	4-Chloro-3-methylphenol	ND		180	43
106-47-8	4-Chloroaniline	ND		180	43
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	22
106-44-5	4-Methylphenol	ND		340	21
100-01-6	4-Nitroaniline	ND		340	92
100-02-7	4-Nitrophenol	ND		340	120
83-32-9	Acenaphthene	ND		180	26
208-96-8	Acenaphthylene	ND		180	23
98-86-2	Acetophenone	ND		180	24
120-12-7	Anthracene	ND		180	43
1912-24-9	Atrazine	ND		180	61
100-52-7	Benzaldehyde	ND		180	140
56-55-3	Benzo(a)anthracene	42	J	180	18
50-32-8	Benzo(a)pyrene	48	J	180	26
205-99-2	Benzo(b)fluoranthene	50	J	180	28
191-24-2	Benzo(g,h,i)perylene	36	J	180	19
207-08-9	Benzo(k)fluoranthene	33	J	180	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-0-0.5 | Lab Sample ID: 480-177832-43

Matrix: Solid | Lab File ID: V3148117.D

Analysis Method: 8270D | Date Collected: 11/06/2020 09:10

Extract. Method: 3550C | Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.29(g) | Date Analyzed: 11/11/2020 23:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 4.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	26
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	180	35
111-91-1	Bis(2-chloroethoxy)methane	ND		180	37
111-44-4	Bis(2-chloroethyl)ether	ND		180	23
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	60
85-68-7	Butyl benzyl phthalate	ND		180	29
105-60-2	Caprolactam	ND		180	53
86-74-8	Carbazole	ND		180	21
218-01-9	Chrysene	42	J	180	39
53-70-3	Dibenz(a,h)anthracene	ND		180	31
132-64-9	Dibenzofuran	ND		180	21
84-66-2	Diethyl phthalate	ND		180	23
131-11-3	Dimethyl phthalate	ND		180	21
84-74-2	Di-n-butyl phthalate	ND		180	30
117-84-0	Di-n-octyl phthalate	ND		180	21
206-44-0	Fluoranthene	100	J	180	19
86-73-7	Fluorene	ND		180	21
118-74-1	Hexachlorobenzene	ND		180	24
87-68-3	Hexachlorobutadiene	ND		180	26
77-47-4	Hexachlorocyclopentadiene	ND		180	24
67-72-1	Hexachloroethane	ND		180	23
193-39-5	Indeno(1,2,3-cd)pyrene	30	J	180	22
78-59-1	Isophorone	ND		180	37
91-20-3	Naphthalene	ND		180	23
98-95-3	Nitrobenzene	ND		180	20
621-64-7	N-Nitrosodi-n-propylamine	ND		180	30
86-30-6	N-Nitrosodiphenylamine	ND		180	140
87-86-5	Pentachlorophenol	ND		340	180
85-01-8	Phenanthrene	57	J	180	26
108-95-2	Phenol	ND		180	27
129-00-0	Pyrene	72	J	180	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-0-0.5 Lab Sample ID: 480-177832-43

Matrix: Solid Lab File ID: V3148117.D

Analysis Method: 8270D Date Collected: 11/06/2020 09:10

Extract. Method: 3550C Date Extracted: 11/10/2020 08:08

Sample wt/vol: 30.29(g) Date Analyzed: 11/11/2020 23:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 4.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 558569 Units: ug/Kg

Number TICs Found: 4 TIC Result Total: 2070

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	630	T J	
	Unknown	2.06	240	T J	
	Unknown	2.08	500	T J	
	Unknown	3.62	700	T J	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-25-20-3-4 Lab Sample ID: 480-177832-49

Matrix: Solid Lab File ID: 7_84-323.D

Analysis Method: 8082A Date Collected: 11/06/2020 14:00

Extraction Method: 3550C Date Extracted: 11/18/2020 07:50

Sample wt/vol: 2.04(g) Date Analyzed: 11/30/2020 01:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.30	0.059
11104-28-2	PCB-1221	ND		0.30	0.059
11141-16-5	PCB-1232	ND		0.30	0.059
53469-21-9	PCB-1242	ND		0.30	0.059
12672-29-6	PCB-1248	ND		0.30	0.059
11097-69-1	PCB-1254	ND		0.30	0.14
11096-82-5	PCB-1260	ND		0.30	0.14
37324-23-5	PCB-1262	ND		0.30	0.14
11100-14-4	PCB-1268	ND		0.30	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	138		65-174

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-48-20-0-0.5 | Lab Sample ID: 480-177721-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/03/2020 15:00

Reporting Basis: DRY | Date Received: 11/04/2020 15:00

% Solids: 93.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18100	10.3	4.5	mg/Kg	J		1	6010C
7440-36-0	Antimony	ND	15.5	0.41	mg/Kg	UJ		1	6010C
7440-38-2	Arsenic	4.0	2.1	0.41	mg/Kg			1	6010C
7440-39-3	Barium	138	0.52	0.11	mg/Kg	J		1	6010C
7440-41-7	Beryllium	1.1	0.21	0.029	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.15	0.21	0.031	mg/Kg	J		1	6010C
7440-70-2	Calcium	29800	51.6	3.4	mg/Kg	J		1	6010C
7440-47-3	Chromium	48.5	0.52	0.21	mg/Kg	J		1	6010C
7440-48-4	Cobalt	15.9	0.52	0.052	mg/Kg			1	6010C
7440-50-8	Copper	76.4	1.0	0.22	mg/Kg	J		1	6010C
7439-89-6	Iron	34900	10.3	3.6	mg/Kg	J		1	6010C
7439-92-1	Lead	72.0	1.0	0.25	mg/Kg	J		1	6010C
7439-95-4	Magnesium	13900	20.6	0.96	mg/Kg	J		1	6010C
7439-96-5	Manganese	514	0.21	0.033	mg/Kg	J		1	6010C
7440-02-0	Nickel	97.8	5.2	0.24	mg/Kg	J		1	6010C
7440-09-7	Potassium	3010	30.9	20.6	mg/Kg	J		1	6010C
7782-49-2	Selenium	ND	4.1	0.41	mg/Kg			1	6010C
7440-22-4	Silver	0.40	0.62	0.21	mg/Kg	J		1	6010C
7440-23-5	Sodium	149	144	13.4	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.2	0.31	mg/Kg			1	6010C
7440-62-2	Vanadium	31.8	0.52	0.11	mg/Kg	J		1	6010C
7440-66-6	Zinc	120	2.1	0.66	mg/Kg	J-		1	6010C
7439-97-6	Hg	0.028	0.019	0.0078	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-78-20-1.5-2.5 | Lab Sample ID: 480-177721-10

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/04/2020 09:35

Reporting Basis: DRY | Date Received: 11/04/2020 15:00

% Solids: 93.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	20400	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.0	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	2.0	2.3	0.45	mg/Kg	J		1	6010C
7440-39-3	Barium	116	0.57	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.84	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.23	0.034	mg/Kg			1	6010C
7440-70-2	Calcium	13300	56.6	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	24.3	0.57	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	8.8	0.57	0.057	mg/Kg			1	6010C
7440-50-8	Copper	13.2	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	17900	11.3	4.0	mg/Kg			1	6010C
7439-92-1	Lead	10.9	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	12000	22.6	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	533	0.23	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	24.9	5.7	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	4210	33.9	22.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	145	158	14.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	31.8	0.57	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	51.3	2.3	0.72	mg/Kg			1	6010C
7439-97-6	Hg	0.019	0.016	0.0065	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-78-20-4-5 | Lab Sample ID: 480-177721-11

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/04/2020 09:35

Reporting Basis: DRY | Date Received: 11/04/2020 15:00

% Solids: 95.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18500	11.0	4.8	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.5	0.44	mg/Kg			1	6010C
7440-38-2	Arsenic	2.7	2.2	0.44	mg/Kg			1	6010C
7440-39-3	Barium	89.4	0.55	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.80	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.22	0.033	mg/Kg			1	6010C
7440-70-2	Calcium	47200	55.0	3.6	mg/Kg			1	6010C
7440-47-3	Chromium	23.3	0.55	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	8.8	0.55	0.055	mg/Kg			1	6010C
7440-50-8	Copper	13.9	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	20300	11.0	3.8	mg/Kg			1	6010C
7439-92-1	Lead	10.6	1.1	0.26	mg/Kg			1	6010C
7439-95-4	Magnesium	13100	22.0	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	367	0.22	0.035	mg/Kg			1	6010C
7440-02-0	Nickel	25.3	5.5	0.25	mg/Kg			1	6010C
7440-09-7	Potassium	4860	33.0	22.0	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.4	0.44	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.66	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	187	154	14.3	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.6	0.33	mg/Kg			1	6010C
7440-62-2	Vanadium	33.8	0.55	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	55.6	2.2	0.70	mg/Kg			1	6010C
7439-97-6	Hg	0.0094	0.015	0.0061	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-79-20-0-1 Lab Sample ID: 480-177721-12

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid Date Sampled: 11/04/2020 09:55

Reporting Basis: DRY Date Received: 11/04/2020 15:00

% Solids: 84.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	31900	11.8	5.2	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.7	0.47	mg/Kg			1	6010C
7440-38-2	Arsenic	3.6	2.4	0.47	mg/Kg			1	6010C
7440-39-3	Barium	274	0.59	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	4.8	0.24	0.033	mg/Kg			1	6010C
7440-43-9	Cadmium	0.078	0.24	0.035	mg/Kg	J		1	6010C
7440-70-2	Calcium	179000	118	7.8	mg/Kg			2	6010C
7440-47-3	Chromium	37.0	1.2	0.47	mg/Kg			2	6010C
7440-48-4	Cobalt	3.1	0.59	0.059	mg/Kg			1	6010C
7440-50-8	Copper	18.4	2.4	0.50	mg/Kg			2	6010C
7439-89-6	Iron	10800	11.8	4.1	mg/Kg			1	6010C
7439-92-1	Lead	20.0	1.2	0.28	mg/Kg			1	6010C
7439-95-4	Magnesium	24800	47.3	2.2	mg/Kg			2	6010C
7439-96-5	Manganese	7480	0.47	0.076	mg/Kg			2	6010C
7440-02-0	Nickel	13.1	5.9	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	2490	35.5	23.6	mg/Kg			1	6010C
7782-49-2	Selenium	1.8	9.5	0.95	mg/Kg	J		2	6010C
7440-22-4	Silver	ND	1.4	0.47	mg/Kg			2	6010C
7440-23-5	Sodium	936	165	15.4	mg/Kg			1	6010C
7440-28-0	Thallium	ND	14.2	0.71	mg/Kg			2	6010C
7440-62-2	Vanadium	15.3	0.59	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	24.8	2.4	0.76	mg/Kg			1	6010C
7439-97-6	Hg	0.043	0.021	0.0083	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-79-20-3.5-4.5 Lab Sample ID: 480-177721-13

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid Date Sampled: 11/04/2020 09:55

Reporting Basis: DRY Date Received: 11/04/2020 15:00

% Solids: 93.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18100	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.9	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	4.1	2.3	0.45	mg/Kg			1	6010C
7440-39-3	Barium	114	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.91	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.23	0.034	mg/Kg			1	6010C
7440-70-2	Calcium	50900	56.5	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	22.5	0.56	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	11.5	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	15.7	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	21600	11.3	4.0	mg/Kg			1	6010C
7439-92-1	Lead	11.1	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	13200	22.6	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	578	0.23	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	27.4	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	4860	33.9	22.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	211	158	14.7	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	34.6	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	47.0	2.3	0.72	mg/Kg			1	6010C
7439-97-6	Hg	0.012	0.018	0.0073	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-33-20-0-1 Lab Sample ID: 480-177721-24

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid Date Sampled: 11/04/2020 12:50

Reporting Basis: DRY Date Received: 11/04/2020 15:00

% Solids: 94.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	2880	10.2	4.5	mg/Kg			1	6010C
7440-36-0	Antimony	ND	15.2	0.41	mg/Kg			1	6010C
7440-38-2	Arsenic	3.8	2.0	0.41	mg/Kg			1	6010C
7440-39-3	Barium	17.0	0.51	0.11	mg/Kg			1	6010C
7440-41-7	Beryllium	0.16	0.20	0.028	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.33	0.20	0.030	mg/Kg			1	6010C
7440-70-2	Calcium	136000	102	6.7	mg/Kg			2	6010C
7440-47-3	Chromium	24.2	0.51	0.20	mg/Kg			1	6010C
7440-48-4	Cobalt	3.7	0.51	0.051	mg/Kg			1	6010C
7440-50-8	Copper	19.0	2.0	0.43	mg/Kg			2	6010C
7439-89-6	Iron	10400	10.2	3.6	mg/Kg			1	6010C
7439-92-1	Lead	28.7	1.0	0.24	mg/Kg			1	6010C
7439-95-4	Magnesium	30700	20.3	0.94	mg/Kg			1	6010C
7439-96-5	Manganese	334	0.20	0.033	mg/Kg			1	6010C
7440-02-0	Nickel	19.0	5.1	0.23	mg/Kg			1	6010C
7440-09-7	Potassium	1080	30.5	20.3	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.1	0.41	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.61	0.20	mg/Kg			1	6010C
7440-23-5	Sodium	151	142	13.2	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.1	0.30	mg/Kg			1	6010C
7440-62-2	Vanadium	7.7	0.51	0.11	mg/Kg			1	6010C
7440-66-6	Zinc	118	2.0	0.65	mg/Kg			1	6010C
7439-97-6	Hg	0.018	0.017	0.0070	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-21-20-0-1 Lab Sample ID: 480-177721-26

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid Date Sampled: 11/04/2020 13:05

Reporting Basis: DRY Date Received: 11/04/2020 15:00

% Solids: 82.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4260	12.5	5.5	mg/Kg			1	6010C
7440-36-0	Antimony	ND	37.4	1.0	mg/Kg			2	6010C
7440-38-2	Arsenic	6.7	5.0	1.0	mg/Kg			2	6010C
7440-39-3	Barium	37.4	0.62	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.22	0.25	0.035	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.62	0.50	0.075	mg/Kg			2	6010C
7440-70-2	Calcium	146000	125	8.2	mg/Kg			2	6010C
7440-47-3	Chromium	215	1.2	0.50	mg/Kg			2	6010C
7440-48-4	Cobalt	20.0	0.62	0.062	mg/Kg			1	6010C
7440-50-8	Copper	140	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	76400	24.9	8.7	mg/Kg			2	6010C
7439-92-1	Lead	107	2.5	0.60	mg/Kg			2	6010C
7439-95-4	Magnesium	51700	24.9	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	1130	0.50	0.080	mg/Kg			2	6010C
7440-02-0	Nickel	273	12.5	0.57	mg/Kg			2	6010C
7440-09-7	Potassium	1170	37.4	24.9	mg/Kg			1	6010C
7782-49-2	Selenium	ND	10	1.0	mg/Kg			2	6010C
7440-22-4	Silver	1.1	1.5	0.50	mg/Kg	J		2	6010C
7440-23-5	Sodium	241	175	16.2	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.5	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	43.9	1.2	0.27	mg/Kg			2	6010C
7440-66-6	Zinc	205	2.5	0.80	mg/Kg			1	6010C
7439-97-6	Hg	0.024	0.024	0.0098	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-20-20-0-1 | Lab Sample ID: 480-177721-28

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/04/2020 13:10

Reporting Basis: DRY | Date Received: 11/04/2020 15:00

% Solids: 80.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6090	12.0	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.9	0.48	mg/Kg			1	6010C
7440-38-2	Arsenic	4.6	2.4	0.48	mg/Kg			1	6010C
7440-39-3	Barium	41.1	0.60	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.59	0.24	0.033	mg/Kg			1	6010C
7440-43-9	Cadmium	0.060	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	158000	120	7.9	mg/Kg			2	6010C
7440-47-3	Chromium	46.8	0.60	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	6.2	0.60	0.060	mg/Kg			1	6010C
7440-50-8	Copper	119	2.4	0.50	mg/Kg			2	6010C
7439-89-6	Iron	22000	12.0	4.2	mg/Kg			1	6010C
7439-92-1	Lead	35.7	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	40000	23.9	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	533	0.24	0.038	mg/Kg			1	6010C
7440-02-0	Nickel	70.2	6.0	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1460	35.9	23.9	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.8	0.48	mg/Kg			1	6010C
7440-22-4	Silver	0.38	0.72	0.24	mg/Kg	J		1	6010C
7440-23-5	Sodium	251	167	15.5	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.2	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	13.3	0.60	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	86.2	2.4	0.77	mg/Kg			1	6010C
7439-97-6	Hg	0.032	0.022	0.0091	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-36-20-0-1 | Lab Sample ID: 480-177826-6

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/05/2020 12:15

Reporting Basis: DRY | Date Received: 11/05/2020 14:37

% Solids: 92.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4130	10.2	4.5	mg/Kg			1	6010C
7440-36-0	Antimony	ND	15.3	0.41	mg/Kg		UJ	1	6010C
7440-38-2	Arsenic	3.7	2.0	0.41	mg/Kg			1	6010C
7440-39-3	Barium	49.0	0.51	0.11	mg/Kg	J+		1	6010C
7440-41-7	Beryllium	0.41	0.20	0.029	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.20	0.031	mg/Kg			1	6010C
7440-70-2	Calcium	135000	102	6.7	mg/Kg			2	6010C
7440-47-3	Chromium	88.4	0.51	0.20	mg/Kg	J-		1	6010C
7440-48-4	Cobalt	9.7	0.51	0.051	mg/Kg			1	6010C
7440-50-8	Copper	141	2.0	0.43	mg/Kg	J-		2	6010C
7439-89-6	Iron	48400	10.2	3.6	mg/Kg			1	6010C
7439-92-1	Lead	71.1	1.0	0.24	mg/Kg	J-		1	6010C
7439-95-4	Magnesium	16800	20.4	0.94	mg/Kg			1	6010C
7439-96-5	Manganese	747	0.20	0.033	mg/Kg	J+		1	6010C
7440-02-0	Nickel	155	5.1	0.23	mg/Kg	J-		1	6010C
7440-09-7	Potassium	1080	30.6	20.4	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.1	0.41	mg/Kg			1	6010C
7440-22-4	Silver	0.80	0.61	0.20	mg/Kg			1	6010C
7440-23-5	Sodium	182	143	13.2	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.1	0.31	mg/Kg			1	6010C
7440-62-2	Vanadium	12.4	0.51	0.11	mg/Kg			1	6010C
7440-66-6	Zinc	133	2.0	0.65	mg/Kg	J-		1	6010C
7439-97-6	Hg	0.028	0.020	0.0080	mg/Kg			1	7471B

FD OF SF-36-20 0-1

Client Sample ID: FD-110520-3 Lab Sample ID: 480-177826-7

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid Date Sampled: 11/05/2020 00:00

Reporting Basis: DRY Date Received: 11/05/2020 14:37

% Solids: 93.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5160	10.8	4.8	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.3	0.43	mg/Kg	UJ		1	6010C
7440-38-2	Arsenic	2.8	2.2	0.43	mg/Kg			1	6010C
7440-39-3	Barium	62.9	0.54	0.12	mg/Kg	J+		1	6010C
7440-41-7	Beryllium	0.67	0.22	0.030	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.22	0.033	mg/Kg			1	6010C
7440-70-2	Calcium	138000	108	7.2	mg/Kg			2	6010C
7440-47-3	Chromium	52.3	0.54	0.22	mg/Kg	J-		1	6010C
7440-48-4	Cobalt	6.3	0.54	0.054	mg/Kg			1	6010C
7440-50-8	Copper	71.3	2.2	0.46	mg/Kg	J-		2	6010C
7439-89-6	Iron	30000	10.8	3.8	mg/Kg			1	6010C
7439-92-1	Lead	43.0	1.1	0.26	mg/Kg	J-		1	6010C
7439-95-4	Magnesium	21600	21.7	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	808	0.22	0.035	mg/Kg			1	6010C
7440-02-0	Nickel	106	5.4	0.25	mg/Kg	J-		1	6010C
7440-09-7	Potassium	998	32.5	21.7	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.3	0.43	mg/Kg			1	6010C
7440-22-4	Silver	0.49	0.65	0.22	mg/Kg	J		1	6010C
7440-23-5	Sodium	202	152	14.1	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.5	0.33	mg/Kg			1	6010C
7440-62-2	Vanadium	9.4	0.54	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	99.9	2.2	0.69	mg/Kg	J-		1	6010C
7439-97-6	Hg	0.032	0.020	0.0079	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-34-20-0-1 | Lab Sample ID: 480-177826-9

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/05/2020 12:30

Reporting Basis: DRY | Date Received: 11/05/2020 14:37

% Solids: 93.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5090	11.1	4.9	mg/Kg			1	6010C
7440-36-0	Antimony	ND	33.4	0.89	mg/Kg			2	6010C
7440-38-2	Arsenic	6.4	4.5	0.89	mg/Kg			2	6010C
7440-39-3	Barium	47.3	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.24	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	0.13	0.45	0.067	mg/Kg	J		2	6010C
7440-70-2	Calcium	76300	55.7	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	87.0	1.1	0.45	mg/Kg			2	6010C
7440-48-4	Cobalt	11.5	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	123	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	82200	22.3	7.8	mg/Kg			2	6010C
7439-92-1	Lead	109	2.2	0.53	mg/Kg			2	6010C
7439-95-4	Magnesium	45700	22.3	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	1050	0.45	0.071	mg/Kg			2	6010C
7440-02-0	Nickel	135	11.1	0.51	mg/Kg			2	6010C
7440-09-7	Potassium	1570	33.4	22.3	mg/Kg			1	6010C
7782-49-2	Selenium	ND	8.9	0.89	mg/Kg			2	6010C
7440-22-4	Silver	1.1	1.3	0.45	mg/Kg	J		2	6010C
7440-23-5	Sodium	171	156	14.5	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.7	0.33	mg/Kg			1	6010C
7440-62-2	Vanadium	19.2	1.1	0.24	mg/Kg			2	6010C
7440-66-6	Zinc	170	2.2	0.71	mg/Kg			1	6010C
7439-97-6	Hg	0.057	0.020	0.0082	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-56-20-1-5 | Lab Sample ID: 480-177832-20

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid | Date Sampled: 11/05/2020 15:22

Reporting Basis: DRY | Date Received: 11/06/2020 15:00

% Solids: 91.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3560	11.5	5.1	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.2	0.46	mg/Kg			1	6010C
7440-38-2	Arsenic	2.3	2.3	0.46	mg/Kg			1	6010C
7440-39-3	Barium	15.0	0.57	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.17	0.23	0.032	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.11	0.23	0.034	mg/Kg	J		1	6010C
7440-70-2	Calcium	94600	57.4	3.8	mg/Kg			1	6010C
7440-47-3	Chromium	4.9	0.57	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	1.8	0.57	0.057	mg/Kg			1	6010C
7440-50-8	Copper	7.9	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	5470	11.5	4.0	mg/Kg			1	6010C
7439-92-1	Lead	6.2	1.1	0.28	mg/Kg			1	6010C
7439-95-4	Magnesium	45500	23.0	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	257	0.23	0.037	mg/Kg			1	6010C
7440-02-0	Nickel	4.6	5.7	0.26	mg/Kg	J		1	6010C
7440-09-7	Potassium	1360	34.5	23.0	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.6	0.46	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.69	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	197	161	14.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.9	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	7.5	0.57	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	29.6	2.3	0.74	mg/Kg			1	6010C
7439-97-6	Hg	ND	0.021	0.0085	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-43-20-0-0.5 Lab Sample ID: 480-177832-43

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG ID.: 480-177721

Matrix: Solid Date Sampled: 11/06/2020 09:10

Reporting Basis: DRY Date Received: 11/06/2020 15:00

% Solids: 95.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4840	10.1	4.5	mg/Kg			1	6010C
7440-36-0	Antimony	ND	15.2	0.41	mg/Kg			1	6010C
7440-38-2	Arsenic	3.9	2.0	0.41	mg/Kg			1	6010C
7440-39-3	Barium	24.4	0.51	0.11	mg/Kg			1	6010C
7440-41-7	Beryllium	0.24	0.20	0.028	mg/Kg			1	6010C
7440-43-9	Cadmium	0.39	0.20	0.030	mg/Kg			1	6010C
7440-70-2	Calcium	83800	50.7	3.3	mg/Kg			1	6010C
7440-47-3	Chromium	22.1	0.51	0.20	mg/Kg			1	6010C
7440-48-4	Cobalt	4.1	0.51	0.051	mg/Kg			1	6010C
7440-50-8	Copper	26.4	1.0	0.21	mg/Kg			1	6010C
7439-89-6	Iron	15100	10.1	3.5	mg/Kg			1	6010C
7439-92-1	Lead	28.3	1.0	0.24	mg/Kg			1	6010C
7439-95-4	Magnesium	34600	20.3	0.94	mg/Kg			1	6010C
7439-96-5	Manganese	484	0.20	0.032	mg/Kg			1	6010C
7440-02-0	Nickel	20.8	5.1	0.23	mg/Kg			1	6010C
7440-09-7	Potassium	1550	30.4	20.3	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.1	0.41	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.61	0.20	mg/Kg			1	6010C
7440-23-5	Sodium	215	142	13.2	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.1	0.30	mg/Kg			1	6010C
7440-62-2	Vanadium	14.8	0.51	0.11	mg/Kg			1	6010C
7440-66-6	Zinc	77.5	2.0	0.65	mg/Kg			1	6010C
7439-97-6	Hg	0.052	0.018	0.0072	mg/Kg			1	7471B

SDG

J179270

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 Lab Sample ID: 480-179270-1

Matrix: Solid Lab File ID: F9433.D

Analysis Method: 8260C Date Collected: 12/07/2020 14:00

Sample wt/vol: 5.15(g) Date Analyzed: 12/11/2020 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 9.9 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.4	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.4	0.87
79-00-5	1,1,2-Trichloroethane	ND		5.4	0.70
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2
75-34-3	1,1-Dichloroethane	ND		5.4	0.66
75-35-4	1,1-Dichloroethene	ND		5.4	0.66
120-82-1	1,2,4-Trichlorobenzene	ND		5.4	0.33
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.4	2.7
95-50-1	1,2-Dichlorobenzene	ND		5.4	0.42
107-06-2	1,2-Dichloroethane	ND		5.4	0.27
78-87-5	1,2-Dichloropropane	ND		5.4	2.7
541-73-1	1,3-Dichlorobenzene	ND		5.4	0.28
106-46-7	1,4-Dichlorobenzene	ND		5.4	0.75
78-93-3	2-Butanone (MEK)	ND		27	2.0
591-78-6	2-Hexanone	ND		27	2.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		27	1.8
67-64-1	Acetone	7.1	J	27	4.5
71-43-2	Benzene	ND		5.4	0.26
75-27-4	Bromodichloromethane	ND		5.4	0.72
75-25-2	Bromoform	ND		5.4	2.7
74-83-9	Bromomethane	ND		5.4	0.48
75-15-0	Carbon disulfide	ND		5.4	2.7
56-23-5	Carbon tetrachloride	ND		5.4	0.52
108-90-7	Chlorobenzene	ND		5.4	0.71
124-48-1	Dibromochloromethane	ND		5.4	0.69
75-00-3	Chloroethane	ND		5.4	1.2
67-66-3	Chloroform	ND		5.4	0.33
74-87-3	Chloromethane	ND		5.4	0.33
156-59-2	cis-1,2-Dichloroethene	ND		5.4	0.69
10061-01-5	cis-1,3-Dichloropropene	ND		5.4	0.78
110-82-7	Cyclohexane	ND		5.4	0.75
75-71-8	Dichlorodifluoromethane	ND		5.4	0.44
100-41-4	Ethylbenzene	ND		5.4	0.37
106-93-4	1,2-Dibromoethane	ND		5.4	0.69
98-82-8	Isopropylbenzene	ND		5.4	0.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 Lab Sample ID: 480-179270-1

Matrix: Solid Lab File ID: F9433.D

Analysis Method: 8260C Date Collected: 12/07/2020 14:00

Sample wt/vol: 5.15(g) Date Analyzed: 12/11/2020 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 9.9 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		27	3.3
1634-04-4	Methyl tert-butyl ether	ND		5.4	0.53
108-87-2	Methylcyclohexane	ND		5.4	0.82
75-09-2	Methylene Chloride	ND		5.4	2.5
100-42-5	Styrene	ND		5.4	0.27
127-18-4	Tetrachloroethene	ND		5.4	0.72
108-88-3	Toluene	1.3	J	5.4	0.41
156-60-5	trans-1,2-Dichloroethene	ND		5.4	0.56
10061-02-6	trans-1,3-Dichloropropene	ND		5.4	2.4
79-01-6	Trichloroethene	ND		5.4	1.2
75-69-4	Trichlorofluoromethane	ND		5.4	0.51
75-01-4	Vinyl chloride	ND		5.4	0.66
1330-20-7	Xylenes, Total	ND		11	0.90

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 | Lab Sample ID: 480-179270-1

Matrix: Solid | Lab File ID: F9433.D

Analysis Method: 8260C | Date Collected: 12/07/2020 14:00

Sample wt/vol: 5.15(g) | Date Analyzed: 12/11/2020 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 9.9 | Level: (low/med) Low

Analysis Batch No.: 562844 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 24

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.99	24	T J N	93%

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Matrix: Solid Lab File ID: F9434.D

Analysis Method: 8260C Date Collected: 12/08/2020 10:10

Sample wt/vol: 5(g) Date Analyzed: 12/11/2020 14:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 18.7 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.1	0.45
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.1	1.0
79-00-5	1,1,2-Trichloroethane	ND		6.1	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.1	1.4
75-34-3	1,1-Dichloroethane	ND		6.1	0.75
75-35-4	1,1-Dichloroethene	ND		6.1	0.75
120-82-1	1,2,4-Trichlorobenzene	ND		6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.1	3.1
95-50-1	1,2-Dichlorobenzene	ND		6.1	0.48
107-06-2	1,2-Dichloroethane	ND		6.1	0.31
78-87-5	1,2-Dichloropropane	ND		6.1	3.1
541-73-1	1,3-Dichlorobenzene	ND		6.1	0.32
106-46-7	1,4-Dichlorobenzene	ND		6.1	0.86
78-93-3	2-Butanone (MEK)	ND		31	2.3
591-78-6	2-Hexanone	ND		31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		31	2.0
67-64-1	Acetone	ND		31	5.2
71-43-2	Benzene	ND		6.1	0.30
75-27-4	Bromodichloromethane	ND		6.1	0.82
75-25-2	Bromoform	ND		6.1	3.1
74-83-9	Bromomethane	ND		6.1	0.55
75-15-0	Carbon disulfide	ND		6.1	3.1
56-23-5	Carbon tetrachloride	ND		6.1	0.60
108-90-7	Chlorobenzene	ND		6.1	0.81
124-48-1	Dibromochloromethane	ND		6.1	0.79
75-00-3	Chloroethane	ND		6.1	1.4
67-66-3	Chloroform	ND		6.1	0.38
74-87-3	Chloromethane	ND		6.1	0.37
156-59-2	cis-1,2-Dichloroethene	ND		6.1	0.79
10061-01-5	cis-1,3-Dichloropropene	ND		6.1	0.89
110-82-7	Cyclohexane	ND		6.1	0.86
75-71-8	Dichlorodifluoromethane	ND		6.1	0.51
100-41-4	Ethylbenzene	ND		6.1	0.42
106-93-4	1,2-Dibromoethane	ND		6.1	0.79
98-82-8	Isopropylbenzene	ND		6.1	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Matrix: Solid Lab File ID: F9434.D

Analysis Method: 8260C Date Collected: 12/08/2020 10:10

Sample wt/vol: 5(g) Date Analyzed: 12/11/2020 14:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 18.7 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		31	3.7
1634-04-4	Methyl tert-butyl ether	ND		6.1	0.60
108-87-2	Methylcyclohexane	ND		6.1	0.93
75-09-2	Methylene Chloride	2.8	J	6.1	2.8
100-42-5	Styrene	ND		6.1	0.31
127-18-4	Tetrachloroethene	ND		6.1	0.83
108-88-3	Toluene	1.2	J	6.1	0.46
156-60-5	trans-1,2-Dichloroethene	ND		6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	ND		6.1	2.7
79-01-6	Trichloroethene	ND		6.1	1.4
75-69-4	Trichlorofluoromethane	ND		6.1	0.58
75-01-4	Vinyl chloride	ND		6.1	0.75
1330-20-7	Xylenes, Total	ND		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Matrix: Solid Lab File ID: F9434.D

Analysis Method: 8260C Date Collected: 12/08/2020 10:10

Sample wt/vol: 5(g) Date Analyzed: 12/11/2020 14:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 18.7 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 27

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	5.00	27	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Matrix: Solid Lab File ID: F9435.D

Analysis Method: 8260C Date Collected: 12/08/2020 10:15

Sample wt/vol: 5.05(g) Date Analyzed: 12/11/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.3 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.3	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.3	1.0
79-00-5	1,1,2-Trichloroethane	ND		6.3	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	1.4
75-34-3	1,1-Dichloroethane	ND		6.3	0.77
75-35-4	1,1-Dichloroethene	ND		6.3	0.77
120-82-1	1,2,4-Trichlorobenzene	ND		6.3	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.3	3.1
95-50-1	1,2-Dichlorobenzene	ND		6.3	0.49
107-06-2	1,2-Dichloroethane	ND		6.3	0.32
78-87-5	1,2-Dichloropropane	ND		6.3	3.1
541-73-1	1,3-Dichlorobenzene	ND		6.3	0.32
106-46-7	1,4-Dichlorobenzene	ND		6.3	0.88
78-93-3	2-Butanone (MEK)	ND		31	2.3
591-78-6	2-Hexanone	ND		31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		31	2.1
67-64-1	Acetone	19	J	31	5.3
71-43-2	Benzene	ND		6.3	0.31
75-27-4	Bromodichloromethane	ND		6.3	0.84
75-25-2	Bromoform	ND		6.3	3.1
74-83-9	Bromomethane	ND		6.3	0.57
75-15-0	Carbon disulfide	ND		6.3	3.1
56-23-5	Carbon tetrachloride	ND		6.3	0.61
108-90-7	Chlorobenzene	ND		6.3	0.83
124-48-1	Dibromochloromethane	ND		6.3	0.81
75-00-3	Chloroethane	ND		6.3	1.4
67-66-3	Chloroform	ND		6.3	0.39
74-87-3	Chloromethane	ND		6.3	0.38
156-59-2	cis-1,2-Dichloroethene	ND		6.3	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		6.3	0.91
110-82-7	Cyclohexane	ND		6.3	0.88
75-71-8	Dichlorodifluoromethane	ND		6.3	0.52
100-41-4	Ethylbenzene	ND		6.3	0.43
106-93-4	1,2-Dibromoethane	ND		6.3	0.81
98-82-8	Isopropylbenzene	ND		6.3	0.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Matrix: Solid Lab File ID: F9435.D

Analysis Method: 8260C Date Collected: 12/08/2020 10:15

Sample wt/vol: 5.05(g) Date Analyzed: 12/11/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.3 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		31	3.8
1634-04-4	Methyl tert-butyl ether	ND		6.3	0.62
108-87-2	Methylcyclohexane	ND		6.3	0.96
75-09-2	Methylene Chloride	3.6	J	6.3	2.9
100-42-5	Styrene	ND		6.3	0.31
127-18-4	Tetrachloroethene	ND		6.3	0.84
108-88-3	Toluene	0.88	J	6.3	0.48
156-60-5	trans-1,2-Dichloroethene	ND		6.3	0.65
10061-02-6	trans-1,3-Dichloropropene	ND		6.3	2.8
79-01-6	Trichloroethene	ND		6.3	1.4
75-69-4	Trichlorofluoromethane	ND		6.3	0.60
75-01-4	Vinyl chloride	ND		6.3	0.77
1330-20-7	Xylenes, Total	ND		13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Matrix: Solid Lab File ID: F9435.D

Analysis Method: 8260C Date Collected: 12/08/2020 10:15

Sample wt/vol: 5.05(g) Date Analyzed: 12/11/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.3 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 32

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	5.00	32	T J N	90%

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Matrix: Solid Lab File ID: F9436.D

Analysis Method: 8260C Date Collected: 12/08/2020 12:05

Sample wt/vol: 5.2(g) Date Analyzed: 12/11/2020 15:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 16.4 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.8	0.42
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.8	0.93
79-00-5	1,1,2-Trichloroethane	ND		5.8	0.75
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.8	1.3
75-34-3	1,1-Dichloroethane	ND		5.8	0.70
75-35-4	1,1-Dichloroethene	ND		5.8	0.70
120-82-1	1,2,4-Trichlorobenzene	ND		5.8	0.35
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.8	2.9
95-50-1	1,2-Dichlorobenzene	ND		5.8	0.45
107-06-2	1,2-Dichloroethane	ND		5.8	0.29
78-87-5	1,2-Dichloropropane	ND		5.8	2.9
541-73-1	1,3-Dichlorobenzene	ND		5.8	0.30
106-46-7	1,4-Dichlorobenzene	ND		5.8	0.81
78-93-3	2-Butanone (MEK)	ND		29	2.1
591-78-6	2-Hexanone	ND		29	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		29	1.9
67-64-1	Acetone	ND		29	4.8
71-43-2	Benzene	ND		5.8	0.28
75-27-4	Bromodichloromethane	ND		5.8	0.77
75-25-2	Bromoform	ND		5.8	2.9
74-83-9	Bromomethane	ND		5.8	0.52
75-15-0	Carbon disulfide	ND		5.8	2.9
56-23-5	Carbon tetrachloride	ND		5.8	0.56
108-90-7	Chlorobenzene	ND		5.8	0.76
124-48-1	Dibromochloromethane	ND		5.8	0.74
75-00-3	Chloroethane	ND		5.8	1.3
67-66-3	Chloroform	ND		5.8	0.36
74-87-3	Chloromethane	ND		5.8	0.35
156-59-2	cis-1,2-Dichloroethene	ND		5.8	0.74
10061-01-5	cis-1,3-Dichloropropene	ND		5.8	0.83
110-82-7	Cyclohexane	ND		5.8	0.81
75-71-8	Dichlorodifluoromethane	ND		5.8	0.48
100-41-4	Ethylbenzene	ND		5.8	0.40
106-93-4	1,2-Dibromoethane	ND		5.8	0.74
98-82-8	Isopropylbenzene	ND		5.8	0.87

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Matrix: Solid Lab File ID: F9436.D

Analysis Method: 8260C Date Collected: 12/08/2020 12:05

Sample wt/vol: 5.2(g) Date Analyzed: 12/11/2020 15:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 16.4 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		29	3.5
1634-04-4	Methyl tert-butyl ether	ND		5.8	0.56
108-87-2	Methylcyclohexane	ND		5.8	0.87
75-09-2	Methylene Chloride	ND		5.8	2.6
100-42-5	Styrene	ND		5.8	0.29
127-18-4	Tetrachloroethene	ND		5.8	0.77
108-88-3	Toluene	ND		5.8	0.43
156-60-5	trans-1,2-Dichloroethene	ND		5.8	0.59
10061-02-6	trans-1,3-Dichloropropene	ND		5.8	2.5
79-01-6	Trichloroethene	ND		5.8	1.3
75-69-4	Trichlorofluoromethane	ND		5.8	0.54
75-01-4	Vinyl chloride	ND		5.8	0.70
1330-20-7	Xylenes, Total	ND		12	0.97

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-126
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Matrix: Solid Lab File ID: F9436.D

Analysis Method: 8260C Date Collected: 12/08/2020 12:05

Sample wt/vol: 5.2(g) Date Analyzed: 12/11/2020 15:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 16.4 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 25

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	5.00	25	T J N	94%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 Lab Sample ID: 480-179270-7

Matrix: Solid Lab File ID: F9437.D

Analysis Method: 8260C Date Collected: 12/08/2020 13:20

Sample wt/vol: 5.03(g) Date Analyzed: 12/11/2020 15:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 14.8 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.8	0.42
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.8	0.95
79-00-5	1,1,2-Trichloroethane	ND		5.8	0.76
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.8	1.3
75-34-3	1,1-Dichloroethane	ND		5.8	0.71
75-35-4	1,1-Dichloroethene	ND		5.8	0.71
120-82-1	1,2,4-Trichlorobenzene	ND		5.8	0.35
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.8	2.9
95-50-1	1,2-Dichlorobenzene	ND		5.8	0.46
107-06-2	1,2-Dichloroethane	ND		5.8	0.29
78-87-5	1,2-Dichloropropane	ND		5.8	2.9
541-73-1	1,3-Dichlorobenzene	ND		5.8	0.30
106-46-7	1,4-Dichlorobenzene	ND		5.8	0.82
78-93-3	2-Butanone (MEK)	ND		29	2.1
591-78-6	2-Hexanone	ND		29	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		29	1.9
67-64-1	Acetone	9.7	J	29	4.9
71-43-2	Benzene	ND		5.8	0.29
75-27-4	Bromodichloromethane	ND		5.8	0.78
75-25-2	Bromoform	ND		5.8	2.9
74-83-9	Bromomethane	ND		5.8	0.52
75-15-0	Carbon disulfide	ND		5.8	2.9
56-23-5	Carbon tetrachloride	ND		5.8	0.56
108-90-7	Chlorobenzene	ND		5.8	0.77
124-48-1	Dibromochloromethane	ND		5.8	0.75
75-00-3	Chloroethane	ND		5.8	1.3
67-66-3	Chloroform	ND		5.8	0.36
74-87-3	Chloromethane	ND		5.8	0.35
156-59-2	cis-1,2-Dichloroethene	ND		5.8	0.75
10061-01-5	cis-1,3-Dichloropropene	ND		5.8	0.84
110-82-7	Cyclohexane	ND		5.8	0.82
75-71-8	Dichlorodifluoromethane	ND		5.8	0.48
100-41-4	Ethylbenzene	0.43	J	5.8	0.40
106-93-4	1,2-Dibromoethane	ND		5.8	0.75
98-82-8	Isopropylbenzene	ND		5.8	0.88

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 Lab Sample ID: 480-179270-7

Matrix: Solid Lab File ID: F9437.D

Analysis Method: 8260C Date Collected: 12/08/2020 13:20

Sample wt/vol: 5.03(g) Date Analyzed: 12/11/2020 15:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 14.8 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		29	3.5
1634-04-4	Methyl tert-butyl ether	ND		5.8	0.57
108-87-2	Methylcyclohexane	ND		5.8	0.89
75-09-2	Methylene Chloride	ND		5.8	2.7
100-42-5	Styrene	ND		5.8	0.29
127-18-4	Tetrachloroethene	ND		5.8	0.78
108-88-3	Toluene	0.77	J	5.8	0.44
156-60-5	trans-1,2-Dichloroethene	ND		5.8	0.60
10061-02-6	trans-1,3-Dichloropropene	ND		5.8	2.6
79-01-6	Trichloroethene	ND		5.8	1.3
75-69-4	Trichlorofluoromethane	ND		5.8	0.55
75-01-4	Vinyl chloride	ND		5.8	0.71
1330-20-7	Xylenes, Total	1.6	J	12	0.98

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-126
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 Lab Sample ID: 480-179270-7

Matrix: Solid Lab File ID: F9437.D

Analysis Method: 8260C Date Collected: 12/08/2020 13:20

Sample wt/vol: 5.03(g) Date Analyzed: 12/11/2020 15:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 14.8 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 47

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.99	26	T J N	90%
	Unknown	12.78	21	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Matrix: Solid Lab File ID: F9438.D

Analysis Method: 8260C Date Collected: 12/09/2020 09:45

Sample wt/vol: 5.05(g) Date Analyzed: 12/11/2020 16:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.3	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.3	1.0
79-00-5	1,1,2-Trichloroethane	ND		6.3	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	1.4
75-34-3	1,1-Dichloroethane	ND		6.3	0.77
75-35-4	1,1-Dichloroethene	ND		6.3	0.77
120-82-1	1,2,4-Trichlorobenzene	ND		6.3	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.3	3.2
95-50-1	1,2-Dichlorobenzene	ND		6.3	0.49
107-06-2	1,2-Dichloroethane	ND		6.3	0.32
78-87-5	1,2-Dichloropropane	ND		6.3	3.2
541-73-1	1,3-Dichlorobenzene	ND		6.3	0.33
106-46-7	1,4-Dichlorobenzene	ND		6.3	0.89
78-93-3	2-Butanone (MEK)	6.6	J	32	2.3
591-78-6	2-Hexanone	ND		32	3.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		32	2.1
67-64-1	Acetone	35		32	5.3
71-43-2	Benzene	ND		6.3	0.31
75-27-4	Bromodichloromethane	ND		6.3	0.85
75-25-2	Bromoform	ND		6.3	3.2
74-83-9	Bromomethane	ND		6.3	0.57
75-15-0	Carbon disulfide	ND		6.3	3.2
56-23-5	Carbon tetrachloride	ND		6.3	0.61
108-90-7	Chlorobenzene	ND		6.3	0.84
124-48-1	Dibromochloromethane	ND		6.3	0.81
75-00-3	Chloroethane	ND		6.3	1.4
67-66-3	Chloroform	ND		6.3	0.39
74-87-3	Chloromethane	ND		6.3	0.38
156-59-2	cis-1,2-Dichloroethene	ND		6.3	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		6.3	0.91
110-82-7	Cyclohexane	ND		6.3	0.89
75-71-8	Dichlorodifluoromethane	ND		6.3	0.52
100-41-4	Ethylbenzene	ND		6.3	0.44
106-93-4	1,2-Dibromoethane	ND		6.3	0.81
98-82-8	Isopropylbenzene	ND		6.3	0.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Matrix: Solid Lab File ID: F9438.D

Analysis Method: 8260C Date Collected: 12/09/2020 09:45

Sample wt/vol: 5.05(g) Date Analyzed: 12/11/2020 16:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		32	3.8
1634-04-4	Methyl tert-butyl ether	ND		6.3	0.62
108-87-2	Methylcyclohexane	ND		6.3	0.96
75-09-2	Methylene Chloride	ND		6.3	2.9
100-42-5	Styrene	ND		6.3	0.32
127-18-4	Tetrachloroethene	ND		6.3	0.85
108-88-3	Toluene	0.80	J	6.3	0.48
156-60-5	trans-1,2-Dichloroethene	ND		6.3	0.65
10061-02-6	trans-1,3-Dichloropropene	ND		6.3	2.8
79-01-6	Trichloroethene	ND		6.3	1.4
75-69-4	Trichlorofluoromethane	ND		6.3	0.60
75-01-4	Vinyl chloride	ND		6.3	0.77
1330-20-7	Xylenes, Total	ND		13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Matrix: Solid Lab File ID: F9438.D

Analysis Method: 8260C Date Collected: 12/09/2020 09:45

Sample wt/vol: 5.05(g) Date Analyzed: 12/11/2020 16:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 38

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.99	28	T J N	90%
	Unknown	11.75	10	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid Lab File ID: F9439.D

Analysis Method: 8260C Date Collected: 12/09/2020 12:20

Sample wt/vol: 5.06(g) Date Analyzed: 12/11/2020 16:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 13.3 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		28	3.4
1634-04-4	Methyl tert-butyl ether	ND		5.7	0.56
108-87-2	Methylcyclohexane	ND		5.7	0.87
75-09-2	Methylene Chloride	2.6	J	5.7	2.6
100-42-5	Styrene	ND		5.7	0.28
127-18-4	Tetrachloroethene	ND		5.7	0.76
108-88-3	Toluene	ND		5.7	0.43
156-60-5	trans-1,2-Dichloroethene	ND		5.7	0.59
10061-02-6	trans-1,3-Dichloropropene	ND		5.7	2.5
79-01-6	Trichloroethene	ND		5.7	1.3
75-69-4	Trichlorofluoromethane	ND		5.7	0.54
75-01-4	Vinyl chloride	ND		5.7	0.70
1330-20-7	Xylenes, Total	ND		11	0.96

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		64-126
460-00-4	4-Bromofluorobenzene (Surr)	106		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid Lab File ID: F9439.D

Analysis Method: 8260C Date Collected: 12/09/2020 12:20

Sample wt/vol: 5.06(g) Date Analyzed: 12/11/2020 16:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 13.3 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 1143

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
2958-76-1	Naphthalene, decahydro-2-methyl-	11.54	64	T J N	95%
17301-23-4	Undecane, 2,6-dimethyl-	12.02	190	T J N	94%
	Unknown	12.34	130	T J	
	Unknown	12.46	71	T J	
	Unknown	12.51	220	T J	
	Unknown	12.86	150	T J	
	Unknown	13.19	68	T J	
	Unknown	13.28	66	T J	
5617-41-4	Heptylcyclohexane	13.41	110	T J N	87%
	Unknown	13.46	74	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid (TCLP) Lab File ID: C3161.D

Analysis Method: 8260C Date Collected: 12/09/2020 12:20

Sample wt/vol: 5(mL) Date Analyzed: 12/15/2020 15:39

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 563220 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.010	0.0029
107-06-2	1,2-Dichloroethane	ND		0.010	0.0021
78-93-3	2-Butanone (MEK)	ND		0.050	0.013
71-43-2	Benzene	ND		0.010	0.0041
56-23-5	Carbon tetrachloride	ND		0.010	0.0027
108-90-7	Chlorobenzene	ND		0.010	0.0075
67-66-3	Chloroform	0.0038	J B	0.010	0.0034
127-18-4	Tetrachloroethene	ND		0.010	0.0036
79-01-6	Trichloroethene	ND		0.010	0.0046
75-01-4	Vinyl chloride	ND		0.010	0.0090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 Lab Sample ID: 480-179270-10

Matrix: Solid Lab File ID: F9440.D

Analysis Method: 8260C Date Collected: 12/09/2020 14:17

Sample wt/vol: 5.13(g) Date Analyzed: 12/11/2020 17:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.4 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.4	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.4	1.0
79-00-5	1,1,2-Trichloroethane	ND		6.4	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	1.5
75-34-3	1,1-Dichloroethane	ND		6.4	0.78
75-35-4	1,1-Dichloroethene	ND		6.4	0.78
120-82-1	1,2,4-Trichlorobenzene	ND		6.4	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.4	3.2
95-50-1	1,2-Dichlorobenzene	ND		6.4	0.50
107-06-2	1,2-Dichloroethane	ND		6.4	0.32
78-87-5	1,2-Dichloropropane	ND		6.4	3.2
541-73-1	1,3-Dichlorobenzene	ND		6.4	0.33
106-46-7	1,4-Dichlorobenzene	ND		6.4	0.89
78-93-3	2-Butanone (MEK)	3.1	J	32	2.3
591-78-6	2-Hexanone	ND		32	3.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		32	2.1
67-64-1	Acetone	23	J	32	5.4
71-43-2	Benzene	ND		6.4	0.31
75-27-4	Bromodichloromethane	ND		6.4	0.85
75-25-2	Bromoform	ND		6.4	3.2
74-83-9	Bromomethane	ND		6.4	0.57
75-15-0	Carbon disulfide	ND		6.4	3.2
56-23-5	Carbon tetrachloride	ND		6.4	0.62
108-90-7	Chlorobenzene	ND		6.4	0.84
124-48-1	Dibromochloromethane	ND		6.4	0.81
75-00-3	Chloroethane	ND		6.4	1.4
67-66-3	Chloroform	ND		6.4	0.39
74-87-3	Chloromethane	ND		6.4	0.38
156-59-2	cis-1,2-Dichloroethene	ND		6.4	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		6.4	0.92
110-82-7	Cyclohexane	ND		6.4	0.89
75-71-8	Dichlorodifluoromethane	ND		6.4	0.53
100-41-4	Ethylbenzene	ND		6.4	0.44
106-93-4	1,2-Dibromoethane	ND		6.4	0.82
98-82-8	Isopropylbenzene	ND		6.4	0.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 Lab Sample ID: 480-179270-10

Matrix: Solid Lab File ID: F9440.D

Analysis Method: 8260C Date Collected: 12/09/2020 14:17

Sample wt/vol: 5.13(g) Date Analyzed: 12/11/2020 17:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.4 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		32	3.8
1634-04-4	Methyl tert-butyl ether	ND		6.4	0.62
108-87-2	Methylcyclohexane	ND		6.4	0.97
75-09-2	Methylene Chloride	ND		6.4	2.9
100-42-5	Styrene	ND		6.4	0.32
127-18-4	Tetrachloroethene	ND		6.4	0.85
108-88-3	Toluene	0.53	J	6.4	0.48
156-60-5	trans-1,2-Dichloroethene	ND		6.4	0.66
10061-02-6	trans-1,3-Dichloropropene	ND		6.4	2.8
79-01-6	Trichloroethene	ND		6.4	1.4
75-69-4	Trichlorofluoromethane	ND		6.4	0.60
75-01-4	Vinyl chloride	ND		6.4	0.78
1330-20-7	Xylenes, Total	ND		13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 Lab Sample ID: 480-179270-10

Matrix: Solid Lab File ID: F9440.D

Analysis Method: 8260C Date Collected: 12/09/2020 14:17

Sample wt/vol: 5.13(g) Date Analyzed: 12/11/2020 17:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.4 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 130.1

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
~~1868-53-7~~	~~Methane, dibromofluoro~~	~~5.00~~	~~28~~	~~T J N~~	~~90%~~
-	Unknown	12.85	7.9	T J	
	Unknown	12.91	6.7	T J	
	Unknown	13.19	7.8	T J	
	Unknown	13.28	9.3	T J	
	Unknown	13.40	13	T J	
31295-56-4	Dodecane, 2,6,11-trimethyl-	13.46	28	T J N	86%
	Unknown	13.71	9.0	T J	
	Unknown	13.78	12	T J	
	Unknown	13.85	8.4	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 Lab Sample ID: 480-179270-11

Matrix: Solid Lab File ID: F9441.D

Analysis Method: 8260C Date Collected: 12/09/2020 15:45

Sample wt/vol: 5.08(g) Date Analyzed: 12/11/2020 17:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 31.7 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		7.2	0.52
79-34-5	1,1,2,2-Tetrachloroethane	ND		7.2	1.2
79-00-5	1,1,2-Trichloroethane	ND		7.2	0.94
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	1.6
75-34-3	1,1-Dichloroethane	ND		7.2	0.88
75-35-4	1,1-Dichloroethene	ND		7.2	0.88
120-82-1	1,2,4-Trichlorobenzene	ND		7.2	0.44
96-12-8	1,2-Dibromo-3-Chloropropane	ND		7.2	3.6
95-50-1	1,2-Dichlorobenzene	ND		7.2	0.56
107-06-2	1,2-Dichloroethane	ND		7.2	0.36
78-87-5	1,2-Dichloropropane	ND		7.2	3.6
541-73-1	1,3-Dichlorobenzene	ND		7.2	0.37
106-46-7	1,4-Dichlorobenzene	ND		7.2	1.0
78-93-3	2-Butanone (MEK)	ND		36	2.6
591-78-6	2-Hexanone	ND		36	3.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		36	2.4
67-64-1	Acetone	ND		36	6.1
71-43-2	Benzene	ND		7.2	0.35
75-27-4	Bromodichloromethane	ND		7.2	0.97
75-25-2	Bromoform	ND		7.2	3.6
74-83-9	Bromomethane	ND		7.2	0.65
75-15-0	Carbon disulfide	ND		7.2	3.6
56-23-5	Carbon tetrachloride	ND		7.2	0.70
108-90-7	Chlorobenzene	ND		7.2	0.95
124-48-1	Dibromochloromethane	ND		7.2	0.92
75-00-3	Chloroethane	ND		7.2	1.6
67-66-3	Chloroform	ND		7.2	0.45
74-87-3	Chloromethane	ND		7.2	0.44
156-59-2	cis-1,2-Dichloroethene	ND		7.2	0.92
10061-01-5	cis-1,3-Dichloropropene	ND		7.2	1.0
110-82-7	Cyclohexane	ND		7.2	1.0
75-71-8	Dichlorodifluoromethane	ND		7.2	0.60
100-41-4	Ethylbenzene	ND		7.2	0.50
106-93-4	1,2-Dibromoethane	ND		7.2	0.93
98-82-8	Isopropylbenzene	ND		7.2	1.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 Lab Sample ID: 480-179270-11

Matrix: Solid Lab File ID: F9441.D

Analysis Method: 8260C Date Collected: 12/09/2020 15:45

Sample wt/vol: 5.08(g) Date Analyzed: 12/11/2020 17:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 31.7 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		36	4.4
1634-04-4	Methyl tert-butyl ether	ND		7.2	0.71
108-87-2	Methylcyclohexane	ND		7.2	1.1
75-09-2	Methylene Chloride	ND		7.2	3.3
100-42-5	Styrene	ND		7.2	0.36
127-18-4	Tetrachloroethene	ND		7.2	0.97
108-88-3	Toluene	1.7	J	7.2	0.54
156-60-5	trans-1,2-Dichloroethene	ND		7.2	0.74
10061-02-6	trans-1,3-Dichloropropene	ND		7.2	3.2
79-01-6	Trichloroethene	ND		7.2	1.6
75-69-4	Trichlorofluoromethane	ND		7.2	0.68
75-01-4	Vinyl chloride	ND		7.2	0.88
1330-20-7	Xylenes, Total	ND		14	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	100		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 | Lab Sample ID: 480-179270-11

Matrix: Solid | Lab File ID: F9441.D

Analysis Method: 8260C | Date Collected: 12/09/2020 15:45

Sample wt/vol: 5.08(g) | Date Analyzed: 12/11/2020 17:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 31.7 | Level: (low/med) Low

Analysis Batch No.: 562844 | Units: ug/Kg

Number TICs Found: 3 | TIC Result Total: 51.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
~~1868-53-7~~	~~Methane, dibromofluoro-~~	~~4.99~~	~~32~~	~~T J N~~	~~90%~~
-	Unknown	10.26	9.7	T J	
	Unknown	11.71	9.7	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 Lab Sample ID: 480-179270-12

Matrix: Solid Lab File ID: F9442.D

Analysis Method: 8260C Date Collected: 12/10/2020 08:30

Sample wt/vol: 5.15(g) Date Analyzed: 12/11/2020 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 8.5 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.3	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.3	0.86
79-00-5	1,1,2-Trichloroethane	ND		5.3	0.69
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2
75-34-3	1,1-Dichloroethane	ND		5.3	0.65
75-35-4	1,1-Dichloroethene	ND		5.3	0.65
120-82-1	1,2,4-Trichlorobenzene	ND		5.3	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.3	2.7
95-50-1	1,2-Dichlorobenzene	ND		5.3	0.41
107-06-2	1,2-Dichloroethane	ND		5.3	0.27
78-87-5	1,2-Dichloropropane	ND		5.3	2.7
541-73-1	1,3-Dichlorobenzene	ND		5.3	0.27
106-46-7	1,4-Dichlorobenzene	ND		5.3	0.74
78-93-3	2-Butanone (MEK)	ND		27	1.9
591-78-6	2-Hexanone	ND		27	2.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		27	1.7
67-64-1	Acetone	ND		27	4.5
71-43-2	Benzene	ND		5.3	0.26
75-27-4	Bromodichloromethane	ND		5.3	0.71
75-25-2	Bromoform	ND		5.3	2.7
74-83-9	Bromomethane	ND		5.3	0.48
75-15-0	Carbon disulfide	ND		5.3	2.7
56-23-5	Carbon tetrachloride	ND		5.3	0.51
108-90-7	Chlorobenzene	ND		5.3	0.70
124-48-1	Dibromochloromethane	ND		5.3	0.68
75-00-3	Chloroethane	ND		5.3	1.2
67-66-3	Chloroform	ND		5.3	0.33
74-87-3	Chloromethane	ND		5.3	0.32
156-59-2	cis-1,2-Dichloroethene	ND		5.3	0.68
10061-01-5	cis-1,3-Dichloropropene	ND		5.3	0.76
110-82-7	Cyclohexane	ND		5.3	0.74
75-71-8	Dichlorodifluoromethane	ND		5.3	0.44
100-41-4	Ethylbenzene	ND		5.3	0.37
106-93-4	1,2-Dibromoethane	ND		5.3	0.68
98-82-8	Isopropylbenzene	ND		5.3	0.80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 Lab Sample ID: 480-179270-12

Matrix: Solid Lab File ID: F9442.D

Analysis Method: 8260C Date Collected: 12/10/2020 08:30

Sample wt/vol: 5.15(g) Date Analyzed: 12/11/2020 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 8.5 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		27	3.2
1634-04-4	Methyl tert-butyl ether	ND		5.3	0.52
108-87-2	Methylcyclohexane	ND		5.3	0.81
75-09-2	Methylene Chloride	ND		5.3	2.4
100-42-5	Styrene	ND		5.3	0.27
127-18-4	Tetrachloroethene	ND		5.3	0.71
108-88-3	Toluene	4.5	J	5.3	0.40
156-60-5	trans-1,2-Dichloroethene	ND		5.3	0.55
10061-02-6	trans-1,3-Dichloropropene	ND		5.3	2.3
79-01-6	Trichloroethene	ND		5.3	1.2
75-69-4	Trichlorofluoromethane	ND		5.3	0.50
75-01-4	Vinyl chloride	ND		5.3	0.65
1330-20-7	Xylenes, Total	ND		11	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 Lab Sample ID: 480-179270-12

Matrix: Solid Lab File ID: F9442.D

Analysis Method: 8260C Date Collected: 12/10/2020 08:30

Sample wt/vol: 5.15(g) Date Analyzed: 12/11/2020 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 8.5 Level: (low/med) Low

Analysis Batch No.: 562844 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 52.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.95	5.5	T J	
1868-53-7	Methane, dibromofluoro-	4.99	23	T J N	90%
	Unknown	8.79	8.0	T J	
1120-21-4	Undecane	11.01	6.2	T J N	94%
	Unknown	12.08	9.5	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 | Lab Sample ID: 480-179270-1

Matrix: Solid | Lab File ID: V3148756.D

Analysis Method: 8270D | Date Collected: 12/07/2020 14:00

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.14(g) | Date Analyzed: 12/16/2020 19:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1900	510
88-06-2	2,4,6-Trichlorophenol	ND		1900	380
120-83-2	2,4-Dichlorophenol	ND		1900	200
105-67-9	2,4-Dimethylphenol	ND		1900	450
51-28-5	2,4-Dinitrophenol	ND		18000	8700
121-14-2	2,4-Dinitrotoluene	ND		1900	390
606-20-2	2,6-Dinitrotoluene	ND		1900	220
91-58-7	2-Chloronaphthalene	ND		1900	310
95-57-8	2-Chlorophenol	ND		3600	340
91-57-6	2-Methylnaphthalene	ND		1900	380
95-48-7	2-Methylphenol	ND		1900	220
88-74-4	2-Nitroaniline	ND		3600	280
88-75-5	2-Nitrophenol	ND		1900	530
91-94-1	3,3'-Dichlorobenzidine	ND		3600	2200
99-09-2	3-Nitroaniline	ND		3600	520
534-52-1	4,6-Dinitro-2-methylphenol	ND		3600	1900
101-55-3	4-Bromophenyl phenyl ether	ND		1900	260
59-50-7	4-Chloro-3-methylphenol	ND		1900	460
106-47-8	4-Chloroaniline	ND		1900	460
7005-72-3	4-Chlorophenyl phenyl ether	ND		1900	230
106-44-5	4-Methylphenol	ND		3600	220
100-01-6	4-Nitroaniline	ND		3600	980
100-02-7	4-Nitrophenol	ND		3600	1300
83-32-9	Acenaphthene	ND		1900	280
208-96-8	Acenaphthylene	ND		1900	240
98-86-2	Acetophenone	ND		1900	250
120-12-7	Anthracene	ND		1900	460
1912-24-9	Atrazine	ND		1900	650
100-52-7	Benzaldehyde	ND		1900	1500
56-55-3	Benzo(a)anthracene	ND		1900	190
50-32-8	Benzo(a)pyrene	ND		1900	280
205-99-2	Benzo(b)fluoranthene	ND		1900	300
191-24-2	Benzo(g,h,i)perylene	ND		1900	200
207-08-9	Benzo(k)fluoranthene	ND		1900	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 Lab Sample ID: 480-179270-1

Matrix: Solid Lab File ID: V3148756.D

Analysis Method: 8270D Date Collected: 12/07/2020 14:00

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.14(g) Date Analyzed: 12/16/2020 19:48

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 9.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1900	280
108-60-1	bis (2-chloroisopropyl) ether	ND		1900	380
111-91-1	Bis(2-chloroethoxy)methane	ND		1900	400
111-44-4	Bis(2-chloroethyl)ether	ND		1900	240
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1900	640
85-68-7	Butyl benzyl phthalate	ND		1900	310
105-60-2	Caprolactam	ND		1900	560
86-74-8	Carbazole	ND		1900	220
218-01-9	Chrysene	ND		1900	420
53-70-3	Dibenz(a,h)anthracene	ND		1900	330
132-64-9	Dibenzofuran	ND		1900	220
84-66-2	Diethyl phthalate	ND		1900	240
131-11-3	Dimethyl phthalate	ND		1900	220
84-74-2	Di-n-butyl phthalate	ND		1900	320
117-84-0	Di-n-octyl phthalate	ND		1900	220
206-44-0	Fluoranthene	330	J	1900	200
86-73-7	Fluorene	ND		1900	220
118-74-1	Hexachlorobenzene	ND		1900	250
87-68-3	Hexachlorobutadiene	ND		1900	280
77-47-4	Hexachlorocyclopentadiene	ND		1900	250
67-72-1	Hexachloroethane	ND		1900	240
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1900	230
78-59-1	Isophorone	ND		1900	400
91-20-3	Naphthalene	ND		1900	240
98-95-3	Nitrobenzene	ND		1900	210
621-64-7	N-Nitrosodi-n-propylamine	ND		1900	320
86-30-6	N-Nitrosodiphenylamine	ND		1900	1500
87-86-5	Pentachlorophenol	ND		3600	1900
85-01-8	Phenanthrene	ND		1900	280
108-95-2	Phenol	ND		1900	290
129-00-0	Pyrene	400	J	1900	220

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 Lab Sample ID: 480-179270-1

Matrix: Solid Lab File ID: V3148756.D

Analysis Method: 8270D Date Collected: 12/07/2020 14:00

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.14(g) Date Analyzed: 12/16/2020 19:48

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 9.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 12 TIC Result Total: 60000

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
37680-65-2	1,1'-Biphenyl, 2,2',5-trichloro-	10.98	2100	T J N	93%
38444-90-5	1,1'-Biphenyl, 3,4,4'-Trichloro-	11.38	4300	T J N	95%
38444-84-7	1,1'-Biphenyl, 2,3,3'-trichloro-	11.45	2400	T J N	95%
	Unknown	11.52	1800	T J	
35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	11.65	4500	T J N	99%
41464-43-1	1,1'-Biphenyl, 2,3,3',4'-tetrachloro-	11.70	2000	T J N	86%
52663-58-8	1,1'-Biphenyl, 2,3,4',6-tetrachloro-	11.80	3900	T J N	95%
32598-13-3	1,1'-Biphenyl, 3,3',4,4'-tetrachloro-	11.90	2400	T J N	94%
32598-12-2	1,1'-Biphenyl, 2,4,4',6-tetrachloro-	12.07	2000	T J N	91%
15968-05-5	1,1'-Biphenyl, 2,2',6,6'-tetrachloro-	12.10	3600	T J N	97%
36728-72-0	28-Nor-17.beta.(H)-hopane	15.08	16000	T J N	90%
	Unknown	15.35	15000	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 | Lab Sample ID: 480-179270-3

Matrix: Solid | Lab File ID: V3148757.D

Analysis Method: 8270D | Date Collected: 12/08/2020 10:10

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.29(g) | Date Analyzed: 12/16/2020 20:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		210	56
88-06-2	2,4,6-Trichlorophenol	ND		210	41
120-83-2	2,4-Dichlorophenol	ND		210	22
105-67-9	2,4-Dimethylphenol	ND		210	50
51-28-5	2,4-Dinitrophenol	ND		2000	950
121-14-2	2,4-Dinitrotoluene	ND		210	43
606-20-2	2,6-Dinitrotoluene	ND		210	24
91-58-7	2-Chloronaphthalene	ND		210	34
95-57-8	2-Chlorophenol	ND		400	38
91-57-6	2-Methylnaphthalene	51	J	210	41
95-48-7	2-Methylphenol	ND		210	24
88-74-4	2-Nitroaniline	ND		400	30
88-75-5	2-Nitrophenol	ND		210	58
91-94-1	3,3'-Dichlorobenzidine	ND		400	240
99-09-2	3-Nitroaniline	ND		400	57
534-52-1	4,6-Dinitro-2-methylphenol	ND		400	210
101-55-3	4-Bromophenyl phenyl ether	ND		210	29
59-50-7	4-Chloro-3-methylphenol	ND		210	51
106-47-8	4-Chloroaniline	ND		210	51
7005-72-3	4-Chlorophenyl phenyl ether	ND		210	26
106-44-5	4-Methylphenol	ND		400	24
100-01-6	4-Nitroaniline	ND		400	110
100-02-7	4-Nitrophenol	ND		400	140
83-32-9	Acenaphthene	1200	J	210	30
208-96-8	Acenaphthylene	30	J	210	27
98-86-2	Acetophenone	ND		210	28
120-12-7	Anthracene	1700	J	210	51
1912-24-9	Atrazine	ND		210	72
100-52-7	Benzaldehyde	ND		210	160
* 56-55-3	*Benzo(a)anthracene*	*6600*	*E*	*210*	*21*
* 50-32-8	*Benzo(a)pyrene*	*7200*	*E*	*210*	*30*
* 205-99-2	*Benzo(b)fluoranthene*	*8200*	*E*	*210*	*33*
191-24-2	Benzo(g,h,i)perylene	4100	J	210	22
207-08-9	Benzo(k)fluoranthene	3500	J	210	27

* Report result from 5x dilution

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Matrix: Solid Lab File ID: V3148757.D

Analysis Method: 8270D Date Collected: 12/08/2020 10:10

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.29(g) Date Analyzed: 12/16/2020 20:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

	CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
	92-52-4	Biphenyl	ND		210	30
	108-60-1	bis (2-chloroisopropyl) ether	ND		210	41
	111-91-1	Bis(2-chloroethoxy)methane	ND		210	44
	111-44-4	Bis(2-chloroethyl)ether	ND		210	27
	117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	71
	85-68-7	Butyl benzyl phthalate	ND		210	34
	105-60-2	Caprolactam	ND		210	62
	86-74-8	Carbazole	620	J	210	24
	218-01-9	Chrysene	6200	J	210	46
	53-70-3	Dibenz(a,h)anthracene	1800	J	210	37
	132-64-9	Dibenzofuran	260	J	210	24
	84-66-2	Diethyl phthalate	ND		210	27
	131-11-3	Dimethyl phthalate	ND		210	24
	84-74-2	Di-n-butyl phthalate	37	J	210	35
	117-84-0	Di-n-octyl phthalate	ND		210	24
*	206-44-0	Fluoranthene	10000	E	210	22
	86-73-7	Fluorene	600		210	24
	118-74-1	Hexachlorobenzene	ND		210	28
	87-68-3	Hexachlorobutadiene	ND		210	30
	77-47-4	Hexachlorocyclopentadiene	ND		210	28
	67-72-1	Hexachloroethane	ND		210	27
	193-39-5	Indeno(1,2,3-cd)pyrene	4100	J	210	26
	78-59-1	Isophorone	ND		210	44
	91-20-3	Naphthalene	110	J	210	27
	98-95-3	Nitrobenzene	ND		210	23
	621-64-7	N-Nitrosodi-n-propylamine	ND		210	35
	86-30-6	N-Nitrosodiphenylamine	ND		210	170
	87-86-5	Pentachlorophenol	ND		400	210
	85-01-8	Phenanthrene	6000	J	210	30
	108-95-2	Phenol	ND		210	32
*	129-00-0	Pyrene	9000	E	210	24

* Report result from 5x dilution

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Matrix: Solid Lab File ID: V3148757.D

Analysis Method: 8270D Date Collected: 12/08/2020 10:10

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.29(g) Date Analyzed: 12/16/2020 20:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 19 TIC Result Total: 23130

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.05	1500	T J	
832-69-9	Phenanthrene, 1-methyl-	11.52	580	T J N	98%
35465-71-5	2-Phenylnaphthalene	11.80	570	T J N	89%
84-65-1	9,10-Anthracenedione	11.82	550	T J N	93%
5737-13-3	Cyclopenta(def)phenanthrenone	12.11	660	T J N	91%
1090-13-7	5,12-Naphthacenedione	14.02	930	T J N	93%
	Unknown	14.17	900	T J	
192-97-2	Benzo[e]pyrene	14.38	1300	T J N	90%
	Unknown	14.49	760	T J	
198-55-0	Perylene	14.53	5100	T J N	95%
226-88-0	Benzo[a]naphthacene	15.45	1100	T J N	94%
191-26-4	Dibenzo[def,mno]chrysene	15.48	980	T J N	93%
	Unknown	15.68	1200	T J	
	Unknown	15.72	700	T J	
	Unknown	15.94	800	T J	
1000213-60-7	N-[4-Amino-3-nitrophenyl]-N-nitroso-4-chlorobenzylamine	16.01	1700	T J N	95%
191-30-0	1,2:3,4-Dibenzopyrene	17.17	1700	T J N	96%
192-65-4	1,2:4,5-Dibenzopyrene	17.28	1000	T J N	94%
	Unknown	17.89	1100	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 DL | Lab Sample ID: 480-179270-3 DL

Matrix: Solid | Lab File ID: V3148783.D

Analysis Method: 8270D | Date Collected: 12/08/2020 10:10

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.29(g) | Date Analyzed: 12/17/2020 17:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563701 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1000	280
88-06-2	2,4,6-Trichlorophenol	ND		1000	210
120-83-2	2,4-Dichlorophenol	ND		1000	110
105-67-9	2,4-Dimethylphenol	ND		1000	250
51-28-5	2,4-Dinitrophenol	ND		10000	4800
121-14-2	2,4-Dinitrotoluene	ND		1000	210
606-20-2	2,6-Dinitrotoluene	ND		1000	120
91-58-7	2-Chloronaphthalene	ND		1000	170
95-57-8	2-Chlorophenol	ND		2000	190
91-57-6	2-Methylnaphthalene	ND		1000	210
95-48-7	2-Methylphenol	ND		1000	120
88-74-4	2-Nitroaniline	ND		2000	150
88-75-5	2-Nitrophenol	ND		1000	290
91-94-1	3,3'-Dichlorobenzidine	ND		2000	1200
99-09-2	3-Nitroaniline	ND		2000	290
534-52-1	4,6-Dinitro-2-methylphenol	ND		2000	1000
101-55-3	4-Bromophenyl phenyl ether	ND		1000	150
59-50-7	4-Chloro-3-methylphenol	ND		1000	260
106-47-8	4-Chloroaniline	ND		1000	260
7005-72-3	4-Chlorophenyl phenyl ether	ND		1000	130
106-44-5	4-Methylphenol	ND		2000	120
100-01-6	4-Nitroaniline	ND		2000	540
100-02-7	4-Nitrophenol	ND		2000	720
83-32-9	Acenaphthene	1200		1000	150
208-96-8	Acenaphthylene	ND		1000	130
98-86-2	Acetophenone	ND		1000	140
120-12-7	Anthracene	1600		1000	260
1912-24-9	Atrazine	ND		1000	360
100-52-7	Benzaldehyde	ND		1000	820
56-55-3	Benzo(a)anthracene	6900	J	1000	100
50-32-8	Benzo(a)pyrene	8000	J	1000	150
205-99-2	Benzo(b)fluoranthene	9300	J	1000	160
191-24-2	Benzo(g,h,i)perylene	4400		1000	110
207-08-9	Benzo(k)fluoranthene	4700		1000	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 DL Lab Sample ID: 480-179270-3 DL

Matrix: Solid Lab File ID: V3148783.D

Analysis Method: 8270D Date Collected: 12/08/2020 10:10

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.29(g) Date Analyzed: 12/17/2020 17:16

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563701 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1000	150
108-60-1	bis (2-chloroisopropyl) ether	ND		1000	210
111-91-1	Bis(2-chloroethoxy)methane	ND		1000	220
111-44-4	Bis(2-chloroethyl)ether	ND		1000	130
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1000	350
85-68-7	Butyl benzyl phthalate	ND		1000	170
105-60-2	Caprolactam	ND		1000	310
86-74-8	Carbazole	540	J	1000	120
218-01-9	Chrysene	6900		1000	230
53-70-3	Dibenz(a,h)anthracene	1100		1000	180
132-64-9	Dibenzofuran	250	J	1000	120
84-66-2	Diethyl phthalate	ND		1000	130
131-11-3	Dimethyl phthalate	ND		1000	120
84-74-2	Di-n-butyl phthalate	ND		1000	180
117-84-0	Di-n-octyl phthalate	ND		1000	120
206-44-0	Fluoranthene	15000	J	1000	110
86-73-7	Fluorene	520	J	1000	120
118-74-1	Hexachlorobenzene	ND		1000	140
87-68-3	Hexachlorobutadiene	ND		1000	150
77-47-4	Hexachlorocyclopentadiene	ND		1000	140
67-72-1	Hexachloroethane	ND		1000	130
193-39-5	Indeno(1,2,3-cd)pyrene	4100		1000	130
78-59-1	Isophorone	ND		1000	220
91-20-3	Naphthalene	ND		1000	130
98-95-3	Nitrobenzene	ND		1000	120
621-64-7	N-Nitrosodi-n-propylamine	ND		1000	180
86-30-6	N-Nitrosodiphenylamine	ND		1000	840
87-86-5	Pentachlorophenol	ND		2000	1000
85-01-8	Phenanthrene	6500		1000	150
108-95-2	Phenol	ND		1000	160
129-00-0	Pyrene	13000	J	1000	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 DL | Lab Sample ID: 480-179270-3 DL

Matrix: Solid | Lab File ID: V3148783.D

Analysis Method: 8270D | Date Collected: 12/08/2020 10:10

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.29(g) | Date Analyzed: 12/17/2020 17:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563701 | Units: ug/Kg

Number TICs Found: 19 | TIC Result Total: 30750

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.06	1900	T J	
~~75-09-2~~	~~Methylene Chloride~~	~~2.12~~	~~1600~~	~~T J N~~	~~91%~~
832-69-9	Phenanthrene, 1-methyl-	11.54	840	T J N	91%
	Unknown	11.62	1500	T J	
243-17-4	11H-Benzo[b]fluorene	12.67	1000	T J N	94%
	Unknown	13.24	820	T J	
	Unknown	13.50	860	T J	
1090-13-7	5,12-Naphthacenedione	14.02	860	T J N	86%
192-97-2	Benzo[e]pyrene	14.37	1300	T J N	91%
198-55-0	Perylene	14.51	5200	T J N	90%
	Unknown	15.44	1100	T J	
	Unknown	15.67	1300	T J	
191-26-4	Dibenzo[def,mno]chrysene	15.99	2000	T J N	90%
	Unknown	16.39	990	T J	
5385-75-1	Dibenz(a,e)aceanthrylene	17.16	2900	T J N	94%
191-30-0	1,2:3,4-Dibenzopyrene	17.27	1800	T J N	94%
	Unknown	17.81	1300	T J	
	Unknown	17.86	2600	T J	
189-64-0	3,4:8,9-Dibenzopyrene	17.96	880	T J N	87%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Matrix: Solid Lab File ID: V3148758.D

Analysis Method: 8270D Date Collected: 12/08/2020 10:15

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.57(g) Date Analyzed: 12/16/2020 20:37

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 21.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		210	57
88-06-2	2,4,6-Trichlorophenol	ND		210	42
120-83-2	2,4-Dichlorophenol	ND		210	22
105-67-9	2,4-Dimethylphenol	ND		210	51
51-28-5	2,4-Dinitrophenol	ND		2100	980
121-14-2	2,4-Dinitrotoluene	ND		210	44
606-20-2	2,6-Dinitrotoluene	ND		210	25
91-58-7	2-Chloronaphthalene	ND		210	35
95-57-8	2-Chlorophenol	ND		410	39
91-57-6	2-Methylnaphthalene	ND		210	42
95-48-7	2-Methylphenol	ND		210	25
88-74-4	2-Nitroaniline	ND		410	31
88-75-5	2-Nitrophenol	ND		210	60
91-94-1	3,3'-Dichlorobenzidine	ND		410	250
99-09-2	3-Nitroaniline	ND		410	59
534-52-1	4,6-Dinitro-2-methylphenol	ND		410	210
101-55-3	4-Bromophenyl phenyl ether	ND		210	30
59-50-7	4-Chloro-3-methylphenol	ND		210	52
106-47-8	4-Chloroaniline	ND		210	52
7005-72-3	4-Chlorophenyl phenyl ether	ND		210	26
106-44-5	4-Methylphenol	ND		410	25
100-01-6	4-Nitroaniline	ND		410	110
100-02-7	4-Nitrophenol	ND		410	150
83-32-9	Acenaphthene	ND	J	210	31
208-96-8	Acenaphthylene	ND		210	27
98-86-2	Acetophenone	ND		210	29
120-12-7	Anthracene	ND	J	210	52
1912-24-9	Atrazine	ND		210	74
100-52-7	Benzaldehyde	ND		210	170
56-55-3	Benzo(a)anthracene	ND	J	210	21
50-32-8	Benzo(a)pyrene	ND	J	210	31
205-99-2	Benzo(b)fluoranthene	ND	J	210	34
191-24-2	Benzo(g,h,i)perylene	ND	J	210	22
207-08-9	Benzo(k)fluoranthene	ND	J	210	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Matrix: Solid Lab File ID: V3148758.D

Analysis Method: 8270D Date Collected: 12/08/2020 10:15

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.57(g) Date Analyzed: 12/16/2020 20:37

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 21.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		210	31
108-60-1	bis (2-chloroisopropyl) ether	ND		210	42
111-91-1	Bis(2-chloroethoxy)methane	ND		210	45
111-44-4	Bis(2-chloroethyl)ether	ND		210	27
117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	72
85-68-7	Butyl benzyl phthalate	ND		210	35
105-60-2	Caprolactam	ND		210	64
86-74-8	Carbazole	ND	J	210	25
218-01-9	Chrysene	ND	J	210	47
53-70-3	Dibenz(a,h)anthracene	ND	J	210	37
132-64-9	Dibenzofuran	ND	J	210	25
84-66-2	Diethyl phthalate	ND		210	27
131-11-3	Dimethyl phthalate	ND		210	25
84-74-2	Di-n-butyl phthalate	ND		210	36
117-84-0	Di-n-octyl phthalate	ND		210	25
206-44-0	Fluoranthene	ND	J	210	22
86-73-7	Fluorene	ND	J	210	25
118-74-1	Hexachlorobenzene	ND		210	29
87-68-3	Hexachlorobutadiene	ND		210	31
77-47-4	Hexachlorocyclopentadiene	ND		210	29
67-72-1	Hexachloroethane	ND		210	27
193-39-5	Indeno(1,2,3-cd)pyrene	ND	J	210	26
78-59-1	Isophorone	ND		210	45
91-20-3	Naphthalene	ND		210	27
98-95-3	Nitrobenzene	ND		210	24
621-64-7	N-Nitrosodi-n-propylamine	ND		210	36
86-30-6	N-Nitrosodiphenylamine	ND		210	170
87-86-5	Pentachlorophenol	ND		410	210
85-01-8	Phenanthrene	ND	J	210	31
108-95-2	Phenol	ND		210	32
129-00-0	Pyrene	ND	J	210	25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Matrix: Solid Lab File ID: V3148758.D

Analysis Method: 8270D Date Collected: 12/08/2020 10:15

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.57(g) Date Analyzed: 12/16/2020 20:37

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 21.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 20 TIC Result Total: 32790

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.06	1300	T J	
15968-05-5	1,1'-Biphenyl, 2,2',6,6'-tetrachloro-	11.70	1200	T J N	98%
32598-13-3	1,1'-Biphenyl, 3,3',4,4'-tetrachloro-	11.83	940	T J N	96%
33284-52-5	1,1'-Biphenyl, 3,3',5,5'-tetrachloro-	11.90	1800	T J N	99%
33284-54-7	1,1'-Biphenyl, 2,3,5,6-tetrachloro-	12.07	940	T J N	96%
41464-43-1	1,1'-Biphenyl, 2,3,3',4'-tetrachloro-	12.12	3200	T J N	98%
41464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrachloro-	12.24	2200	T J N	98%
52663-61-3	1,1'-Biphenyl, 2,2',3,5,5'-pentachloro-	12.28	1300	T J N	96%
	Unknown	13.73	1100	T J	
	Unknown	13.77	1500	T J	
	Unknown	14.06	2900	T J	
4175-54-6	Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl-	14.12	1600	T J N	90%
	Unknown	14.22	2300	T J	
	Unknown	14.38	1300	T J	
	Unknown	14.40	1500	T J	
	Unknown	14.48	3600	T J	
	Unknown	14.58	890	T J	
	Unknown	14.65	1300	T J	
	Unknown	14.86	1000	T J	
	Unknown	14.92	920	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 | Lab Sample ID: 480-179270-6

Matrix: Solid | Lab File ID: V3148754.D

Analysis Method: 8270D | Date Collected: 12/08/2020 12:05

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.36(g) | Date Analyzed: 12/16/2020 18:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1000	270
88-06-2	2,4,6-Trichlorophenol	ND		1000	200
120-83-2	2,4-Dichlorophenol	ND		1000	110
105-67-9	2,4-Dimethylphenol	ND		1000	240
51-28-5	2,4-Dinitrophenol	ND		9800	4600
121-14-2	2,4-Dinitrotoluene	ND		1000	210
606-20-2	2,6-Dinitrotoluene	ND		1000	120
91-58-7	2-Chloronaphthalene	ND		1000	170
95-57-8	2-Chlorophenol	ND		2000	180
91-57-6	2-Methylnaphthalene	ND		1000	200
95-48-7	2-Methylphenol	ND		1000	120
88-74-4	2-Nitroaniline	ND		2000	150
88-75-5	2-Nitrophenol	ND		1000	280
91-94-1	3,3'-Dichlorobenzidine	ND		2000	1200
99-09-2	3-Nitroaniline	ND		2000	280
534-52-1	4,6-Dinitro-2-methylphenol	ND		2000	1000
101-55-3	4-Bromophenyl phenyl ether	ND		1000	140
59-50-7	4-Chloro-3-methylphenol	ND		1000	250
106-47-8	4-Chloroaniline	ND		1000	250
7005-72-3	4-Chlorophenyl phenyl ether	ND		1000	120
106-44-5	4-Methylphenol	ND		2000	120
100-01-6	4-Nitroaniline	ND		2000	530
100-02-7	4-Nitrophenol	ND		2000	700
83-32-9	Acenaphthene	ND		1000	150
208-96-8	Acenaphthylene	ND		1000	130
98-86-2	Acetophenone	ND		1000	140
120-12-7	Anthracene	ND		1000	250
1912-24-9	Atrazine	ND		1000	350
100-52-7	Benzaldehyde	ND		1000	800
56-55-3	Benzo(a)anthracene	ND		1000	100
50-32-8	Benzo(a)pyrene	ND		1000	150
205-99-2	Benzo(b)fluoranthene	ND		1000	160
191-24-2	Benzo(g,h,i)perylene	ND		1000	110
207-08-9	Benzo(k)fluoranthene	ND		1000	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Matrix: Solid Lab File ID: V3148754.D

Analysis Method: 8270D Date Collected: 12/08/2020 12:05

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.36(g) Date Analyzed: 12/16/2020 18:59

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 16.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1000	150
108-60-1	bis (2-chloroisopropyl) ether	ND		1000	200
111-91-1	Bis(2-chloroethoxy)methane	ND		1000	210
111-44-4	Bis(2-chloroethyl)ether	ND		1000	130
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1000	340
85-68-7	Butyl benzyl phthalate	ND		1000	170
105-60-2	Caprolactam	ND		1000	300
86-74-8	Carbazole	ND		1000	120
218-01-9	Chrysene	ND		1000	220
53-70-3	Dibenz(a,h)anthracene	ND		1000	180
132-64-9	Dibenzofuran	ND		1000	120
84-66-2	Diethyl phthalate	ND		1000	130
131-11-3	Dimethyl phthalate	ND		1000	120
84-74-2	Di-n-butyl phthalate	ND		1000	170
117-84-0	Di-n-octyl phthalate	ND		1000	120
206-44-0	Fluoranthene	ND		1000	110
86-73-7	Fluorene	ND		1000	120
118-74-1	Hexachlorobenzene	ND		1000	140
87-68-3	Hexachlorobutadiene	ND		1000	150
77-47-4	Hexachlorocyclopentadiene	ND		1000	140
67-72-1	Hexachloroethane	ND		1000	130
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1000	120
78-59-1	Isophorone	ND		1000	210
91-20-3	Naphthalene	ND		1000	130
98-95-3	Nitrobenzene	ND		1000	110
621-64-7	N-Nitrosodi-n-propylamine	ND		1000	170
86-30-6	N-Nitrosodiphenylamine	ND		1000	820
87-86-5	Pentachlorophenol	ND		2000	1000
85-01-8	Phenanthrene	ND		1000	150
108-95-2	Phenol	ND		1000	150
129-00-0	Pyrene	ND		1000	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Matrix: Solid Lab File ID: V3148754.D

Analysis Method: 8270D Date Collected: 12/08/2020 12:05

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.36(g) Date Analyzed: 12/16/2020 18:59

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 16.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 20 TIC Result Total: 195700

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
38444-86-9	1,1'-Biphenyl, 2',3,4-trichloro-	11.14	5700	T J N	99%
7012-37-5	1,1'-Biphenyl, 2,4,4'-trichloro-	11.38	8000	T J N	99%
32598-13-3	1,1'-Biphenyl, 3,3',4,4'-tetrachloro-	11.65	17000	T J N	99%
41464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrachloro-	11.80	16000	T J N	99%
33284-52-5	1,1'-Biphenyl, 3,3',5,5'-tetrachloro-	11.83	5500	T J N	94%
41464-49-7	1,1'-Biphenyl, 2,3,3',5'-tetrachloro-	11.90	11000	T J N	99%
41464-40-8	1,1'-Biphenyl, 2,2',4,5'-tetrachloro-	12.07	6400	T J N	99%
52663-58-8	1,1'-Biphenyl, 2,3,4',6-tetrachloro-	12.10	7800	T J N	99%
32598-11-1	1,1'-Biphenyl, 2,3',4',5-tetrachloro-	12.12	18000	T J N	99%
39485-83-1	1,1'-Biphenyl, 2,2',4,4',6-Pentachloro-	12.28	7100	T J N	98%
18259-05-7	1,1'-Biphenyl, 2,3,4,5,6-pentachloro-	12.53	5800	T J N	96%
	Unknown	14.06	9700	T J	
	Unknown	14.12	5400	T J	
21564-91-0	Naphthalene, 1,2,3,4-tetrahydro-1,5-dimethyl-	14.22	14000	T J N	89%
	Unknown	14.38	7100	T J	
	Unknown	14.40	8000	T J	
	Unknown	14.48	24000	T J	
	Unknown	14.58	6000	T J	
	Unknown	14.65	7000	T J	
	Unknown	14.86	6200	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 | Lab Sample ID: 480-179270-7

Matrix: Solid | Lab File ID: V3148759.D

Analysis Method: 8270D | Date Collected: 12/08/2020 13:20

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.01(g) | Date Analyzed: 12/16/2020 21:02

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		2000	540
88-06-2	2,4,6-Trichlorophenol	ND		2000	400
120-83-2	2,4-Dichlorophenol	ND		2000	210
105-67-9	2,4-Dimethylphenol	ND		2000	480
51-28-5	2,4-Dinitrophenol	ND		19000	9200
121-14-2	2,4-Dinitrotoluene	ND		2000	410
606-20-2	2,6-Dinitrotoluene	ND		2000	230
91-58-7	2-Chloronaphthalene	ND		2000	330
95-57-8	2-Chlorophenol	ND		3900	360
91-57-6	2-Methylnaphthalene	ND		2000	400
95-48-7	2-Methylphenol	ND		2000	230
88-74-4	2-Nitroaniline	ND		3900	290
88-75-5	2-Nitrophenol	ND		2000	560
91-94-1	3,3'-Dichlorobenzidine	ND		3900	2300
99-09-2	3-Nitroaniline	ND		3900	550
534-52-1	4,6-Dinitro-2-methylphenol	ND		3900	2000
101-55-3	4-Bromophenyl phenyl ether	ND		2000	280
59-50-7	4-Chloro-3-methylphenol	ND		2000	490
106-47-8	4-Chloroaniline	ND		2000	490
7005-72-3	4-Chlorophenyl phenyl ether	ND		2000	250
106-44-5	4-Methylphenol	ND		3900	230
100-01-6	4-Nitroaniline	ND		3900	1000
100-02-7	4-Nitrophenol	ND		3900	1400
83-32-9	Acenaphthene	ND		2000	290
208-96-8	Acenaphthylene	ND		2000	260
98-86-2	Acetophenone	ND		2000	270
120-12-7	Anthracene	ND		2000	490
1912-24-9	Atrazine	ND		2000	690
100-52-7	Benzaldehyde	ND		2000	1600
56-55-3	Benzo(a)anthracene	ND		2000	200
50-32-8	Benzo(a)pyrene	ND		2000	290
205-99-2	Benzo(b)fluoranthene	ND		2000	320
191-24-2	Benzo(g,h,i)perylene	ND		2000	210
207-08-9	Benzo(k)fluoranthene	ND		2000	260

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 | Lab Sample ID: 480-179270-7

Matrix: Solid | Lab File ID: V3148759.D

Analysis Method: 8270D | Date Collected: 12/08/2020 13:20

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.01(g) | Date Analyzed: 12/16/2020 21:02

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2000	290
108-60-1	bis (2-chloroisopropyl) ether	ND		2000	400
111-91-1	Bis(2-chloroethoxy)methane	ND		2000	420
111-44-4	Bis(2-chloroethyl)ether	ND		2000	260
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2000	680
85-68-7	Butyl benzyl phthalate	ND		2000	330
105-60-2	Caprolactam	ND		2000	600
86-74-8	Carbazole	ND		2000	230
218-01-9	Chrysene	ND		2000	450
53-70-3	Dibenz(a,h)anthracene	ND		2000	350
132-64-9	Dibenzofuran	ND		2000	230
84-66-2	Diethyl phthalate	ND		2000	260
131-11-3	Dimethyl phthalate	ND		2000	230
84-74-2	Di-n-butyl phthalate	ND		2000	340
117-84-0	Di-n-octyl phthalate	ND		2000	230
206-44-0	Fluoranthene	ND		2000	210
86-73-7	Fluorene	ND		2000	230
118-74-1	Hexachlorobenzene	ND		2000	270
87-68-3	Hexachlorobutadiene	ND		2000	290
77-47-4	Hexachlorocyclopentadiene	ND		2000	270
67-72-1	Hexachloroethane	ND		2000	260
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2000	250
78-59-1	Isophorone	ND		2000	420
91-20-3	Naphthalene	ND		2000	260
98-95-3	Nitrobenzene	ND		2000	220
621-64-7	N-Nitrosodi-n-propylamine	ND		2000	340
86-30-6	N-Nitrosodiphenylamine	ND		2000	1600
87-86-5	Pentachlorophenol	ND		3900	2000
85-01-8	Phenanthrene	ND		2000	290
108-95-2	Phenol	ND		2000	300
129-00-0	Pyrene	ND		2000	230

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 Lab Sample ID: 480-179270-7

Matrix: Solid Lab File ID: V3148759.D

Analysis Method: 8270D Date Collected: 12/08/2020 13:20

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.01(g) Date Analyzed: 12/16/2020 21:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 14.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 22500

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	7.24	1700	T J	
	Unknown	9.35	2300	T J	
	Unknown	10.79	2100	T J	
	Unknown	15.08	7400	T J	
	Unknown	15.35	9000	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 | Lab Sample ID: 480-179270-8

Matrix: Solid | Lab File ID: V3148760.D

Analysis Method: 8270D | Date Collected: 12/09/2020 09:45

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.69(g) | Date Analyzed: 12/16/2020 21:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		2100	570
88-06-2	2,4,6-Trichlorophenol	ND		2100	420
120-83-2	2,4-Dichlorophenol	ND		2100	220
105-67-9	2,4-Dimethylphenol	ND		2100	510
51-28-5	2,4-Dinitrophenol	ND		21000	9800
121-14-2	2,4-Dinitrotoluene	ND		2100	440
606-20-2	2,6-Dinitrotoluene	ND		2100	250
91-58-7	2-Chloronaphthalene	ND		2100	350
95-57-8	2-Chlorophenol	ND		4100	390
91-57-6	2-Methylnaphthalene	700	J	2100	420
95-48-7	2-Methylphenol	ND		2100	250
88-74-4	2-Nitroaniline	ND		4100	310
88-75-5	2-Nitrophenol	ND		2100	600
91-94-1	3,3'-Dichlorobenzidine	ND		4100	2500
99-09-2	3-Nitroaniline	ND		4100	590
534-52-1	4,6-Dinitro-2-methylphenol	ND		4100	2100
101-55-3	4-Bromophenyl phenyl ether	ND		2100	300
59-50-7	4-Chloro-3-methylphenol	ND		2100	520
106-47-8	4-Chloroaniline	ND		2100	520
7005-72-3	4-Chlorophenyl phenyl ether	ND		2100	260
106-44-5	4-Methylphenol	ND		4100	250
100-01-6	4-Nitroaniline	ND		4100	1100
100-02-7	4-Nitrophenol	ND		4100	1500
83-32-9	Acenaphthene	2900		2100	310
208-96-8	Acenaphthylene	ND		2100	270
98-86-2	Acetophenone	ND		2100	290
120-12-7	Anthracene	5600		2100	520
1912-24-9	Atrazine	ND		2100	740
100-52-7	Benzaldehyde	ND		2100	1700
56-55-3	Benzo(a)anthracene	13000		2100	210
50-32-8	Benzo(a)pyrene	11000		2100	310
205-99-2	Benzo(b)fluoranthene	14000		2100	340
191-24-2	Benzo(g,h,i)perylene	4900		2100	220
207-08-9	Benzo(k)fluoranthene	6800		2100	270

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 | Lab Sample ID: 480-179270-8

Matrix: Solid | Lab File ID: V3148760.D

Analysis Method: 8270D | Date Collected: 12/09/2020 09:45

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.69(g) | Date Analyzed: 12/16/2020 21:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2100	310
108-60-1	bis (2-chloroisopropyl) ether	ND		2100	420
111-91-1	Bis(2-chloroethoxy)methane	ND		2100	450
111-44-4	Bis(2-chloroethyl)ether	ND		2100	270
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2100	720
85-68-7	Butyl benzyl phthalate	ND		2100	350
105-60-2	Caprolactam	ND		2100	640
86-74-8	Carbazole	2700		2100	250
218-01-9	Chrysene	13000		2100	470
53-70-3	Dibenz(a,h)anthracene	1700	J	2100	370
132-64-9	Dibenzofuran	1800	J	2100	250
84-66-2	Diethyl phthalate	ND		2100	270
131-11-3	Dimethyl phthalate	ND		2100	250
84-74-2	Di-n-butyl phthalate	ND		2100	360
117-84-0	Di-n-octyl phthalate	ND		2100	250
206-44-0	Fluoranthene	29000		2100	220
86-73-7	Fluorene	2700		2100	250
118-74-1	Hexachlorobenzene	ND		2100	290
87-68-3	Hexachlorobutadiene	ND		2100	310
77-47-4	Hexachlorocyclopentadiene	ND		2100	290
67-72-1	Hexachloroethane	ND		2100	270
193-39-5	Indeno(1,2,3-cd)pyrene	4500		2100	260
78-59-1	Isophorone	ND		2100	450
91-20-3	Naphthalene	1000	J	2100	270
98-95-3	Nitrobenzene	ND		2100	240
621-64-7	N-Nitrosodi-n-propylamine	ND		2100	360
86-30-6	N-Nitrosodiphenylamine	ND		2100	1700
87-86-5	Pentachlorophenol	ND		4100	2100
85-01-8	Phenanthrene	25000		2100	310
108-95-2	Phenol	ND		2100	320
129-00-0	Pyrene	21000		2100	250

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 | Lab Sample ID: 480-179270-8

Matrix: Solid | Lab File ID: V3148760.D

Analysis Method: 8270D | Date Collected: 12/09/2020 09:45

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.69(g) | Date Analyzed: 12/16/2020 21:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

Number TICs Found: 19 | TIC Result Total: 75100

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.06	2900	T J	
	Unknown	3.57	2200	T J	
	Unknown	9.71	2200	T J	
486-25-9	9H-Fluoren-9-one	10.83	2000	T J N	90%
132-65-0	Dibenzothiophene	10.92	1900	T J N	90%
35507-09-6	7-Hexadecene, (Z)-	11.37	7500	T J N	97%
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	11.52	2700	T J N	94%
832-69-9	Phenanthrene, 1-methyl-	11.55	4000	T J N	93%
	Unknown	11.62	5200	T J	
779-02-2	Anthracene, 9-methyl-	11.65	2600	T J N	87%
	Unknown	11.81	2700	T J	
84-65-1	9,10-Anthracenedione	11.82	2900	T J N	94%
	Unknown	12.12	6500	T J	
	Unknown	12.22	1900	T J	
243-17-4	11H-Benzo[b]fluorene	12.67	1700	T J N	93%
	Unknown	13.87	3000	T J	
198-55-0	Perylene	14.52	9000	T J N	92%
	Unknown	15.08	7600	T J	
	Unknown	15.35	6600	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Matrix: Solid (TCLP) Lab File ID: X21471988.D

Analysis Method: 8270D Date Collected: 12/09/2020 09:45

Extract. Method: 3510C Date Extracted: 12/15/2020 15:06

Sample wt/vol: 250(mL) Date Analyzed: 12/17/2020 12:57

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563632 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.040	0.0018
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0017
118-74-1	Hexachlorobenzene	ND		0.020	0.0020
87-68-3	Hexachlorobutadiene	ND		0.020	0.0027
67-72-1	Hexachloroethane	ND		0.020	0.0023
108-39-4	3-Methylphenol	ND		0.040	0.0016
95-48-7	2-Methylphenol	ND		0.020	0.0016
106-44-5	4-Methylphenol	ND		0.040	0.0014
98-95-3	Nitrobenzene	ND		0.020	0.0011
87-86-5	Pentachlorophenol	ND		0.040	0.0088
110-86-1	Pyridine	ND		0.10	0.0016
95-95-4	2,4,5-Trichlorophenol	ND		0.020	0.0019
88-06-2	2,4,6-Trichlorophenol	ND		0.020	0.0024

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	105		41-120
321-60-8	2-Fluorobiphenyl	102		48-120
367-12-4	2-Fluorophenol	55		35-120
4165-60-0	Nitrobenzene-d5	103		46-120
1718-51-0	p-Terphenyl-d14	101		60-148
4165-62-2	Phenol-d5	36		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 | Lab Sample ID: 480-179270-9

Matrix: Solid | Lab File ID: V3148761.D

Analysis Method: 8270D | Date Collected: 12/09/2020 12:20

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.34(g) | Date Analyzed: 12/16/2020 21:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		190	52
88-06-2	2,4,6-Trichlorophenol	ND		190	39
120-83-2	2,4-Dichlorophenol	ND		190	21
105-67-9	2,4-Dimethylphenol	ND		190	47
51-28-5	2,4-Dinitrophenol	ND		1900	890
121-14-2	2,4-Dinitrotoluene	ND		190	40
606-20-2	2,6-Dinitrotoluene	ND		190	23
91-58-7	2-Chloronaphthalene	ND		190	32
95-57-8	2-Chlorophenol	ND		380	35
91-57-6	2-Methylnaphthalene	ND		190	39
95-48-7	2-Methylphenol	ND		190	23
88-74-4	2-Nitroaniline	ND		380	29
88-75-5	2-Nitrophenol	ND		190	55
91-94-1	3,3'-Dichlorobenzidine	ND		380	230
99-09-2	3-Nitroaniline	ND		380	54
534-52-1	4,6-Dinitro-2-methylphenol	ND		380	190
101-55-3	4-Bromophenyl phenyl ether	ND		190	27
59-50-7	4-Chloro-3-methylphenol	ND		190	48
106-47-8	4-Chloroaniline	ND		190	48
7005-72-3	4-Chlorophenyl phenyl ether	ND		190	24
106-44-5	4-Methylphenol	ND		380	23
100-01-6	4-Nitroaniline	ND		380	100
100-02-7	4-Nitrophenol	ND		380	140
83-32-9	Acenaphthene	ND		190	29
208-96-8	Acenaphthylene	ND		190	25
98-86-2	Acetophenone	ND		190	26
120-12-7	Anthracene	74	J	190	48
1912-24-9	Atrazine	ND		190	67
100-52-7	Benzaldehyde	ND		190	150
56-55-3	Benzo(a)anthracene	150	J	190	19
50-32-8	Benzo(a)pyrene	110	J	190	29
205-99-2	Benzo(b)fluoranthene	220		190	31
191-24-2	Benzo(g,h,i)perylene	52	J	190	21
207-08-9	Benzo(k)fluoranthene	ND		190	25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid Lab File ID: V3148761.D

Analysis Method: 8270D Date Collected: 12/09/2020 12:20

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.34(g) Date Analyzed: 12/16/2020 21:50

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 13.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	280		190	29
108-60-1	bis (2-chloroisopropyl) ether	ND		190	39
111-91-1	Bis(2-chloroethoxy)methane	ND		190	41
111-44-4	Bis(2-chloroethyl)ether	ND		190	25
117-81-7	Bis(2-ethylhexyl) phthalate	ND		190	66
85-68-7	Butyl benzyl phthalate	ND		190	32
105-60-2	Caprolactam	ND		190	58
86-74-8	Carbazole	ND		190	23
218-01-9	Chrysene	140	J	190	43
53-70-3	Dibenz(a,h)anthracene	ND		190	34
132-64-9	Dibenzofuran	ND		190	23
84-66-2	Diethyl phthalate	ND		190	25
131-11-3	Dimethyl phthalate	ND		190	23
84-74-2	Di-n-butyl phthalate	ND		190	33
117-84-0	Di-n-octyl phthalate	ND		190	23
206-44-0	Fluoranthene	540		190	21
86-73-7	Fluorene	140	J	190	23
118-74-1	Hexachlorobenzene	ND		190	26
87-68-3	Hexachlorobutadiene	ND		190	29
77-47-4	Hexachlorocyclopentadiene	ND		190	26
67-72-1	Hexachloroethane	ND		190	25
193-39-5	Indeno(1,2,3-cd)pyrene	63	J	190	24
78-59-1	Isophorone	ND		190	41
91-20-3	Naphthalene	ND		190	25
98-95-3	Nitrobenzene	ND		190	22
621-64-7	N-Nitrosodi-n-propylamine	ND		190	33
86-30-6	N-Nitrosodiphenylamine	ND		190	160
87-86-5	Pentachlorophenol	ND		380	190
85-01-8	Phenanthrene	260		190	29
108-95-2	Phenol	ND		190	30
129-00-0	Pyrene	460		190	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid Lab File ID: V3148761.D

Analysis Method: 8270D Date Collected: 12/09/2020 12:20

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.34(g) Date Analyzed: 12/16/2020 21:50

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 13.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 19 TIC Result Total: 57000

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.04	1700	T J	
	Unknown	3.55	1700	T J	
	Unknown	7.91	2500	T J	
	Unknown	8.23	1900	T J	
	Unknown	8.35	1600	T J	
5617-41-4	Heptylcyclohexane	8.47	3900	T J N	89%
	Unknown	8.85	2300	T J	
	Unknown	8.87	2500	T J	
	Unknown	9.02	1800	T J	
	Unknown	9.08	1600	T J	
1795-15-9	Cyclohexane, octyl-	9.15	4000	T J N	94%
544-76-3	Hexadecane	9.18	10000	T J N	90%
	Unknown	9.20	2100	T J	
	Unknown	9.72	1800	T J	
	Unknown	9.79	2200	T J	
3892-00-0	Pentadecane, 2,6,10-trimethyl-	10.24	3600	T J N	94%
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.53	5300	T J N	98%
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.00	2900	T J N	96%
84-15-1	o-Terphenyl	11.43	3600	T J N	98%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid (TCLP) Lab File ID: X21471989.D

Analysis Method: 8270D Date Collected: 12/09/2020 12:20

Extract. Method: 3510C Date Extracted: 12/15/2020 15:06

Sample wt/vol: 250(mL) Date Analyzed: 12/17/2020 13:21

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563632 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.040	0.0018
121-14-2	2,4-Dinitrotoluene	ND		0.020	0.0017
118-74-1	Hexachlorobenzene	ND		0.020	0.0020
87-68-3	Hexachlorobutadiene	ND		0.020	0.0027
67-72-1	Hexachloroethane	ND		0.020	0.0023
108-39-4	3-Methylphenol	ND		0.040	0.0016
95-48-7	2-Methylphenol	ND		0.020	0.0016
106-44-5	4-Methylphenol	ND		0.040	0.0014
98-95-3	Nitrobenzene	ND		0.020	0.0011
87-86-5	Pentachlorophenol	ND		0.040	0.0088
110-86-1	Pyridine	ND		0.10	0.0016
95-95-4	2,4,5-Trichlorophenol	ND		0.020	0.0019
88-06-2	2,4,6-Trichlorophenol	ND		0.020	0.0024

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	90		41-120
321-60-8	2-Fluorobiphenyl	97		48-120
367-12-4	2-Fluorophenol	51		35-120
4165-60-0	Nitrobenzene-d5	96		46-120
1718-51-0	p-Terphenyl-d14	105		60-148
4165-62-2	Phenol-d5	34		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 | Lab Sample ID: 480-179270-10

Matrix: Solid | Lab File ID: V3148762.D

Analysis Method: 8270D | Date Collected: 12/09/2020 14:17

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.41(g) | Date Analyzed: 12/16/2020 22:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		220	59
88-06-2	2,4,6-Trichlorophenol	ND		220	44
120-83-2	2,4-Dichlorophenol	ND		220	23
105-67-9	2,4-Dimethylphenol	ND		220	53
51-28-5	2,4-Dinitrophenol	ND		2100	1000
121-14-2	2,4-Dinitrotoluene	ND		220	45
606-20-2	2,6-Dinitrotoluene	ND		220	26
91-58-7	2-Chloronaphthalene	ND		220	36
95-57-8	2-Chlorophenol	ND		420	40
91-57-6	2-Methylnaphthalene	ND		220	44
95-48-7	2-Methylphenol	ND		220	26
88-74-4	2-Nitroaniline	ND		420	32
88-75-5	2-Nitrophenol	ND		220	62
91-94-1	3,3'-Dichlorobenzidine	ND		420	260
99-09-2	3-Nitroaniline	ND		420	61
534-52-1	4,6-Dinitro-2-methylphenol	ND		420	220
101-55-3	4-Bromophenyl phenyl ether	ND		220	31
59-50-7	4-Chloro-3-methylphenol	ND		220	54
106-47-8	4-Chloroaniline	ND		220	54
7005-72-3	4-Chlorophenyl phenyl ether	ND		220	27
106-44-5	4-Methylphenol	ND		420	26
100-01-6	4-Nitroaniline	ND		420	110
100-02-7	4-Nitrophenol	ND		420	150
83-32-9	Acenaphthene	ND		220	32
208-96-8	Acenaphthylene	ND		220	28
98-86-2	Acetophenone	ND		220	30
120-12-7	Anthracene	ND		220	54
1912-24-9	Atrazine	ND		220	76
100-52-7	Benzaldehyde	ND		220	170
56-55-3	Benzo(a)anthracene	ND		220	22
50-32-8	Benzo(a)pyrene	ND		220	32
205-99-2	Benzo(b)fluoranthene	ND		220	35
191-24-2	Benzo(g,h,i)perylene	ND		220	23
207-08-9	Benzo(k)fluoranthene	ND		220	28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 | Lab Sample ID: 480-179270-10

Matrix: Solid | Lab File ID: V3148762.D

Analysis Method: 8270D | Date Collected: 12/09/2020 14:17

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.41(g) | Date Analyzed: 12/16/2020 22:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		220	32
108-60-1	bis (2-chloroisopropyl) ether	ND		220	44
111-91-1	Bis(2-chloroethoxy)methane	ND		220	46
111-44-4	Bis(2-chloroethyl)ether	ND		220	28
117-81-7	Bis(2-ethylhexyl) phthalate	ND		220	75
85-68-7	Butyl benzyl phthalate	ND		220	36
105-60-2	Caprolactam	ND		220	66
86-74-8	Carbazole	ND		220	26
218-01-9	Chrysene	ND		220	49
53-70-3	Dibenz(a,h)anthracene	ND		220	39
132-64-9	Dibenzofuran	ND		220	26
84-66-2	Diethyl phthalate	ND		220	28
131-11-3	Dimethyl phthalate	ND		220	26
84-74-2	Di-n-butyl phthalate	ND		220	37
117-84-0	Di-n-octyl phthalate	ND		220	26
206-44-0	Fluoranthene	24	J	220	23
86-73-7	Fluorene	ND		220	26
118-74-1	Hexachlorobenzene	ND		220	30
87-68-3	Hexachlorobutadiene	ND		220	32
77-47-4	Hexachlorocyclopentadiene	ND		220	30
67-72-1	Hexachloroethane	ND		220	28
193-39-5	Indeno(1,2,3-cd)pyrene	ND		220	27
78-59-1	Isophorone	ND		220	46
91-20-3	Naphthalene	ND		220	28
98-95-3	Nitrobenzene	ND		220	24
621-64-7	N-Nitrosodi-n-propylamine	ND		220	37
86-30-6	N-Nitrosodiphenylamine	ND		220	180
87-86-5	Pentachlorophenol	ND		420	220
85-01-8	Phenanthrene	ND		220	32
108-95-2	Phenol	ND		220	33
129-00-0	Pyrene	ND		220	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 Lab Sample ID: 480-179270-10

Matrix: Solid Lab File ID: V3148762.D

Analysis Method: 8270D Date Collected: 12/09/2020 14:17

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.41(g) Date Analyzed: 12/16/2020 22:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 23.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 5 TIC Result Total: 3510

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.05	1600	T J	
	Unknown	2.10	370	T J	
	Unknown	3.55	1100	T J	
	Unknown	4.70	220	T J	
	Unknown	13.84	220	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 | Lab Sample ID: 480-179270-11

Matrix: Solid | Lab File ID: V3148763.D

Analysis Method: 8270D | Date Collected: 12/09/2020 15:45

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.13(g) | Date Analyzed: 12/16/2020 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 31.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		250	67
88-06-2	2,4,6-Trichlorophenol	ND		250	50
120-83-2	2,4-Dichlorophenol	ND		250	26
105-67-9	2,4-Dimethylphenol	ND		250	60
51-28-5	2,4-Dinitrophenol	ND		2400	1100
121-14-2	2,4-Dinitrotoluene	ND		250	51
606-20-2	2,6-Dinitrotoluene	ND		250	29
91-58-7	2-Chloronaphthalene	ND		250	41
95-57-8	2-Chlorophenol	ND		480	45
91-57-6	2-Methylnaphthalene	ND		250	50
95-48-7	2-Methylphenol	ND		250	29
88-74-4	2-Nitroaniline	ND		480	36
88-75-5	2-Nitrophenol	ND		250	70
91-94-1	3,3'-Dichlorobenzidine	ND		480	290
99-09-2	3-Nitroaniline	ND		480	69
534-52-1	4,6-Dinitro-2-methylphenol	ND		480	250
101-55-3	4-Bromophenyl phenyl ether	ND		250	35
59-50-7	4-Chloro-3-methylphenol	ND		250	61
106-47-8	4-Chloroaniline	ND		250	61
7005-72-3	4-Chlorophenyl phenyl ether	ND		250	31
106-44-5	4-Methylphenol	ND		480	29
100-01-6	4-Nitroaniline	ND		480	130
100-02-7	4-Nitrophenol	ND		480	170
83-32-9	Acenaphthene	ND		250	36
208-96-8	Acenaphthylene	ND		250	32
98-86-2	Acetophenone	ND		250	34
120-12-7	Anthracene	ND		250	61
1912-24-9	Atrazine	ND		250	86
100-52-7	Benzaldehyde	ND		250	200
56-55-3	Benzo(a)anthracene	ND		250	25
50-32-8	Benzo(a)pyrene	ND		250	36
205-99-2	Benzo(b)fluoranthene	ND		250	39
191-24-2	Benzo(g,h,i)perylene	ND		250	26
207-08-9	Benzo(k)fluoranthene	ND		250	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 Lab Sample ID: 480-179270-11

Matrix: Solid Lab File ID: V3148763.D

Analysis Method: 8270D Date Collected: 12/09/2020 15:45

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.13(g) Date Analyzed: 12/16/2020 22:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 31.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		250	36
108-60-1	bis (2-chloroisopropyl) ether	ND		250	50
111-91-1	Bis(2-chloroethoxy)methane	ND		250	52
111-44-4	Bis(2-chloroethyl)ether	ND		250	32
117-81-7	Bis(2-ethylhexyl) phthalate	ND		250	85
85-68-7	Butyl benzyl phthalate	ND		250	41
105-60-2	Caprolactam	ND		250	74
86-74-8	Carbazole	ND		250	29
218-01-9	Chrysene	ND		250	55
53-70-3	Dibenz(a,h)anthracene	ND		250	44
132-64-9	Dibenzofuran	ND		250	29
84-66-2	Diethyl phthalate	ND		250	32
131-11-3	Dimethyl phthalate	ND		250	29
84-74-2	Di-n-butyl phthalate	ND		250	42
117-84-0	Di-n-octyl phthalate	ND		250	29
206-44-0	Fluoranthene	ND		250	26
86-73-7	Fluorene	ND		250	29
118-74-1	Hexachlorobenzene	ND		250	34
87-68-3	Hexachlorobutadiene	ND		250	36
77-47-4	Hexachlorocyclopentadiene	ND		250	34
67-72-1	Hexachloroethane	ND		250	32
193-39-5	Indeno(1,2,3-cd)pyrene	ND		250	31
78-59-1	Isophorone	ND		250	52
91-20-3	Naphthalene	ND		250	32
98-95-3	Nitrobenzene	ND		250	28
621-64-7	N-Nitrosodi-n-propylamine	ND		250	42
86-30-6	N-Nitrosodiphenylamine	ND		250	200
87-86-5	Pentachlorophenol	ND		480	250
85-01-8	Phenanthrene	ND		250	36
108-95-2	Phenol	ND		250	38
129-00-0	Pyrene	ND		250	29

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 Lab Sample ID: 480-179270-11

Matrix: Solid Lab File ID: V3148763.D

Analysis Method: 8270D Date Collected: 12/09/2020 15:45

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.13(g) Date Analyzed: 12/16/2020 22:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 31.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 4 TIC Result Total: 3180

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.50	440	T J	
	Unknown	2.05	1700	T J	
	Unknown	3.56	830	T J	
	Unknown	13.84	210	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 | Lab Sample ID: 480-179270-12

Matrix: Solid | Lab File ID: V3148764.D

Analysis Method: 8270D | Date Collected: 12/10/2020 08:30

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.12(g) | Date Analyzed: 12/16/2020 23:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 8.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		1900	500
88-06-2	2,4,6-Trichlorophenol	ND		1900	370
120-83-2	2,4-Dichlorophenol	ND		1900	200
105-67-9	2,4-Dimethylphenol	ND		1900	450
51-28-5	2,4-Dinitrophenol	ND		18000	8500
121-14-2	2,4-Dinitrotoluene	ND		1900	380
606-20-2	2,6-Dinitrotoluene	ND		1900	220
91-58-7	2-Chloronaphthalene	ND		1900	300
95-57-8	2-Chlorophenol	ND		3600	340
91-57-6	2-Methylnaphthalene	ND		1900	370
95-48-7	2-Methylphenol	ND		1900	220
88-74-4	2-Nitroaniline	ND		3600	270
88-75-5	2-Nitrophenol	ND		1900	520
91-94-1	3,3'-Dichlorobenzidine	ND		3600	2200
99-09-2	3-Nitroaniline	ND		3600	510
534-52-1	4,6-Dinitro-2-methylphenol	ND		3600	1900
101-55-3	4-Bromophenyl phenyl ether	ND		1900	260
59-50-7	4-Chloro-3-methylphenol	ND		1900	460
106-47-8	4-Chloroaniline	ND		1900	460
7005-72-3	4-Chlorophenyl phenyl ether	ND		1900	230
106-44-5	4-Methylphenol	ND		3600	220
100-01-6	4-Nitroaniline	ND		3600	970
100-02-7	4-Nitrophenol	ND		3600	1300
83-32-9	Acenaphthene	350	J	1900	270
208-96-8	Acenaphthylene	ND		1900	240
98-86-2	Acetophenone	ND		1900	250
120-12-7	Anthracene	570	J	1900	460
1912-24-9	Atrazine	ND		1900	640
100-52-7	Benzaldehyde	ND		1900	1500
56-55-3	Benzo(a)anthracene	1900		1900	190
50-32-8	Benzo(a)pyrene	1900		1900	270
205-99-2	Benzo(b)fluoranthene	2700		1900	290
191-24-2	Benzo(g,h,i)perylene	1000	J	1900	200
207-08-9	Benzo(k)fluoranthene	1200	J	1900	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 | Lab Sample ID: 480-179270-12

Matrix: Solid | Lab File ID: V3148764.D

Analysis Method: 8270D | Date Collected: 12/10/2020 08:30

Extract. Method: 3550C | Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.12(g) | Date Analyzed: 12/16/2020 23:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 8.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1900	270
108-60-1	bis (2-chloroisopropyl) ether	ND		1900	370
111-91-1	Bis(2-chloroethoxy)methane	ND		1900	390
111-44-4	Bis(2-chloroethyl)ether	ND		1900	240
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1900	630
85-68-7	Butyl benzyl phthalate	ND		1900	300
105-60-2	Caprolactam	ND		1900	560
86-74-8	Carbazole	480	J	1900	220
218-01-9	Chrysene	2200		1900	410
53-70-3	Dibenz(a,h)anthracene	ND		1900	330
132-64-9	Dibenzofuran	ND		1900	220
84-66-2	Diethyl phthalate	ND		1900	240
131-11-3	Dimethyl phthalate	ND		1900	220
84-74-2	Di-n-butyl phthalate	ND		1900	320
117-84-0	Di-n-octyl phthalate	ND		1900	220
206-44-0	Fluoranthene	4200		1900	200
86-73-7	Fluorene	270	J	1900	220
118-74-1	Hexachlorobenzene	ND		1900	250
87-68-3	Hexachlorobutadiene	ND		1900	270
77-47-4	Hexachlorocyclopentadiene	ND		1900	250
67-72-1	Hexachloroethane	ND		1900	240
193-39-5	Indeno(1,2,3-cd)pyrene	880	J	1900	230
78-59-1	Isophorone	ND		1900	390
91-20-3	Naphthalene	ND		1900	240
98-95-3	Nitrobenzene	ND		1900	210
621-64-7	N-Nitrosodi-n-propylamine	ND		1900	320
86-30-6	N-Nitrosodiphenylamine	ND		1900	1500
87-86-5	Pentachlorophenol	ND		3600	1900
85-01-8	Phenanthrene	2900		1900	270
108-95-2	Phenol	ND		1900	280
129-00-0	Pyrene	3000		1900	220

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 Lab Sample ID: 480-179270-12

Matrix: Solid Lab File ID: V3148764.D

Analysis Method: 8270D Date Collected: 12/10/2020 08:30

Extract. Method: 3550C Date Extracted: 12/14/2020 08:17

Sample wt/vol: 30.12(g) Date Analyzed: 12/16/2020 23:04

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 8.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563492 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 3800

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.05	2000	T J	
192-97-2	Benzo[e]pyrene	14.51	1800	T J N	89%

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid (TCLP) Lab File ID: 25_41-295.D

Analysis Method: 8081B Date Collected: 12/09/2020 12:20

Extraction Method: 3510C Date Extracted: 12/15/2020 11:16

Sample wt/vol: 250(mL) Date Analyzed: 12/16/2020 15:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563416 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12789-03-6	Chlordane (technical)	ND		0.0020	0.000029
72-20-8	Endrin	ND		0.00020	0.000014
58-89-9	gamma-BHC (Lindane)	ND		0.00020	0.0000060
76-44-8	Heptachlor	ND		0.00020	0.0000085
1024-57-3	Heptachlor epoxide	ND		0.00020	0.0000053
72-43-5	Methoxychlor	ND		0.00020	0.000014
8001-35-2	Toxaphene	ND		0.0020	0.00012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	100		20-120
877-09-8	Tetrachloro-m-xylene	93		44-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-1.35-1.50 Lab Sample ID: 480-179270-1

Matrix: Solid Lab File ID: 6_079-105.D

Analysis Method: 8082A Date Collected: 12/07/2020 14:00

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.48(g) Date Analyzed: 12/20/2020 18:25

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563958 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		4.5	0.87
11104-28-2	PCB-1221	ND		4.5	0.87
11141-16-5	PCB-1232	ND		4.5	0.87
53469-21-9	PCB-1242	ND		4.5	0.87
12672-29-6	PCB-1248	57		4.5	0.87
11097-69-1	PCB-1254	ND		4.5	2.1
11096-82-5	PCB-1260	ND		4.5	2.1
37324-23-5	PCB-1262	ND		4.5	2.1
11100-14-4	PCB-1268	ND		4.5	2.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-08-2.3-2.5 Lab Sample ID: 480-179270-2

Matrix: Solid Lab File ID: 6_079-106.D

Analysis Method: 8082A Date Collected: 12/07/2020 14:30

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.32(g) Date Analyzed: 12/20/2020 18:37

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 32.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563958 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		6.4	1.3
11104-28-2	PCB-1221	ND		6.4	1.3
11141-16-5	PCB-1232	ND		6.4	1.3
53469-21-9	PCB-1242	ND		6.4	1.3
12672-29-6	PCB-1248	80		6.4	1.3
11097-69-1	PCB-1254	ND		6.4	3.0
11096-82-5	PCB-1260	ND		6.4	3.0
37324-23-5	PCB-1262	ND		6.4	3.0
11100-14-4	PCB-1268	ND		6.4	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Matrix: Solid Lab File ID: 6_079-045.D

Analysis Method: 8082A Date Collected: 12/08/2020 10:10

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.62(g) Date Analyzed: 12/18/2020 17:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	0.27	J	0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	78		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1
SDG No.:
Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4
Matrix: Solid Lab File ID: 6_079-046.D
Analysis Method: 8082A Date Collected: 12/08/2020 10:15
Extraction Method: 3550C Date Extracted: 12/14/2020 08:24
Sample wt/vol: 2.27(g) Date Analyzed: 12/18/2020 17:29
Con. Extract Vol.: 10(mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)
% Moisture: 21.3 GPC Cleanup:(Y/N) N
Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	1.2	J	0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	0.32	J	0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-03-1.3-1.5 Lab Sample ID: 480-179270-5

Matrix: Solid Lab File ID: 6_079-107.D

Analysis Method: 8082A Date Collected: 12/08/2020 10:00

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.32(g) Date Analyzed: 12/20/2020 18:50

Con. Extract Vol.: 10(mL) Dilution Factor: 200

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 28.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563958 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		60	12
11104-28-2	PCB-1221	ND		60	12
11141-16-5	PCB-1232	ND		60	12
53469-21-9	PCB-1242	ND		60	12
12672-29-6	PCB-1248	650		60	12
11097-69-1	PCB-1254	ND		60	28
11096-82-5	PCB-1260	ND		60	28
37324-23-5	PCB-1262	ND		60	28
11100-14-4	PCB-1268	ND		60	28

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	60		60-154
2051-24-3	DCB Decachlorobiphenyl	0	S1-	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Matrix: Solid Lab File ID: 6_079-132.D

Analysis Method: 8082A Date Collected: 12/08/2020 12:05

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.21(g) Date Analyzed: 12/20/2020 23:59

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563958 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		5.4	1.1
11104-28-2	PCB-1221	ND		5.4	1.1
11141-16-5	PCB-1232	ND		5.4	1.1
53469-21-9	PCB-1242	ND		5.4	1.1
12672-29-6	PCB-1248	100		5.4	1.1
11097-69-1	PCB-1254	ND		5.4	2.5
11096-82-5	PCB-1260	ND		5.4	2.5
37324-23-5	PCB-1262	ND		5.4	2.5
11100-14-4	PCB-1268	ND		5.4	2.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	172	S1+	60-154
2051-24-3	DCB Decachlorobiphenyl	163		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06A-0.4-0.5 Lab Sample ID: 480-179270-7

Matrix: Solid Lab File ID: 6_079-108.D

Analysis Method: 8082A Date Collected: 12/08/2020 13:20

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.54(g) Date Analyzed: 12/20/2020 19:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1000

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563958 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		230	45
11104-28-2	PCB-1221	ND		230	45
11141-16-5	PCB-1232	ND		230	45
53469-21-9	PCB-1242	ND		230	45
12672-29-6	PCB-1248	7900		230	45
11097-69-1	PCB-1254	ND		230	110
11096-82-5	PCB-1260	ND		230	110
37324-23-5	PCB-1262	ND		230	110
11100-14-4	PCB-1268	ND		230	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	0	S1-	60-154
2051-24-3	DCB Decachlorobiphenyl	0	S1-	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Matrix: Solid Lab File ID: 6_079-049.D

Analysis Method: 8082A Date Collected: 12/09/2020 09:45

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.30(g) Date Analyzed: 12/18/2020 18:06

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.4	0.27
11104-28-2	PCB-1221	ND		1.4	0.27
11141-16-5	PCB-1232	ND		1.4	0.27
53469-21-9	PCB-1242	ND		1.4	0.27
12672-29-6	PCB-1248	8.0		1.4	0.27
11097-69-1	PCB-1254	ND		1.4	0.65
11096-82-5	PCB-1260	ND		1.4	0.65
37324-23-5	PCB-1262	ND		1.4	0.65
11100-14-4	PCB-1268	ND		1.4	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Matrix: Solid Lab File ID: 6_079-050.D

Analysis Method: 8082A Date Collected: 12/09/2020 12:20

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.84(g) Date Analyzed: 12/18/2020 18:18

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.040
11104-28-2	PCB-1221	ND		0.20	0.040
11141-16-5	PCB-1232	ND		0.20	0.040
53469-21-9	PCB-1242	ND		0.20	0.040
12672-29-6	PCB-1248	ND		0.20	0.040
11097-69-1	PCB-1254	0.19	J	0.20	0.095
11096-82-5	PCB-1260	ND		0.20	0.095
37324-23-5	PCB-1262	ND		0.20	0.095
11100-14-4	PCB-1268	ND		0.20	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	91		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-05-2.4-3.0 Lab Sample ID: 480-179270-10

Matrix: Solid Lab File ID: 6_079-051.D

Analysis Method: 8082A Date Collected: 12/09/2020 14:17

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.32(g) Date Analyzed: 12/18/2020 18:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 23.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	5.1		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-04-4.0-4.3 Lab Sample ID: 480-179270-11

Matrix: Solid Lab File ID: 6_079-052.D

Analysis Method: 8082A Date Collected: 12/09/2020 15:45

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.17(g) Date Analyzed: 12/18/2020 18:43

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 31.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.34	0.066
11104-28-2	PCB-1221	ND		0.34	0.066
11141-16-5	PCB-1232	ND		0.34	0.066
53469-21-9	PCB-1242	ND		0.34	0.066
12672-29-6	PCB-1248	ND		0.34	0.066
11097-69-1	PCB-1254	ND		0.34	0.16
11096-82-5	PCB-1260	ND		0.34	0.16
37324-23-5	PCB-1262	ND		0.34	0.16
11100-14-4	PCB-1268	ND		0.34	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: TP-2020-09-0.0-0.2 Lab Sample ID: 480-179270-12

Matrix: Solid Lab File ID: 6_079-053.D

Analysis Method: 8082A Date Collected: 12/10/2020 08:30

Extraction Method: 3550C Date Extracted: 12/14/2020 08:24

Sample wt/vol: 2.70(g) Date Analyzed: 12/18/2020 18:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 563848 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.040
11104-28-2	PCB-1221	ND		0.20	0.040
11141-16-5	PCB-1232	ND		0.20	0.040
53469-21-9	PCB-1242	ND		0.20	0.040
12672-29-6	PCB-1248	ND		0.20	0.040
11097-69-1	PCB-1254	ND		0.20	0.095
11096-82-5	PCB-1260	ND		0.20	0.095
37324-23-5	PCB-1262	ND		0.20	0.095
11100-14-4	PCB-1268	ND		0.20	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	114		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-08-1.35-1.50 Lab Sample ID: 480-179270-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/07/2020 14:00

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 90.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	2530	11.8	5.2	mg/Kg			1	6010C
7440-36-0	Antimony	ND	177	4.7	mg/Kg			10	6010C
7440-38-2	Arsenic	ND	23.6	4.7	mg/Kg			10	6010C
7440-39-3	Barium	22.1	0.59	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.11	0.24	0.033	mg/Kg	J		1	6010C
7440-43-9	Cadmium	ND	11.8	1.8	mg/Kg			50	6010C
7440-70-2	Calcium	10800	58.9	3.9	mg/Kg			1	6010C
7440-47-3	Chromium	723	5.9	2.4	mg/Kg			10	6010C
7440-48-4	Cobalt	56.8	0.59	0.059	mg/Kg			1	6010C
7440-50-8	Copper	243	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	436000	118	41.2	mg/Kg			10	6010C
7439-92-1	Lead	93.0	11.8	2.8	mg/Kg			10	6010C
7439-95-4	Magnesium	2100	23.6	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	3590	2.4	0.38	mg/Kg			10	6010C
7440-02-0	Nickel	131	58.9	2.7	mg/Kg			10	6010C
7440-09-7	Potassium	622	35.3	23.6	mg/Kg			1	6010C
7782-49-2	Selenium	46.5	47.1	4.7	mg/Kg	J		10	6010C
7440-22-4	Silver	4.8	7.1	2.4	mg/Kg	J		10	6010C
7440-23-5	Sodium	88.1	165	15.3	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	70.7	3.5	mg/Kg			10	6010C
7440-62-2	Vanadium	32.6	5.9	1.3	mg/Kg			10	6010C
7440-66-6	Zinc	19.5	2.4	0.75	mg/Kg			1	6010C
7439-97-6	Hg	0.011	0.016	0.0064	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-03-3.3-3.5 Lab Sample ID: 480-179270-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/08/2020 10:10

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 81.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4130	12.6	5.6	mg/Kg	J		1	6010C
7440-36-0	Antimony	ND	19.0	0.51	mg/Kg			1	6010C
7440-38-2	Arsenic	2.0	2.5	0.51	mg/Kg	J		1	6010C
7440-39-3	Barium	18.3	0.63	0.14	mg/Kg	J		1	6010C
7440-41-7	Beryllium	0.20	0.25	0.035	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.19	0.25	0.038	mg/Kg	J		1	6010C
7440-70-2	Calcium	61200	63.2	4.2	mg/Kg	J		1	6010C
7440-47-3	Chromium	5.3	0.63	0.25	mg/Kg	J		1	6010C
7440-48-4	Cobalt	2.9	0.63	0.063	mg/Kg	J		1	6010C
7440-50-8	Copper	10.8	1.3	0.27	mg/Kg	J		1	6010C
7439-89-6	Iron	7450	12.6	4.4	mg/Kg	J		1	6010C
7439-92-1	Lead	9.0	1.3	0.30	mg/Kg			1	6010C
7439-95-4	Magnesium	25500	25.3	1.2	mg/Kg	J		1	6010C
7439-96-5	Manganese	263	0.25	0.040	mg/Kg	J		1	6010C
7440-02-0	Nickel	6.7	6.3	0.29	mg/Kg	J		1	6010C
7440-09-7	Potassium	1120	37.9	25.3	mg/Kg	J		1	6010C
7782-49-2	Selenium	ND	5.1	0.51	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.76	0.25	mg/Kg			1	6010C
7440-23-5	Sodium	143	177	16.4	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.6	0.38	mg/Kg			1	6010C
7440-62-2	Vanadium	9.7	0.63	0.14	mg/Kg	J		1	6010C
7440-66-6	Zinc	52.0	2.5	0.81	mg/Kg			1	6010C
7439-97-6	Hg	ND	0.024	0.0099	mg/Kg			1	7471B

FD OF TP-2020-03 3.3-3.5

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/08/2020 10:15

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 78.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	20800	13.4	5.9	mg/Kg	J		1	6010C
7440-36-0	Antimony	ND	20.2	0.54	mg/Kg			1	6010C
7440-38-2	Arsenic	3.9	2.7	0.54	mg/Kg	J		1	6010C
7440-39-3	Barium	84.9	0.67	0.15	mg/Kg	J		1	6010C
7440-41-7	Beryllium	0.88	0.27	0.038	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.064	0.27	0.040	mg/Kg	J		1	6010C
7440-70-2	Calcium	57900	67.2	4.4	mg/Kg	J		1	6010C
7440-47-3	Chromium	26.1	0.67	0.27	mg/Kg	J		1	6010C
7440-48-4	Cobalt	10.9	0.67	0.067	mg/Kg	J		1	6010C
7440-50-8	Copper	17.7	1.3	0.28	mg/Kg	J		1	6010C
7439-89-6	Iron	24600	13.4	4.7	mg/Kg	J		1	6010C
7439-92-1	Lead	10.8	1.3	0.32	mg/Kg			1	6010C
7439-95-4	Magnesium	15800	26.9	1.2	mg/Kg	J		1	6010C
7439-96-5	Manganese	504	0.27	0.043	mg/Kg	J		1	6010C
7440-02-0	Nickel	28.3	6.7	0.31	mg/Kg	J		1	6010C
7440-09-7	Potassium	6390	40.3	26.9	mg/Kg	J		1	6010C
7782-49-2	Selenium	2.0	5.4	0.54	mg/Kg	J		1	6010C
7440-22-4	Silver	0.28	0.81	0.27	mg/Kg	J		1	6010C
7440-23-5	Sodium	236	188	17.5	mg/Kg			1	6010C
7440-28-0	Thallium	ND	8.1	0.40	mg/Kg			1	6010C
7440-62-2	Vanadium	39.5	0.67	0.15	mg/Kg	J		1	6010C
7440-66-6	Zinc	60.3	2.7	0.86	mg/Kg			1	6010C
7439-97-6	Hg	0.011	0.018	0.0074	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-02-3.3-3.5 Lab Sample ID: 480-179270-6

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/08/2020 12:05

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 83.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	19900	12.2	5.4	mg/Kg	J		1	6010C
7440-36-0	Antimony	ND	18.4	0.49	mg/Kg			1	6010C
7440-38-2	Arsenic	2.9	2.4	0.49	mg/Kg			1	6010C
7440-39-3	Barium	118	0.61	0.13	mg/Kg	J		1	6010C
7440-41-7	Beryllium	0.86	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	0.064	0.24	0.037	mg/Kg	J		1	6010C
7440-70-2	Calcium	45300	61.2	4.0	mg/Kg	J		1	6010C
7440-47-3	Chromium	24.2	0.61	0.24	mg/Kg	J		1	6010C
7440-48-4	Cobalt	11.9	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	16.9	1.2	0.26	mg/Kg	J		1	6010C
7439-89-6	Iron	22400	12.2	4.3	mg/Kg	J		1	6010C
7439-92-1	Lead	11.0	1.2	0.29	mg/Kg	J		1	6010C
7439-95-4	Magnesium	17400	24.5	1.1	mg/Kg	J		1	6010C
7439-96-5	Manganese	506	0.24	0.039	mg/Kg	J		1	6010C
7440-02-0	Nickel	26.3	6.1	0.28	mg/Kg	J		1	6010C
7440-09-7	Potassium	5740	36.7	24.5	mg/Kg	J		1	6010C
7782-49-2	Selenium	1.8	4.9	0.49	mg/Kg	J		1	6010C
7440-22-4	Silver	0.33	0.73	0.24	mg/Kg	J		1	6010C
7440-23-5	Sodium	241	171	15.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.3	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	35.7	0.61	0.13	mg/Kg	J		1	6010C
7440-66-6	Zinc	56.7	2.4	0.78	mg/Kg	J		1	6010C
7439-97-6	Hg	0.012	0.024	0.0098	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-06A-0.4-0.5 Lab Sample ID: 480-179270-7

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/08/2020 13:20

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 85.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	41000	12.2	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	ND	18.4	0.49	mg/Kg			1	6010C
7440-38-2	Arsenic	22.6	2.4	0.49	mg/Kg			1	6010C
7440-39-3	Barium	39.8	0.61	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.77	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	0.50	0.24	0.037	mg/Kg			1	6010C
7440-70-2	Calcium	75200	61.2	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	84.9	0.61	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	7.3	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	21.3	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	17000	12.2	4.3	mg/Kg			1	6010C
7439-92-1	Lead	50.2	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	5640	24.5	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	310	0.24	0.039	mg/Kg			1	6010C
7440-02-0	Nickel	36.5	6.1	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1930	36.7	24.5	mg/Kg			1	6010C
7782-49-2	Selenium	1.2	4.9	0.49	mg/Kg	J		1	6010C
7440-22-4	Silver	0.29	0.73	0.24	mg/Kg	J		1	6010C
7440-23-5	Sodium	2220	171	15.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.3	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	63.3	0.61	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	31.3	2.4	0.78	mg/Kg			1	6010C
7439-97-6	Hg	ND	0.021	0.0083	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/09/2020 09:45

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 78.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12800	12.6	5.6	mg/Kg			1	6010C
7440-36-0	Antimony	ND	37.9	1.0	mg/Kg			2	6010C
7440-38-2	Arsenic	3.2	5.1	1.0	mg/Kg	J		2	6010C
7440-39-3	Barium	86.8	0.63	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.56	0.25	0.035	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	1.3	0.19	mg/Kg			5	6010C
7440-70-2	Calcium	24900	63.2	4.2	mg/Kg			1	6010C
7440-47-3	Chromium	289	1.3	0.51	mg/Kg			2	6010C
7440-48-4	Cobalt	19.8	0.63	0.063	mg/Kg			1	6010C
7440-50-8	Copper	148	1.3	0.27	mg/Kg			1	6010C
7439-89-6	Iron	113000	25.3	8.8	mg/Kg			2	6010C
7439-92-1	Lead	33.6	2.5	0.61	mg/Kg			2	6010C
7439-95-4	Magnesium	8030	25.3	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	1050	0.51	0.081	mg/Kg			2	6010C
7440-02-0	Nickel	729	12.6	0.58	mg/Kg			2	6010C
7440-09-7	Potassium	2740	37.9	25.3	mg/Kg			1	6010C
7782-49-2	Selenium	11.8	10.1	1.0	mg/Kg			2	6010C
7440-22-4	Silver	1.2	1.5	0.51	mg/Kg	J		2	6010C
7440-23-5	Sodium	245	177	16.4	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.6	0.38	mg/Kg			1	6010C
7440-62-2	Vanadium	31.4	1.3	0.28	mg/Kg			2	6010C
7440-66-6	Zinc	103	2.5	0.81	mg/Kg			1	6010C
7439-97-6	Hg	0.026	0.025	0.010	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: TP-2020-06D-4.7-4.8 Lab Sample ID: 480-179270-8

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/09/2020 09:45

Reporting Basis: WET Date Received: 12/10/2020 16:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.012	0.015	0.0056	mg/L	J		1	6010C
7440-39-3	Barium	0.82	1.0	0.10	mg/L	J		1	6010C
7440-43-9	Cadmium	0.0015	0.0020	0.00050	mg/L	J		1	6010C
7440-47-3	Chromium	ND	0.020	0.010	mg/L			1	6010C
7439-92-1	Lead	ND	0.020	0.0030	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A_ASP

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/09/2020 12:20

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 86.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	9080	11.5	5.1	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.3	0.46	mg/Kg			1	6010C
7440-38-2	Arsenic	4.0	2.3	0.46	mg/Kg			1	6010C
7440-39-3	Barium	40.3	0.58	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.38	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	0.20	0.23	0.035	mg/Kg	J		1	6010C
7440-70-2	Calcium	79700	57.7	3.8	mg/Kg			1	6010C
7440-47-3	Chromium	11.5	0.58	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	5.8	0.58	0.058	mg/Kg			1	6010C
7440-50-8	Copper	12.3	1.2	0.24	mg/Kg			1	6010C
7439-89-6	Iron	12900	11.5	4.0	mg/Kg			1	6010C
7439-92-1	Lead	13.1	1.2	0.28	mg/Kg			1	6010C
7439-95-4	Magnesium	24200	23.1	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	518	0.23	0.037	mg/Kg			1	6010C
7440-02-0	Nickel	13.0	5.8	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	2600	34.6	23.1	mg/Kg			1	6010C
7782-49-2	Selenium	0.69	4.6	0.46	mg/Kg	J		1	6010C
7440-22-4	Silver	ND	0.69	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	192	161	15.0	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.9	0.35	mg/Kg			1	6010C
7440-62-2	Vanadium	18.9	0.58	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	63.8	2.3	0.74	mg/Kg			1	6010C
7439-97-6	Hg	0.021	0.021	0.0085	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: TP-2020-07-2.8-3.3 Lab Sample ID: 480-179270-9

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/09/2020 12:20

Reporting Basis: WET Date Received: 12/10/2020 16:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.47	1.0	0.10	mg/L	J		1	6010C
7440-43-9	Cadmium	0.0018	0.0020	0.00050	mg/L	J		1	6010C
7440-47-3	Chromium	ND	0.020	0.010	mg/L			1	6010C
7439-92-1	Lead	ND	0.020	0.0030	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A_ASP

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-05-2.4-3.0 Lab Sample ID: 480-179270-10

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/09/2020 14:17

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 76.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	24600	12.9	5.7	mg/Kg			1	6010C
7440-36-0	Antimony	ND	19.4	0.52	mg/Kg			1	6010C
7440-38-2	Arsenic	3.7	2.6	0.52	mg/Kg			1	6010C
7440-39-3	Barium	150	0.65	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	1.0	0.26	0.036	mg/Kg			1	6010C
7440-43-9	Cadmium	0.087	0.26	0.039	mg/Kg	J		1	6010C
7440-70-2	Calcium	31300	64.7	4.3	mg/Kg			1	6010C
7440-47-3	Chromium	28.3	0.65	0.26	mg/Kg			1	6010C
7440-48-4	Cobalt	12.0	0.65	0.065	mg/Kg			1	6010C
7440-50-8	Copper	17.3	1.3	0.27	mg/Kg			1	6010C
7439-89-6	Iron	26500	12.9	4.5	mg/Kg			1	6010C
7439-92-1	Lead	14.3	1.3	0.31	mg/Kg			1	6010C
7439-95-4	Magnesium	13600	25.9	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	419	0.26	0.041	mg/Kg			1	6010C
7440-02-0	Nickel	29.3	6.5	0.30	mg/Kg			1	6010C
7440-09-7	Potassium	5420	38.8	25.9	mg/Kg			1	6010C
7782-49-2	Selenium	2.2	5.2	0.52	mg/Kg	J		1	6010C
7440-22-4	Silver	0.35	0.78	0.26	mg/Kg	J		1	6010C
7440-23-5	Sodium	218	181	16.8	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.8	0.39	mg/Kg			1	6010C
7440-62-2	Vanadium	44.5	0.65	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	59.7	2.6	0.83	mg/Kg			1	6010C
7439-97-6	Hg	0.021	0.020	0.0079	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-04-4.0-4.3 Lab Sample ID: 480-179270-11

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/09/2020 15:45

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 68.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	30000	14.4	6.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	21.5	0.57	mg/Kg			1	6010C
7440-38-2	Arsenic	4.9	2.9	0.57	mg/Kg			1	6010C
7440-39-3	Barium	185	0.72	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	1.4	0.29	0.040	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.29	0.043	mg/Kg			1	6010C
7440-70-2	Calcium	12000	71.8	4.7	mg/Kg			1	6010C
7440-47-3	Chromium	33.9	0.72	0.29	mg/Kg			1	6010C
7440-48-4	Cobalt	15.9	0.72	0.072	mg/Kg			1	6010C
7440-50-8	Copper	17.2	1.4	0.30	mg/Kg			1	6010C
7439-89-6	Iron	31600	14.4	5.0	mg/Kg			1	6010C
7439-92-1	Lead	14.9	1.4	0.34	mg/Kg			1	6010C
7439-95-4	Magnesium	9170	28.7	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	454	0.29	0.046	mg/Kg			1	6010C
7440-02-0	Nickel	37.3	7.2	0.33	mg/Kg			1	6010C
7440-09-7	Potassium	5560	43.1	28.7	mg/Kg			1	6010C
7782-49-2	Selenium	2.5	5.7	0.57	mg/Kg	J		1	6010C
7440-22-4	Silver	0.45	0.86	0.29	mg/Kg	J		1	6010C
7440-23-5	Sodium	143	201	18.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	8.6	0.43	mg/Kg			1	6010C
7440-62-2	Vanadium	52.4	0.72	0.16	mg/Kg			1	6010C
7440-66-6	Zinc	80.3	2.9	0.92	mg/Kg			1	6010C
7439-97-6	Hg	0.016	0.030	0.012	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-2020-09-0.0-0.2 Lab Sample ID: 480-179270-12

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG ID.:

Matrix: Solid Date Sampled: 12/10/2020 08:30

Reporting Basis: DRY Date Received: 12/10/2020 16:00

% Solids: 91.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4070	10.7	4.7	mg/Kg			1	6010C
7440-36-0	Antimony	ND	32.1	0.86	mg/Kg			2	6010C
7440-38-2	Arsenic	4.9	4.3	0.86	mg/Kg			2	6010C
7440-39-3	Barium	61.3	0.54	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.29	0.21	0.030	mg/Kg			1	6010C
7440-43-9	Cadmium	1.1	0.43	0.064	mg/Kg			2	6010C
7440-70-2	Calcium	121000	107	7.1	mg/Kg			2	6010C
7440-47-3	Chromium	136	1.1	0.43	mg/Kg			2	6010C
7440-48-4	Cobalt	12.3	0.54	0.054	mg/Kg			1	6010C
7440-50-8	Copper	199	2.1	0.45	mg/Kg			2	6010C
7439-89-6	Iron	69400	21.4	7.5	mg/Kg			2	6010C
7439-92-1	Lead	115	2.1	0.51	mg/Kg			2	6010C
7439-95-4	Magnesium	53900	42.8	2.0	mg/Kg			2	6010C
7439-96-5	Manganese	1040	0.43	0.069	mg/Kg			2	6010C
7440-02-0	Nickel	211	10.7	0.49	mg/Kg			2	6010C
7440-09-7	Potassium	1090	32.1	21.4	mg/Kg			1	6010C
7782-49-2	Selenium	6.5	8.6	0.86	mg/Kg	J		2	6010C
7440-22-4	Silver	0.97	1.3	0.43	mg/Kg	J		2	6010C
7440-23-5	Sodium	200	150	13.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.4	0.32	mg/Kg			1	6010C
7440-62-2	Vanadium	17.7	1.1	0.24	mg/Kg			2	6010C
7440-66-6	Zinc	492	2.1	0.69	mg/Kg			1	6010C
7439-97-6	Hg	0.037	0.020	0.0082	mg/Kg			1	7471B

SDG

J177876

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-35-20-8.0-9.0 Lab Sample ID: 480-177876-10

Matrix: Solid Lab File ID: S4075.D

Analysis Method: 8260C Date Collected: 11/09/2020 09:20

Sample wt/vol: 5.11(g) Date Analyzed: 11/12/2020 01:20

Soil Aliquot Vol: 100 (uL) Dilution Factor: 1

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 9.0 Level: (low/med) Medium

Analysis Batch No.: 558565 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		110	31
79-34-5	1,1,2,2-Tetrachloroethane	ND		110	18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		110	56
79-00-5	1,1,2-Trichloroethane	ND		110	24
75-34-3	1,1-Dichloroethane	ND		110	35
75-35-4	1,1-Dichloroethene	ND		110	39
120-82-1	1,2,4-Trichlorobenzene	ND		110	43
96-12-8	1,2-Dibromo-3-Chloropropane	ND		110	56
95-50-1	1,2-Dichlorobenzene	ND		110	29
107-06-2	1,2-Dichloroethane	ND		110	46
78-87-5	1,2-Dichloropropane	ND		110	18
541-73-1	1,3-Dichlorobenzene	ND		110	30
106-46-7	1,4-Dichlorobenzene	ND		110	16
78-93-3	2-Butanone (MEK)	ND		560	330
591-78-6	2-Hexanone	ND		560	230
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		560	36
67-64-1	Acetone	ND		560	460
71-43-2	Benzene	ND		110	21
75-25-2	Bromoform	ND		110	56
74-83-9	Bromomethane	ND		110	25
75-15-0	Carbon disulfide	ND		110	51
56-23-5	Carbon tetrachloride	ND		110	29
108-90-7	Chlorobenzene	ND		110	15
124-48-1	Dibromochloromethane	ND		110	54
75-00-3	Chloroethane	ND		110	23
67-66-3	Chloroform	ND		110	77
74-87-3	Chloromethane	ND		110	27
156-59-2	cis-1,2-Dichloroethene	ND		110	31
110-82-7	Cyclohexane	ND		110	25
75-27-4	Bromodichloromethane	ND		110	23
75-71-8	Dichlorodifluoromethane	ND		110	49
100-41-4	Ethylbenzene	ND		110	33
106-93-4	1,2-Dibromoethane	ND		110	20
98-82-8	Isopropylbenzene	ND		110	17
79-20-9	Methyl acetate	ND		560	54

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-35-20-8.0-9.0 Lab Sample ID: 480-177876-10

Matrix: Solid Lab File ID: S4075.D

Analysis Method: 8260C Date Collected: 11/09/2020 09:20

Sample wt/vol: 5.11(g) Date Analyzed: 11/12/2020 01:20

Soil Aliquot Vol: 100 (uL) Dilution Factor: 1

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 9.0 Level: (low/med) Medium

Analysis Batch No.: 558565 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		110	43
108-87-2	Methylcyclohexane	ND		110	53
75-09-2	Methylene Chloride	ND		110	22
127-18-4	Tetrachloroethene	ND		110	15
108-88-3	Toluene	ND		110	30
156-60-5	trans-1,2-Dichloroethene	ND		110	27
10061-02-6	trans-1,3-Dichloropropene	ND		110	11
79-01-6	Trichloroethene	ND		110	31
75-69-4	Trichlorofluoromethane	ND		110	53
75-01-4	Vinyl chloride	ND		110	38
1330-20-7	Xylenes, Total	ND		230	62
10061-01-5	cis-1,3-Dichloropropene	ND		110	27
100-42-5	Styrene	ND		110	27

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		53-146
460-00-4	4-Bromofluorobenzene (Surr)	113		49-148
2037-26-5	Toluene-d8 (Surr)	105		50-149

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-35-20-8.0-9.0 Lab Sample ID: 480-177876-10

Matrix: Solid Lab File ID: S4075.D

Analysis Method: 8260C Date Collected: 11/09/2020 09:20

Sample wt/vol: 5.11(g) Date Analyzed: 11/12/2020 01:20

Soil Aliquot Vol: 100 (uL) Dilution Factor: 1

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 9.0 Level: (low/med) Medium

Analysis Batch No.: 558565 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 17000

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	4.77	1000	T J	
829-26-5	Naphthalene, 2,3,6-trimethyl-	10.25	1600	T J N	86%
2131-42-2	Naphthalene, 1,4,6-trimethyl-	10.64	1000	T J N	97%
	Unknown	11.49	1300	T J	
	Unknown	11.78	1800	T J	
	Unknown	12.15	3400	T J	
	Unknown	13.26	1400	T J	
575-43-9	Naphthalene, 1,6-dimethyl-	14.44	2000	T J N	95%
581-40-8	Naphthalene, 2,3-dimethyl-	14.56	2200	T J N	97%
582-16-1	Naphthalene, 2,7-dimethyl-	14.76	1300	T J N	95%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-39-20-5.0-5.5 Lab Sample ID: 480-177876-16

Matrix: Solid Lab File ID: P6151.D

Analysis Method: 8260C Date Collected: 11/09/2020 10:17

Sample wt/vol: 5.15(g) Date Analyzed: 11/12/2020 03:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 12.5 Level: (low/med) Low

Analysis Batch No.: 558659 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.5	0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.5	0.90
79-00-5	1,1,2-Trichloroethane	ND		5.5	0.72
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	1.3
75-34-3	1,1-Dichloroethane	ND		5.5	0.68
75-35-4	1,1-Dichloroethene	ND		5.5	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		5.5	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.5	2.8
95-50-1	1,2-Dichlorobenzene	ND		5.5	0.43
107-06-2	1,2-Dichloroethane	3.2	J	5.5	0.28
78-87-5	1,2-Dichloropropane	ND		5.5	2.8
541-73-1	1,3-Dichlorobenzene	ND		5.5	0.29
106-46-7	1,4-Dichlorobenzene	ND		5.5	0.78
78-93-3	2-Butanone (MEK)	ND		28	2.0
591-78-6	2-Hexanone	ND		28	2.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		28	1.8
67-64-1	Acetone	23	J	28	4.7
71-43-2	Benzene	ND		5.5	0.27
75-27-4	Bromodichloromethane	ND		5.5	0.74
75-25-2	Bromoform	ND		5.5	2.8
74-83-9	Bromomethane	ND		5.5	0.50
75-15-0	Carbon disulfide	ND		5.5	2.8
56-23-5	Carbon tetrachloride	ND		5.5	0.54
108-90-7	Chlorobenzene	ND		5.5	0.73
124-48-1	Dibromochloromethane	ND		5.5	0.71
75-00-3	Chloroethane	ND		5.5	1.3
67-66-3	Chloroform	ND		5.5	0.34
74-87-3	Chloromethane	ND		5.5	0.34
156-59-2	cis-1,2-Dichloroethene	ND		5.5	0.71
10061-01-5	cis-1,3-Dichloropropene	ND		5.5	0.80
110-82-7	Cyclohexane	ND		5.5	0.78
75-71-8	Dichlorodifluoromethane	ND		5.5	0.46
100-41-4	Ethylbenzene	ND		5.5	0.38
106-93-4	1,2-Dibromoethane	ND		5.5	0.71
98-82-8	Isopropylbenzene	ND		5.5	0.84

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-39-20-5.0-5.5 Lab Sample ID: 480-177876-16

Matrix: Solid Lab File ID: P6151.D

Analysis Method: 8260C Date Collected: 11/09/2020 10:17

Sample wt/vol: 5.15(g) Date Analyzed: 11/12/2020 03:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 12.5 Level: (low/med) Low

Analysis Batch No.: 558659 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		28	3.4
1634-04-4	Methyl tert-butyl ether	ND		5.5	0.54
108-87-2	Methylcyclohexane	ND		5.5	0.84
75-09-2	Methylene Chloride	ND		5.5	2.6
100-42-5	Styrene	ND		5.5	0.28
127-18-4	Tetrachloroethene	ND		5.5	0.74
108-88-3	Toluene	ND		5.5	0.42
156-60-5	trans-1,2-Dichloroethene	ND		5.5	0.57
10061-02-6	trans-1,3-Dichloropropene	ND		5.5	2.4
79-01-6	Trichloroethene	5.8		5.5	1.2
75-69-4	Trichlorofluoromethane	5.4	J	5.5	0.52
75-01-4	Vinyl chloride	ND		5.5	0.68
1330-20-7	Xylenes, Total	ND		11	0.93

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
460-00-4	4-Bromofluorobenzene (Surr)	84		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-39-20-5.0-5.5 Lab Sample ID: 480-177876-16

Matrix: Solid Lab File ID: P6151.D

Analysis Method: 8260C Date Collected: 11/09/2020 10:17

Sample wt/vol: 5.15(g) Date Analyzed: 11/12/2020 03:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 12.5 Level: (low/med) Low

Analysis Batch No.: 558659 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 21

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1868-53-7	Methane, dibromofluoro-	4.80	21	T J N	87%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-55-20-7.0-8.0 Lab Sample ID: 480-177876-23

Matrix: Solid Lab File ID: P6152.D

Analysis Method: 8260C Date Collected: 11/09/2020 11:40

Sample wt/vol: 5.05(g) Date Analyzed: 11/12/2020 03:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 20.0 Level: (low/med) Low

Analysis Batch No.: 558659 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		6.2	0.45
79-34-5	1,1,2,2-Tetrachloroethane	ND		6.2	1.0
79-00-5	1,1,2-Trichloroethane	ND		6.2	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	1.4
75-34-3	1,1-Dichloroethane	ND		6.2	0.75
75-35-4	1,1-Dichloroethene	ND		6.2	0.76
120-82-1	1,2,4-Trichlorobenzene	ND		6.2	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND		6.2	3.1
95-50-1	1,2-Dichlorobenzene	ND		6.2	0.48
107-06-2	1,2-Dichloroethane	ND		6.2	0.31
78-87-5	1,2-Dichloropropane	ND		6.2	3.1
541-73-1	1,3-Dichlorobenzene	ND		6.2	0.32
106-46-7	1,4-Dichlorobenzene	ND		6.2	0.87
78-93-3	2-Butanone (MEK)	19	J	31	2.3
591-78-6	2-Hexanone	ND		31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		31	2.0
67-64-1	Acetone	150		31	5.2
71-43-2	Benzene	ND		6.2	0.30
75-27-4	Bromodichloromethane	ND		6.2	0.83
75-25-2	Bromoform	ND		6.2	3.1
74-83-9	Bromomethane	ND		6.2	0.56
75-15-0	Carbon disulfide	ND		6.2	3.1
56-23-5	Carbon tetrachloride	ND		6.2	0.60
108-90-7	Chlorobenzene	ND		6.2	0.82
124-48-1	Dibromochloromethane	ND		6.2	0.79
75-00-3	Chloroethane	ND		6.2	1.4
67-66-3	Chloroform	ND		6.2	0.38
74-87-3	Chloromethane	ND		6.2	0.37
156-59-2	cis-1,2-Dichloroethene	ND		6.2	0.79
10061-01-5	cis-1,3-Dichloropropene	ND		6.2	0.89
110-82-7	Cyclohexane	ND		6.2	0.87
75-71-8	Dichlorodifluoromethane	ND		6.2	0.51
100-41-4	Ethylbenzene	ND		6.2	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-55-20-7.0-8.0 Lab Sample ID: 480-177876-23

Matrix: Solid Lab File ID: P6152.D

Analysis Method: 8260C Date Collected: 11/09/2020 11:40

Sample wt/vol: 5.05(g) Date Analyzed: 11/12/2020 03:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 20.0 Level: (low/med) Low

Analysis Batch No.: 558659 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	ND		6.2	0.79
98-82-8	Isopropylbenzene	ND		6.2	0.93
79-20-9	Methyl acetate	ND		31	3.7
1634-04-4	Methyl tert-butyl ether	ND		6.2	0.61
108-87-2	Methylcyclohexane	ND		6.2	0.94
75-09-2	Methylene Chloride	ND		6.2	2.8
100-42-5	Styrene	ND		6.2	0.31
127-18-4	Tetrachloroethene	ND		6.2	0.83
108-88-3	Toluene	0.80	J	6.2	0.47
156-60-5	trans-1,2-Dichloroethene	ND		6.2	0.64
10061-02-6	trans-1,3-Dichloropropene	ND		6.2	2.7
79-01-6	Trichloroethene	3.6	J	6.2	1.4
75-69-4	Trichlorofluoromethane	ND		6.2	0.59
75-01-4	Vinyl chloride	ND		6.2	0.75
1330-20-7	Xylenes, Total	1.0	J	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		64-126
460-00-4	4-Bromofluorobenzene (Surr)	80		72-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-55-20-7.0-8.0 Lab Sample ID: 480-177876-23

Matrix: Solid Lab File ID: P6152.D

Analysis Method: 8260C Date Collected: 11/09/2020 11:40

Sample wt/vol: 5.05(g) Date Analyzed: 11/12/2020 03:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 20.0 Level: (low/med) Low

Analysis Batch No.: 558659 Units: ug/Kg

Number TICs Found: 8 TIC Result Total: 93.8

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	7.2	T J	
~~1868-53-7~~	~~Methane, dibromofluoro~~	~~4.80~~	~~23~~	~~T J N~~	~~90%~~
	Unknown	11.16	8.6	T J	
	Unknown	12.73	6.3	T J	
	Unknown	14.38	18	T J	
	Unknown	14.62	9.3	T J	
	Unknown	14.68	15	T J	
	Unknown	14.79	6.4	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-35-20-0.8-1.8 | Lab Sample ID: 480-178050-8

Matrix: Solid | Lab File ID: V3148324.D

Analysis Method: 8270D | Date Collected: 11/10/2020 11:20

Extract. Method: 3550C | Date Extracted: 11/19/2020 08:03

Sample wt/vol: 30.48(g) | Date Analyzed: 11/23/2020 22:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 560544 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	ND		190	50
88-06-2	2,4,6-Trichlorophenol	ND		190	37
120-83-2	2,4-Dichlorophenol	ND		190	20
105-67-9	2,4-Dimethylphenol	ND		190	45
51-28-5	2,4-Dinitrophenol	ND		1800	860
121-14-2	2,4-Dinitrotoluene	ND		190	38
606-20-2	2,6-Dinitrotoluene	ND		190	22
91-58-7	2-Chloronaphthalene	ND		190	31
95-57-8	2-Chlorophenol	ND		360	34
91-57-6	2-Methylnaphthalene	ND		190	37
95-48-7	2-Methylphenol	ND		190	22
88-74-4	2-Nitroaniline	ND		360	27
88-75-5	2-Nitrophenol	ND		190	52
91-94-1	3,3'-Dichlorobenzidine	ND		360	220
99-09-2	3-Nitroaniline	ND		360	51
534-52-1	4,6-Dinitro-2-methylphenol	ND		360	190
101-55-3	4-Bromophenyl phenyl ether	ND		190	26
59-50-7	4-Chloro-3-methylphenol	ND		190	46
106-47-8	4-Chloroaniline	ND		190	46
7005-72-3	4-Chlorophenyl phenyl ether	ND		190	23
106-44-5	4-Methylphenol	ND		360	22
100-01-6	4-Nitroaniline	ND		360	97
100-02-7	4-Nitrophenol	ND		360	130
83-32-9	Acenaphthene	ND		190	27
208-96-8	Acenaphthylene	ND		190	24
98-86-2	Acetophenone	ND		190	25
120-12-7	Anthracene	ND		190	46
1912-24-9	Atrazine	ND		190	65
100-52-7	Benzaldehyde	ND	UJ	190	150
56-55-3	Benzo(a)anthracene	ND		190	19
50-32-8	Benzo(a)pyrene	ND		190	27
205-99-2	Benzo(b)fluoranthene	38	J	190	30
191-24-2	Benzo(g,h,i)perylene	21	J	190	20
207-08-9	Benzo(k)fluoranthene	ND		190	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-35-20-0.8-1.8 Lab Sample ID: 480-178050-8

Matrix: Solid Lab File ID: V3148324.D

Analysis Method: 8270D Date Collected: 11/10/2020 11:20

Extract. Method: 3550C Date Extracted: 11/19/2020 08:03

Sample wt/vol: 30.48(g) Date Analyzed: 11/23/2020 22:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 10.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560544 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		190	27
108-60-1	bis (2-chloroisopropyl) ether	ND	UJ	190	37
111-91-1	Bis(2-chloroethoxy)methane	ND		190	39
111-44-4	Bis(2-chloroethyl)ether	ND		190	24
117-81-7	Bis(2-ethylhexyl) phthalate	ND		190	63
85-68-7	Butyl benzyl phthalate	ND		190	31
105-60-2	Caprolactam	ND		190	56
86-74-8	Carbazole	ND		190	22
218-01-9	Chrysene	ND		190	42
53-70-3	Dibenz(a,h)anthracene	ND		190	33
132-64-9	Dibenzofuran	ND		190	22
84-66-2	Diethyl phthalate	ND		190	24
131-11-3	Dimethyl phthalate	ND		190	22
84-74-2	Di-n-butyl phthalate	ND		190	32
117-84-0	Di-n-octyl phthalate	ND		190	22
206-44-0	Fluoranthene	47	J	190	20
86-73-7	Fluorene	ND		190	22
118-74-1	Hexachlorobenzene	ND		190	25
87-68-3	Hexachlorobutadiene	ND		190	27
77-47-4	Hexachlorocyclopentadiene	ND		190	25
67-72-1	Hexachloroethane	ND		190	24
193-39-5	Indeno(1,2,3-cd)pyrene	ND		190	23
78-59-1	Isophorone	ND		190	39
91-20-3	Naphthalene	ND		190	24
98-95-3	Nitrobenzene	ND		190	21
621-64-7	N-Nitrosodi-n-propylamine	ND		190	32
86-30-6	N-Nitrosodiphenylamine	ND		190	150
87-86-5	Pentachlorophenol	ND		360	190
85-01-8	Phenanthrene	ND		190	27
108-95-2	Phenol	ND		190	28
129-00-0	Pyrene	36	J	190	22

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-35-20-0.8-1.8 Lab Sample ID: 480-178050-8

Matrix: Solid Lab File ID: V3148324.D

Analysis Method: 8270D Date Collected: 11/10/2020 11:20

Extract. Method: 3550C Date Extracted: 11/19/2020 08:03

Sample wt/vol: 30.48(g) Date Analyzed: 11/23/2020 22:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 10.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560544 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 3780

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.53	2700	T J	
	Unknown	2.08	930	T J	
	Unknown	3.62	150	T J	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-36--20-1.0-1.5 Lab Sample ID: 480-177876-1

Matrix: Solid Lab File ID: 7_84-035.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:09

Extraction Method: 3550C Date Extracted: 11/18/2020 07:43

Sample wt/vol: 2.46(g) Date Analyzed: 11/20/2020 02:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.044
11104-28-2	PCB-1221	ND		0.22	0.044
11141-16-5	PCB-1232	ND		0.22	0.044
53469-21-9	PCB-1242	ND		0.22	0.044
12672-29-6	PCB-1248	0.94		0.22	0.044
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-36--20-5.0-6.0 Lab Sample ID: 480-177876-2

Matrix: Solid Lab File ID: 6_077-237.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:10

Extraction Method: 3550C Date Extracted: 11/18/2020 07:43

Sample wt/vol: 2.76(g) Date Analyzed: 11/20/2020 12:15

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 6.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.97	0.19
11104-28-2	PCB-1221	ND		0.97	0.19
11141-16-5	PCB-1232	ND		0.97	0.19
53469-21-9	PCB-1242	ND		0.97	0.19
12672-29-6	PCB-1248	5.7	J	0.97	0.19
11097-69-1	PCB-1254	ND		0.97	0.45
11096-82-5	PCB-1260	ND		0.97	0.45
37324-23-5	PCB-1262	ND		0.97	0.45
11100-14-4	PCB-1268	ND		0.97	0.45

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-37-20-0.6-3.0 Lab Sample ID: 480-177876-3

Matrix: Solid Lab File ID: 7_84-037.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:22

Extraction Method: 3550C Date Extracted: 11/18/2020 07:43

Sample wt/vol: 2.42(g) Date Analyzed: 11/20/2020 03:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560081 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	1.4	J+	0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	156	X	60-154
2051-24-3	DCB Decachlorobiphenyl	169		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-37-20-3.0-5.0 Lab Sample ID: 480-177876-4

Matrix: Solid Lab File ID: 6_077-189.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:25

Extraction Method: 3550C Date Extracted: 11/18/2020 15:20

Sample wt/vol: 2.52(g) Date Analyzed: 11/20/2020 02:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-34-20-3.0-4.0 Lab Sample ID: 480-177876-5

Matrix: Solid Lab File ID: 6_077-192.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:42

Extraction Method: 3550C Date Extracted: 11/18/2020 15:20

Sample wt/vol: 2.58(g) Date Analyzed: 11/20/2020 02:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	3.1	JN	0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	95		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-34-20-4.0-5.0 Lab Sample ID: 480-177876-6

Matrix: Solid Lab File ID: 6_077-193.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:45

Extraction Method: 3550C Date Extracted: 11/18/2020 15:20

Sample wt/vol: 2.16(g) Date Analyzed: 11/20/2020 03:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	0.93	JN	0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		60-154
2051-24-3	DCB Decachlorobiphenyl	76		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-34-20-0.0-0.5 Lab Sample ID: 480-177876-7

Matrix: Solid Lab File ID: 6_077-194.D

Analysis Method: 8082A Date Collected: 11/09/2020 08:41

Extraction Method: 3550C Date Extracted: 11/18/2020 15:20

Sample wt/vol: 2.19(g) Date Analyzed: 11/20/2020 03:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 8.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	6.6		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: FD-110920-1 Lab Sample ID: 480-177876-8

Matrix: Solid Lab File ID: 6_077-238.D

Analysis Method: 8082A Date Collected: 11/09/2020 00:00

Extraction Method: 3550C Date Extracted: 11/18/2020 15:20

Sample wt/vol: 2.57(g) Date Analyzed: 11/20/2020 12:27

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 14.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560078 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.1	0.22
11104-28-2	PCB-1221	ND		1.1	0.22
11141-16-5	PCB-1232	ND		1.1	0.22
53469-21-9	PCB-1242	ND		1.1	0.22
12672-29-6	PCB-1248	17		1.1	0.22
11097-69-1	PCB-1254	ND		1.1	0.53
11096-82-5	PCB-1260	ND		1.1	0.53
37324-23-5	PCB-1262	ND		1.1	0.53
11100-14-4	PCB-1268	ND		1.1	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	130		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-35-20-0.0-0.5 Lab Sample ID: 480-177876-9

Matrix: Solid Lab File ID: 6_078-023.D

Analysis Method: 8082A Date Collected: 11/09/2020 09:15

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.1(g) Date Analyzed: 11/24/2020 18:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 8.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	5.9		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-35-20-8.0-9.0 Lab Sample ID: 480-177876-10

Matrix: Solid Lab File ID: 6_078-080.D

Analysis Method: 8082A Date Collected: 11/09/2020 09:20

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.32(g) Date Analyzed: 11/29/2020 16:32

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 9.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.46
11104-28-2	PCB-1221	ND		2.4	0.46
11141-16-5	PCB-1232	ND		2.4	0.46
53469-21-9	PCB-1242	ND		2.4	0.46
12672-29-6	PCB-1248	13		2.4	0.46
11097-69-1	PCB-1254	ND		2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		60-154
2051-24-3	DCB Decachlorobiphenyl	130		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-38-20-0.0-0.5 Lab Sample ID: 480-177876-11

Matrix: Solid Lab File ID: 6_078-025.D

Analysis Method: 8082A Date Collected: 11/09/2020 09:45

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.34(g) Date Analyzed: 11/24/2020 18:46

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 22.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.4	0.27
11104-28-2	PCB-1221	ND		1.4	0.27
11141-16-5	PCB-1232	ND		1.4	0.27
53469-21-9	PCB-1242	ND		1.4	0.27
12672-29-6	PCB-1248	ND		1.4	0.27
11097-69-1	PCB-1254	2.4		1.4	0.64
11096-82-5	PCB-1260	ND		1.4	0.64
37324-23-5	PCB-1262	ND		1.4	0.64
11100-14-4	PCB-1268	ND		1.4	0.64

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-38-20-1.0-1.5 Lab Sample ID: 480-177876-12

Matrix: Solid Lab File ID: 6_078-026.D

Analysis Method: 8082A Date Collected: 11/09/2020 09:50

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.18(g) Date Analyzed: 11/24/2020 18:58

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.4	0.28
11104-28-2	PCB-1221	ND		1.4	0.28
11141-16-5	PCB-1232	ND		1.4	0.28
53469-21-9	PCB-1242	ND		1.4	0.28
12672-29-6	PCB-1248	ND		1.4	0.28
11097-69-1	PCB-1254	6.0		1.4	0.67
11096-82-5	PCB-1260	ND		1.4	0.67
37324-23-5	PCB-1262	ND		1.4	0.67
11100-14-4	PCB-1268	ND		1.4	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	108		60-154
2051-24-3	DCB Decachlorobiphenyl	143		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-38-20-3.0-4.0 Lab Sample ID: 480-177876-13

Matrix: Solid Lab File ID: 6_078-027.D

Analysis Method: 8082A Date Collected: 11/09/2020 09:55

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.32(g) Date Analyzed: 11/24/2020 19:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-39-20-0.0-0.5 Lab Sample ID: 480-177876-14

Matrix: Solid Lab File ID: 6_078-081.D

Analysis Method: 8082A Date Collected: 11/09/2020 10:15

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.15(g) Date Analyzed: 11/29/2020 16:45

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.7	0.53
11104-28-2	PCB-1221	ND		2.7	0.53
11141-16-5	PCB-1232	ND		2.7	0.53
53469-21-9	PCB-1242	ND		2.7	0.53
12672-29-6	PCB-1248	ND		2.7	0.53
11097-69-1	PCB-1254	19		2.7	1.3
11096-82-5	PCB-1260	ND		2.7	1.3
37324-23-5	PCB-1262	ND		2.7	1.3
11100-14-4	PCB-1268	ND		2.7	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	151		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-39-20-1.0-1.5 Lab Sample ID: 480-177876-15

Matrix: Solid Lab File ID: 6_078-029.D

Analysis Method: 8082A Date Collected: 11/09/2020 10:16

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.31(g) Date Analyzed: 11/24/2020 19:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	134		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-39-20-5.0-5.5 Lab Sample ID: 480-177876-16

Matrix: Solid Lab File ID: 6_078-030.D

Analysis Method: 8082A Date Collected: 11/09/2020 10:17

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.34(g) Date Analyzed: 11/24/2020 19:47

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	ND		0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		60-154
2051-24-3	DCB Decachlorobiphenyl	131		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-40-20-1.5-1.5 Lab Sample ID: 480-177876-17

Matrix: Solid Lab File ID: 6_078-031.D

Analysis Method: 8082A Date Collected: 11/09/2020 10:40

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.23(g) Date Analyzed: 11/24/2020 20:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.055
11104-28-2	PCB-1221	ND		0.28	0.055
11141-16-5	PCB-1232	ND		0.28	0.055
53469-21-9	PCB-1242	ND		0.28	0.055
12672-29-6	PCB-1248	ND		0.28	0.055
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	151		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-40-20-5.0-6.0 Lab Sample ID: 480-177876-18

Matrix: Solid Lab File ID: 6_078-032.D

Analysis Method: 8082A Date Collected: 11/09/2020 10:40

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.91(g) Date Analyzed: 11/24/2020 20:12

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 22.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	4.7		0.22	0.043
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-49-20-0.0-0.5 Lab Sample ID: 480-177876-19

Matrix: Solid Lab File ID: 6_078-033.D

Analysis Method: 8082A Date Collected: 11/09/2020 11:18

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.2(g) Date Analyzed: 11/24/2020 20:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	7.3		0.24	0.048
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		60-154
2051-24-3	DCB Decachlorobiphenyl	100		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-49-20-1.5-2.0 Lab Sample ID: 480-177876-20

Matrix: Solid Lab File ID: 6_078-034.D

Analysis Method: 8082A Date Collected: 11/09/2020 11:20

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.6(g) Date Analyzed: 11/24/2020 20:37

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.0	0.40
11104-28-2	PCB-1221	ND		2.0	0.40
11141-16-5	PCB-1232	ND		2.0	0.40
53469-21-9	PCB-1242	ND		2.0	0.40
12672-29-6	PCB-1248	39		2.0	0.40
11097-69-1	PCB-1254	ND		2.0	0.96
11096-82-5	PCB-1260	ND		2.0	0.96
37324-23-5	PCB-1262	ND		2.0	0.96
11100-14-4	PCB-1268	ND		2.0	0.96

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-55-20-0.0-0.5 Lab Sample ID: 480-177876-21

Matrix: Solid Lab File ID: 6_078-035.D

Analysis Method: 8082A Date Collected: 11/09/2020 11:38

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.21(g) Date Analyzed: 11/24/2020 20:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	139		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-55-20-5.0-6.0 Lab Sample ID: 480-177876-22

Matrix: Solid Lab File ID: 6_078-036.D

Analysis Method: 8082A Date Collected: 11/09/2020 11:39

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.48(g) Date Analyzed: 11/24/2020 21:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.048
11104-28-2	PCB-1221	ND		0.25	0.048
11141-16-5	PCB-1232	ND		0.25	0.048
53469-21-9	PCB-1242	ND		0.25	0.048
12672-29-6	PCB-1248	ND		0.25	0.048
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		60-154
2051-24-3	DCB Decachlorobiphenyl	111		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-55-20-7.0-8.0 Lab Sample ID: 480-177876-23

Matrix: Solid Lab File ID: 6_078-037.D

Analysis Method: 8082A Date Collected: 11/09/2020 11:40

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.26(g) Date Analyzed: 11/24/2020 21:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	1.0		0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-42-20-0.0-1.0 Lab Sample ID: 480-177876-24

Matrix: Solid Lab File ID: 6_078-038.D

Analysis Method: 8082A Date Collected: 11/09/2020 12:27

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.21(g) Date Analyzed: 11/24/2020 21:26

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		5.8	1.1
11104-28-2	PCB-1221	ND		5.8	1.1
11141-16-5	PCB-1232	ND		5.8	1.1
53469-21-9	PCB-1242	ND		5.8	1.1
12672-29-6	PCB-1248	ND		5.8	1.1
11097-69-1	PCB-1254	29		5.8	2.7
11096-82-5	PCB-1260	ND		5.8	2.7
37324-23-5	PCB-1262	ND		5.8	2.7
11100-14-4	PCB-1268	ND		5.8	2.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	135		60-154
2051-24-3	DCB Decachlorobiphenyl	143		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-42-20-2.5-3.5 Lab Sample ID: 480-177876-25

Matrix: Solid Lab File ID: 6_078-041.D

Analysis Method: 8082A Date Collected: 11/09/2020 12:30

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.29(g) Date Analyzed: 11/24/2020 22:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 19.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	0.29		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-41-20-0.0-1.5 Lab Sample ID: 480-177876-26

Matrix: Solid Lab File ID: 6_078-082.D

Analysis Method: 8082A Date Collected: 11/09/2020 12:39

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.75(g) Date Analyzed: 11/29/2020 16:57

Con. Extract Vol.: 10(mL) Dilution Factor: 50

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 8.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		9.9	1.9
11104-28-2	PCB-1221	ND		9.9	1.9
11141-16-5	PCB-1232	ND		9.9	1.9
53469-21-9	PCB-1242	ND		9.9	1.9
12672-29-6	PCB-1248	ND		9.9	1.9
11097-69-1	PCB-1254	79		9.9	4.6
11096-82-5	PCB-1260	ND		9.9	4.6
37324-23-5	PCB-1262	ND		9.9	4.6
11100-14-4	PCB-1268	ND		9.9	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	162		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-41-20-3.0-4.0 Lab Sample ID: 480-177876-27

Matrix: Solid Lab File ID: 6_078-043.D

Analysis Method: 8082A Date Collected: 11/09/2020 12:40

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.36(g) Date Analyzed: 11/24/2020 22:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 22.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	132		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-22-20-1.0-1.5 Lab Sample ID: 480-177876-28

Matrix: Solid Lab File ID: 6_078-044.D

Analysis Method: 8082A Date Collected: 11/09/2020 13:01

Extraction Method: 3550C Date Extracted: 11/18/2020 15:16

Sample wt/vol: 2.08(g) Date Analyzed: 11/24/2020 22:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 9.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560766 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	130		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-22-20-2.0-2.5 Lab Sample ID: 480-177876-29

Matrix: Solid Lab File ID: 7_84-164.D

Analysis Method: 8082A Date Collected: 11/09/2020 13:02

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.59(g) Date Analyzed: 11/23/2020 20:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 5.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.040
11104-28-2	PCB-1221	ND		0.20	0.040
11141-16-5	PCB-1232	ND		0.20	0.040
53469-21-9	PCB-1242	ND		0.20	0.040
12672-29-6	PCB-1248	ND		0.20	0.040
11097-69-1	PCB-1254	ND		0.20	0.096
11096-82-5	PCB-1260	ND		0.20	0.096
37324-23-5	PCB-1262	ND		0.20	0.096
11100-14-4	PCB-1268	ND		0.20	0.096

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	113		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-22-20-4.0-4.5 Lab Sample ID: 480-177876-30

Matrix: Solid Lab File ID: 7_84-166.D

Analysis Method: 8082A Date Collected: 11/09/2020 13:03

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.13(g) Date Analyzed: 11/23/2020 21:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	ND		0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	ND		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-20-20-1.0-1.5 Lab Sample ID: 480-177876-31

Matrix: Solid Lab File ID: 7_84-167.D

Analysis Method: 8082A Date Collected: 11/09/2020 13:15

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.51(g) Date Analyzed: 11/23/2020 21:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	ND		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-20-20-1.5-2.5 Lab Sample ID: 480-177876-32

Matrix: Solid Lab File ID: 7_84-168.D

Analysis Method: 8082A Date Collected: 11/09/2020 13:16

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.14(g) Date Analyzed: 11/23/2020 21:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-20-20-4.0-4.5 Lab Sample ID: 480-177876-33

Matrix: Solid Lab File ID: 7_84-171.D

Analysis Method: 8082A Date Collected: 11/09/2020 13:20

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.60(g) Date Analyzed: 11/23/2020 22:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-01-20-0.6-1.1 Lab Sample ID: 480-178050-1

Matrix: Solid Lab File ID: 7_84-172.D

Analysis Method: 8082A Date Collected: 11/10/2020 08:25

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.21(g) Date Analyzed: 11/23/2020 22:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	1.9		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	124		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-03-20-1.2-1.7 Lab Sample ID: 480-178050-2

Matrix: Solid Lab File ID: 7_84-226.D

Analysis Method: 8082A Date Collected: 11/10/2020 09:25

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.21(g) Date Analyzed: 11/24/2020 16:56

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560721 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.9	0.56
11104-28-2	PCB-1221	ND		2.9	0.56
11141-16-5	PCB-1232	ND		2.9	0.56
53469-21-9	PCB-1242	ND		2.9	0.56
12672-29-6	PCB-1248	26		2.9	0.56
11097-69-1	PCB-1254	ND		2.9	1.3
11096-82-5	PCB-1260	ND		2.9	1.3
37324-23-5	PCB-1262	ND		2.9	1.3
11100-14-4	PCB-1268	ND		2.9	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	111		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-02-20-1.1-1.6 Lab Sample ID: 480-178050-3

Matrix: Solid Lab File ID: 7_84-174.D

Analysis Method: 8082A Date Collected: 11/10/2020 09:45

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.67(g) Date Analyzed: 11/23/2020 23:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	5.1		0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-04-20-1.2-1.7 Lab Sample ID: 480-178050-4

Matrix: Solid Lab File ID: 7_84-175.D

Analysis Method: 8082A Date Collected: 11/10/2020 10:10

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.42(g) Date Analyzed: 11/23/2020 23:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	6.9		0.22	0.043
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	87		60-154
2051-24-3	DCB Decachlorobiphenyl	96		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-11-20-1.1-1.6 Lab Sample ID: 480-178050-5

Matrix: Solid Lab File ID: 7_84-176.D

Analysis Method: 8082A Date Collected: 11/10/2020 10:30

Extraction Method: 3550C Date Extracted: 11/20/2020 07:33

Sample wt/vol: 2.23(g) Date Analyzed: 11/23/2020 23:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 10.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 560501 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		60-154
2051-24-3	DCB Decachlorobiphenyl	78		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-16-20-1.0-1.5 Lab Sample ID: 480-178050-6

Matrix: Solid Lab File ID: 7_85-005.D

Analysis Method: 8082A Date Collected: 11/10/2020 10:55

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.39(g) Date Analyzed: 11/30/2020 14:25

Con. Extract Vol.: 10(mL) Dilution Factor: 200

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		45	8.7
11104-28-2	PCB-1221	ND		45	8.7
11141-16-5	PCB-1232	ND		45	8.7
53469-21-9	PCB-1242	ND		45	8.7
12672-29-6	PCB-1248	620		45	8.7
11097-69-1	PCB-1254	ND		45	21
11096-82-5	PCB-1260	ND		45	21
37324-23-5	PCB-1262	ND		45	21
11100-14-4	PCB-1268	ND		45	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	58	X	60-154
2051-24-3	DCB Decachlorobiphenyl	0	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-35-20-0.8-1.3 Lab Sample ID: 480-178050-7

Matrix: Solid Lab File ID: 6_078-103.D

Analysis Method: 8082A Date Collected: 11/10/2020 11:20

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.21(g) Date Analyzed: 11/29/2020 21:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	0.20	J	0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	139		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-15-20-0.8-1.3 Lab Sample ID: 480-178050-9

Matrix: Solid Lab File ID: 6_078-104.D

Analysis Method: 8082A Date Collected: 11/10/2020 11:45

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.37(g) Date Analyzed: 11/29/2020 21:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 19.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	153		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-14-20-0.9-1.4 Lab Sample ID: 480-178050-10

Matrix: Solid Lab File ID: 6_078-105.D

Analysis Method: 8082A Date Collected: 11/10/2020 12:55

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.34(g) Date Analyzed: 11/29/2020 21:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 14.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	5.8		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	138		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-18-20-1.1-1.6 Lab Sample ID: 480-178050-11

Matrix: Solid Lab File ID: 6_078-106.D

Analysis Method: 8082A Date Collected: 11/10/2020 13:15

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.50(g) Date Analyzed: 11/29/2020 21:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 11.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	0.094	J	0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	103		60-154
2051-24-3	DCB Decachlorobiphenyl	154		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-32-20-1.3-1.8 Lab Sample ID: 480-178050-12

Matrix: Solid Lab File ID: 6_078-107.D

Analysis Method: 8082A Date Collected: 11/10/2020 14:30

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.53(g) Date Analyzed: 11/29/2020 22:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	ND		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		60-154
2051-24-3	DCB Decachlorobiphenyl	152		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-05-20-1.1-1.6 Lab Sample ID: 480-178050-13

Matrix: Solid Lab File ID: 6_078-108.D

Analysis Method: 8082A Date Collected: 11/10/2020 14:50

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.25(g) Date Analyzed: 11/29/2020 22:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	0.35		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	90		60-154
2051-24-3	DCB Decachlorobiphenyl	149		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-06-20-0.9-1.4 Lab Sample ID: 480-178050-14

Matrix: Solid Lab File ID: 6_078-099.D

Analysis Method: 8082A Date Collected: 11/11/2020 09:10

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.59(g) Date Analyzed: 11/29/2020 20:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 7.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.041
11104-28-2	PCB-1221	ND		0.21	0.041
11141-16-5	PCB-1232	ND		0.21	0.041
53469-21-9	PCB-1242	ND		0.21	0.041
12672-29-6	PCB-1248	1.8		0.21	0.041
11097-69-1	PCB-1254	ND		0.21	0.098
11096-82-5	PCB-1260	ND		0.21	0.098
37324-23-5	PCB-1262	ND		0.21	0.098
11100-14-4	PCB-1268	ND		0.21	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	103		60-154
2051-24-3	DCB Decachlorobiphenyl	160		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-07-20-0.8-1.3 Lab Sample ID: 480-178050-15

Matrix: Solid Lab File ID: 6_078-109.D

Analysis Method: 8082A Date Collected: 11/11/2020 09:30

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.27(g) Date Analyzed: 11/29/2020 22:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.15	0.030
11104-28-2	PCB-1221	ND		0.15	0.030
11141-16-5	PCB-1232	ND		0.15	0.030
53469-21-9	PCB-1242	ND		0.15	0.030
12672-29-6	PCB-1248	0.87		0.15	0.030
11097-69-1	PCB-1254	ND		0.15	0.071
11096-82-5	PCB-1260	ND		0.15	0.071
37324-23-5	PCB-1262	ND		0.15	0.071
11100-14-4	PCB-1268	ND		0.15	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	87		60-154
2051-24-3	DCB Decachlorobiphenyl	145		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-08-20-0.7-1.2 Lab Sample ID: 480-178050-16

Matrix: Solid Lab File ID: 6_078-110.D

Analysis Method: 8082A Date Collected: 11/11/2020 09:55

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.67(g) Date Analyzed: 11/29/2020 22:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.18	0.035
11104-28-2	PCB-1221	ND		0.18	0.035
11141-16-5	PCB-1232	ND		0.18	0.035
53469-21-9	PCB-1242	ND		0.18	0.035
12672-29-6	PCB-1248	0.32		0.18	0.035
11097-69-1	PCB-1254	ND		0.18	0.085
11096-82-5	PCB-1260	ND		0.18	0.085
37324-23-5	PCB-1262	ND		0.18	0.085
11100-14-4	PCB-1268	ND		0.18	0.085

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	168		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-09-20-0.7-1.2 Lab Sample ID: 480-178050-17

Matrix: Solid Lab File ID: 6_078-111.D

Analysis Method: 8082A Date Collected: 11/11/2020 10:40

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.47(g) Date Analyzed: 11/29/2020 22:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 39.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.34	0.066
11104-28-2	PCB-1221	ND		0.34	0.066
11141-16-5	PCB-1232	ND		0.34	0.066
53469-21-9	PCB-1242	ND		0.34	0.066
12672-29-6	PCB-1248	ND		0.34	0.066
11097-69-1	PCB-1254	ND		0.34	0.16
11096-82-5	PCB-1260	ND		0.34	0.16
37324-23-5	PCB-1262	ND		0.34	0.16
11100-14-4	PCB-1268	ND		0.34	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		60-154
2051-24-3	DCB Decachlorobiphenyl	158		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SF-10-20-1.1-1.6 Lab Sample ID: 480-178050-18

Matrix: Solid Lab File ID: 6_078-112.D

Analysis Method: 8082A Date Collected: 11/11/2020 11:00

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.22(g) Date Analyzed: 11/29/2020 23:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 4.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	ND		0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	146		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-01-20 Lab Sample ID: 480-178191-1

Matrix: Solid Lab File ID: 6_078-113.D

Analysis Method: 8082A Date Collected: 11/12/2020 07:45

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.42(g) Date Analyzed: 11/29/2020 23:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.040
11104-28-2	PCB-1221	ND		0.21	0.040
11141-16-5	PCB-1232	ND		0.21	0.040
53469-21-9	PCB-1242	ND		0.21	0.040
12672-29-6	PCB-1248	5.5		0.21	0.040
11097-69-1	PCB-1254	ND		0.21	0.097
11096-82-5	PCB-1260	ND		0.21	0.097
37324-23-5	PCB-1262	ND		0.21	0.097
11100-14-4	PCB-1268	ND		0.21	0.097

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	107		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-02-20 Lab Sample ID: 480-178191-2

Matrix: Solid Lab File ID: 7_84-328.D

Analysis Method: 8082A Date Collected: 11/12/2020 08:30

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.13(g) Date Analyzed: 11/30/2020 02:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	134		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-03-20 Lab Sample ID: 480-178191-3

Matrix: Solid Lab File ID: 7_84-329.D

Analysis Method: 8082A Date Collected: 11/12/2020 08:45

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.18(g) Date Analyzed: 11/30/2020 02:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-04-20 Lab Sample ID: 480-178191-4

Matrix: Solid Lab File ID: 7_84-330.D

Analysis Method: 8082A Date Collected: 11/12/2020 08:50

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.16(g) Date Analyzed: 11/30/2020 02:52

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.3	0.45
11104-28-2	PCB-1221	ND		2.3	0.45
11141-16-5	PCB-1232	ND		2.3	0.45
53469-21-9	PCB-1242	ND		2.3	0.45
12672-29-6	PCB-1248	ND		2.3	0.45
11097-69-1	PCB-1254	ND		2.3	1.1
11096-82-5	PCB-1260	ND		2.3	1.1
37324-23-5	PCB-1262	ND		2.3	1.1
11100-14-4	PCB-1268	ND		2.3	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	128		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: FD-111220-1 Lab Sample ID: 480-178191-5

Matrix: Solid Lab File ID: 7_84-331.D

Analysis Method: 8082A Date Collected: 11/12/2020 00:00

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.05(g) Date Analyzed: 11/30/2020 03:08

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.48
11104-28-2	PCB-1221	ND		2.4	0.48
11141-16-5	PCB-1232	ND		2.4	0.48
53469-21-9	PCB-1242	ND		2.4	0.48
12672-29-6	PCB-1248	0.68	J	2.4	0.48
11097-69-1	PCB-1254	ND		2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	117		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-05-20 Lab Sample ID: 480-178191-6

Matrix: Solid Lab File ID: 7_84-332.D

Analysis Method: 8082A Date Collected: 11/12/2020 09:20

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.20(g) Date Analyzed: 11/30/2020 03:24

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	2.2		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		60-154
2051-24-3	DCB Decachlorobiphenyl	83		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-06-20 Lab Sample ID: 480-178191-7

Matrix: Solid Lab File ID: 7_84-333.D

Analysis Method: 8082A Date Collected: 11/12/2020 09:30

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.06(g) Date Analyzed: 11/30/2020 03:39

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.47
11104-28-2	PCB-1221	ND		2.4	0.47
11141-16-5	PCB-1232	ND		2.4	0.47
53469-21-9	PCB-1242	ND		2.4	0.47
12672-29-6	PCB-1248	ND		2.4	0.47
11097-69-1	PCB-1254	ND		2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: FD-111220-2 Lab Sample ID: 480-178191-8

Matrix: Solid Lab File ID: 7_84-334.D

Analysis Method: 8082A Date Collected: 11/12/2020 00:00

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.18(g) Date Analyzed: 11/30/2020 03:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		60-154
2051-24-3	DCB Decachlorobiphenyl	81		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-07-20 Lab Sample ID: 480-178191-9

Matrix: Solid Lab File ID: 7_84-337.D

Analysis Method: 8082A Date Collected: 11/12/2020 10:00

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.08(g) Date Analyzed: 11/30/2020 04:43

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		4.8	0.94
11104-28-2	PCB-1221	ND		4.8	0.94
11141-16-5	PCB-1232	ND		4.8	0.94
53469-21-9	PCB-1242	ND		4.8	0.94
12672-29-6	PCB-1248	14		4.8	0.94
11097-69-1	PCB-1254	ND		4.8	2.3
11096-82-5	PCB-1260	ND		4.8	2.3
37324-23-5	PCB-1262	ND		4.8	2.3
11100-14-4	PCB-1268	ND		4.8	2.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	139		60-154
2051-24-3	DCB Decachlorobiphenyl	149		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-08-20 Lab Sample ID: 480-178191-10

Matrix: Solid Lab File ID: 7_85-001.D

Analysis Method: 8082A Date Collected: 11/12/2020 10:10

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.15(g) Date Analyzed: 11/30/2020 08:18

Con. Extract Vol.: 10(mL) Dilution Factor: 100

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		23	4.5
11104-28-2	PCB-1221	ND		23	4.5
11141-16-5	PCB-1232	ND		23	4.5
53469-21-9	PCB-1242	630		23	4.5
12672-29-6	PCB-1248	ND		23	4.5
11097-69-1	PCB-1254	140		23	11
11096-82-5	PCB-1260	ND		23	11
37324-23-5	PCB-1262	ND		23	11
11100-14-4	PCB-1268	ND		23	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	71		60-154
2051-24-3	DCB Decachlorobiphenyl	0	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-09-20 Lab Sample ID: 480-178191-11

Matrix: Solid Lab File ID: 7_84-339.D

Analysis Method: 8082A Date Collected: 11/12/2020 10:20

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.16(g) Date Analyzed: 11/30/2020 05:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	0.51		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-10-20 Lab Sample ID: 480-178191-12

Matrix: Solid Lab File ID: 7_84-340.D

Analysis Method: 8082A Date Collected: 11/12/2020 10:30

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.18(g) Date Analyzed: 11/30/2020 05:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-11-20 Lab Sample ID: 480-178191-13

Matrix: Solid Lab File ID: 7_84-341.D

Analysis Method: 8082A Date Collected: 11/12/2020 11:20

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.18(g) Date Analyzed: 11/30/2020 05:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	0.25		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		60-154
2051-24-3	DCB Decachlorobiphenyl	76		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-12-20 Lab Sample ID: 480-178191-14

Matrix: Solid Lab File ID: 7_84-342.D

Analysis Method: 8082A Date Collected: 11/12/2020 11:30

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.08(g) Date Analyzed: 11/30/2020 06:02

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.47
11104-28-2	PCB-1221	ND		2.4	0.47
11141-16-5	PCB-1232	ND		2.4	0.47
53469-21-9	PCB-1242	ND		2.4	0.47
12672-29-6	PCB-1248	31		2.4	0.47
11097-69-1	PCB-1254	ND		2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	88		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-13-20 Lab Sample ID: 480-178191-15

Matrix: Solid Lab File ID: 7_85-002.D

Analysis Method: 8082A Date Collected: 11/12/2020 11:40

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.07(g) Date Analyzed: 11/30/2020 08:34

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.2	0.24
11104-28-2	PCB-1221	ND		1.2	0.24
11141-16-5	PCB-1232	ND		1.2	0.24
53469-21-9	PCB-1242	ND		1.2	0.24
12672-29-6	PCB-1248	ND		1.2	0.24
11097-69-1	PCB-1254	12		1.2	0.57
11096-82-5	PCB-1260	ND		1.2	0.57
37324-23-5	PCB-1262	ND		1.2	0.57
11100-14-4	PCB-1268	ND		1.2	0.57

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	91		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-14-20 Lab Sample ID: 480-178191-16

Matrix: Solid Lab File ID: 7_84-344.D

Analysis Method: 8082A Date Collected: 11/12/2020 12:20

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.05(g) Date Analyzed: 11/30/2020 06:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.048
11104-28-2	PCB-1221	ND		0.24	0.048
11141-16-5	PCB-1232	ND		0.24	0.048
53469-21-9	PCB-1242	ND		0.24	0.048
12672-29-6	PCB-1248	ND		0.24	0.048
11097-69-1	PCB-1254	2.3	J	0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	85		60-154
2051-24-3	DCB Decachlorobiphenyl	82		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-15-20 Lab Sample ID: 480-178191-17

Matrix: Solid Lab File ID: 7_85-003.D

Analysis Method: 8082A Date Collected: 11/12/2020 12:30

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.09(g) Date Analyzed: 11/30/2020 08:50

Con. Extract Vol.: 10(mL) Dilution Factor: 50

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		12	2.3
11104-28-2	PCB-1221	ND		12	2.3
11141-16-5	PCB-1232	ND		12	2.3
53469-21-9	PCB-1242	ND		12	2.3
12672-29-6	PCB-1248	200		12	2.3
11097-69-1	PCB-1254	ND		12	5.6
11096-82-5	PCB-1260	ND		12	5.6
37324-23-5	PCB-1262	ND		12	5.6
11100-14-4	PCB-1268	ND		12	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	0	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-16-20 Lab Sample ID: 480-178191-18

Matrix: Solid Lab File ID: 7_84-346.D

Analysis Method: 8082A Date Collected: 11/12/2020 13:05

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.14(g) Date Analyzed: 11/30/2020 07:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	1.1		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	81		60-154
2051-24-3	DCB Decachlorobiphenyl	84		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-17-20 Lab Sample ID: 480-178191-19

Matrix: Solid Lab File ID: 7_84-347.D

Analysis Method: 8082A Date Collected: 11/12/2020 13:20

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.20(g) Date Analyzed: 11/30/2020 07:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.044
11104-28-2	PCB-1221	ND		0.23	0.044
11141-16-5	PCB-1232	ND		0.23	0.044
53469-21-9	PCB-1242	ND		0.23	0.044
12672-29-6	PCB-1248	4.4		0.23	0.044
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		60-154
2051-24-3	DCB Decachlorobiphenyl	90		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-18-20 Lab Sample ID: 480-178191-20

Matrix: Solid Lab File ID: 7_84-348.D

Analysis Method: 8082A Date Collected: 11/12/2020 14:00

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.15(g) Date Analyzed: 11/30/2020 07:37

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.3	0.45
11104-28-2	PCB-1221	ND		2.3	0.45
11141-16-5	PCB-1232	ND		2.3	0.45
53469-21-9	PCB-1242	ND		2.3	0.45
12672-29-6	PCB-1248	ND		2.3	0.45
11097-69-1	PCB-1254	3.2		2.3	1.1
11096-82-5	PCB-1260	ND		2.3	1.1
37324-23-5	PCB-1262	ND		2.3	1.1
11100-14-4	PCB-1268	ND		2.3	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	92		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: WC-19-20 Lab Sample ID: 480-178191-21

Matrix: Solid Lab File ID: 7_84-349.D

Analysis Method: 8082A Date Collected: 11/12/2020 14:40

Extraction Method: 3550C Date Extracted: 11/22/2020 08:51

Sample wt/vol: 2.04(g) Date Analyzed: 11/30/2020 07:53

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		4.9	0.96
11104-28-2	PCB-1221	ND		4.9	0.96
11141-16-5	PCB-1232	ND		4.9	0.96
53469-21-9	PCB-1242	ND		4.9	0.96
12672-29-6	PCB-1248	ND		4.9	0.96
11097-69-1	PCB-1254	21		4.9	2.3
11096-82-5	PCB-1260	ND		4.9	2.3
37324-23-5	PCB-1262	ND		4.9	2.3
11100-14-4	PCB-1268	ND		4.9	2.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		60-154
2051-24-3	DCB Decachlorobiphenyl	32	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: FD-111220-3 Lab Sample ID: 480-178191-22

Matrix: Solid Lab File ID: 7_85-006.D

Analysis Method: 8082A Date Collected: 11/12/2020 00:00

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.32(g) Date Analyzed: 11/30/2020 14:41

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561247 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.1	0.21
11104-28-2	PCB-1221	ND		1.1	0.21
11141-16-5	PCB-1232	ND		1.1	0.21
53469-21-9	PCB-1242	ND		1.1	0.21
12672-29-6	PCB-1248	ND		1.1	0.21
11097-69-1	PCB-1254	15		1.1	0.50
11096-82-5	PCB-1260	ND		1.1	0.50
37324-23-5	PCB-1262	ND		1.1	0.50
11100-14-4	PCB-1268	ND		1.1	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	129		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-20-20 Lab Sample ID: 480-178191-23

Matrix: Solid Lab File ID: 6_078-115.D

Analysis Method: 8082A Date Collected: 11/12/2020 14:50

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.35(g) Date Analyzed: 11/29/2020 23:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	ND		0.21	0.042
11097-69-1	PCB-1254	1.4		0.21	0.10
11096-82-5	PCB-1260	ND		0.21	0.10
37324-23-5	PCB-1262	ND		0.21	0.10
11100-14-4	PCB-1268	ND		0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	87		60-154
2051-24-3	DCB Decachlorobiphenyl	175	X	65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: WC-21-20 Lab Sample ID: 480-178191-24

Matrix: Solid Lab File ID: 6_078-116.D

Analysis Method: 8082A Date Collected: 11/12/2020 14:55

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.12(g) Date Analyzed: 11/29/2020 23:58

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.4	0.46
11104-28-2	PCB-1221	ND		2.4	0.46
11141-16-5	PCB-1232	ND		2.4	0.46
53469-21-9	PCB-1242	ND		2.4	0.46
12672-29-6	PCB-1248	39	JN	2.4	0.46
11097-69-1	PCB-1254	20	JN	2.4	1.1
11096-82-5	PCB-1260	ND		2.4	1.1
37324-23-5	PCB-1262	ND		2.4	1.1
11100-14-4	PCB-1268	ND		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	65		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-22-20 Lab Sample ID: 480-178191-25

Matrix: Solid Lab File ID: 6_078-117.D

Analysis Method: 8082A Date Collected: 11/12/2020 15:10

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.51(g) Date Analyzed: 11/30/2020 00:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.039
11104-28-2	PCB-1221	ND		0.20	0.039
11141-16-5	PCB-1232	ND		0.20	0.039
53469-21-9	PCB-1242	ND		0.20	0.039
12672-29-6	PCB-1248	ND		0.20	0.039
11097-69-1	PCB-1254	ND		0.20	0.093
11096-82-5	PCB-1260	ND		0.20	0.093
37324-23-5	PCB-1262	ND		0.20	0.093
11100-14-4	PCB-1268	ND		0.20	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-23-20 Lab Sample ID: 480-178191-26

Matrix: Solid Lab File ID: 6_078-118.D

Analysis Method: 8082A Date Collected: 11/12/2020 15:25

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.43(g) Date Analyzed: 11/30/2020 00:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.040
11104-28-2	PCB-1221	ND		0.21	0.040
11141-16-5	PCB-1232	ND		0.21	0.040
53469-21-9	PCB-1242	ND		0.21	0.040
12672-29-6	PCB-1248	ND		0.21	0.040
11097-69-1	PCB-1254	0.21		0.21	0.096
11096-82-5	PCB-1260	ND		0.21	0.096
37324-23-5	PCB-1262	ND		0.21	0.096
11100-14-4	PCB-1268	ND		0.21	0.096

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-24-20 Lab Sample ID: 480-178191-27

Matrix: Solid Lab File ID: 6_078-119.D

Analysis Method: 8082A Date Collected: 11/12/2020 15:35

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.26(g) Date Analyzed: 11/30/2020 00:35

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.2	0.43
11104-28-2	PCB-1221	ND		2.2	0.43
11141-16-5	PCB-1232	ND		2.2	0.43
53469-21-9	PCB-1242	ND		2.2	0.43
12672-29-6	PCB-1248	ND		2.2	0.43
11097-69-1	PCB-1254	ND		2.2	1.0
11096-82-5	PCB-1260	ND		2.2	1.0
37324-23-5	PCB-1262	ND		2.2	1.0
11100-14-4	PCB-1268	ND		2.2	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	142		65-174

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: CC-25-20 Lab Sample ID: 480-178191-28

Matrix: Solid Lab File ID: 6_078-120.D

Analysis Method: 8082A Date Collected: 11/12/2020 15:45

Extraction Method: 3550C Date Extracted: 11/20/2020 07:24

Sample wt/vol: 2.58(g) Date Analyzed: 11/30/2020 00:48

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561244 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		1.9	0.38
11104-28-2	PCB-1221	ND		1.9	0.38
11141-16-5	PCB-1232	ND		1.9	0.38
53469-21-9	PCB-1242	ND		1.9	0.38
12672-29-6	PCB-1248	ND		1.9	0.38
11097-69-1	PCB-1254	ND		1.9	0.91
11096-82-5	PCB-1260	ND		1.9	0.91
37324-23-5	PCB-1262	ND		1.9	0.91
11100-14-4	PCB-1268	ND		1.9	0.91

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SF-35-20-0.8-1.8 | Lab Sample ID: 480-178050-8

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-177876-1

SDG ID.: 480-177876

Matrix: Solid | Date Sampled: 11/10/2020 11:20

Reporting Basis: DRY | Date Received: 11/11/2020 16:10

% Solids: 90.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5110	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.9	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	2.6	2.3	0.45	mg/Kg			1	6010C
7440-39-3	Barium	25.0	0.56	0.12	mg/Kg		^	1	6010C
7440-41-7	Beryllium	0.28	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	0.17	0.23	0.034	mg/Kg	J		1	6010C
7440-70-2	Calcium	68500	56.4	3.7	mg/Kg			1	6010C
7440-47-3	Chromium	9.0	0.56	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	2.9	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	8.2	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	8180	11.3	3.9	mg/Kg			1	6010C
7439-92-1	Lead	7.4	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	28600	22.6	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	232	0.23	0.036	mg/Kg			1	6010C
7440-02-0	Nickel	9.9	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1740	33.8	22.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	197	158	14.7	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	14.4	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	43.1	2.3	0.72	mg/Kg			1	6010C
7439-97-6	Hg	0.011	0.020	0.0080	mg/Kg	J		1	7471B

SDG

J179335

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Matrix: Water Lab File ID: P83343.D

Analysis Method: 624.1 Date Collected: 12/11/2020 13:00

Sample wt/vol: 5(mL) Date Analyzed: 12/18/2020 15:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 747739 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND	UJ	1.0	0.43
74-83-9	Bromomethane	ND	UJ	1.0	0.45
75-01-4	Vinyl chloride	ND	UJ	1.0	0.34
75-00-3	Ethyl Chloride	ND	UJ	1.0	0.32
75-09-2	Methylene Chloride	ND	UJ	1.0	0.32
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.14
75-35-4	1,1-Dichloroethene	ND	UJ	1.0	0.12
75-34-3	1,1-Dichloroethane	ND	UJ	1.0	0.26
156-60-5	trans-1,2-Dichloroethene	ND	UJ	1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND	UJ	1.0	0.22
67-66-3	Chloroform	ND	UJ	1.0	0.33
107-06-2	1,2-Dichloroethane	ND	UJ	1.0	0.84
71-55-6	1,1,1-Trichloroethane	ND	UJ	1.0	0.24
56-23-5	Carbon tetrachloride	ND	UJ	1.0	0.21
75-27-4	Bromodichloromethane	ND	UJ	1.0	0.34
78-87-5	1,2-Dichloropropane	ND	UJ	1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	1.0	0.46
79-01-6	Trichloroethene	ND	UJ	1.0	0.31
124-48-1	Dibromochloromethane	ND	UJ	1.0	0.13
79-00-5	1,1,2-Trichloroethane	ND	UJ	1.0	0.15
71-43-2	Benzene	ND	UJ	1.0	0.43
10061-02-6	trans-1,3-Dichloropropene	ND	UJ	1.0	0.22
110-75-8	2-Chloroethyl vinyl ether	ND	UJ	1.0	0.91
75-25-2	Bromoform	ND	UJ	1.0	0.54
127-18-4	Tetrachloroethene	ND	UJ	1.0	0.25
79-34-5	1,1,2,2-Tetrachloroethane	ND	UJ	1.0	0.37
108-88-3	Toluene	ND	UJ	1.0	0.38
108-90-7	Chlorobenzene	ND	UJ	1.0	0.38
100-41-4	Ethylbenzene	ND	UJ	1.0	0.30
1330-20-7	Xylenes, Total	ND	UJ	2.0	0.65
107-02-8	Acrolein	ND	UJ	4.0	1.1
107-13-1	Acrylonitrile	ND	UJ	2.0	0.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-2 Lab Sample ID: 480-179335-2

Matrix: Water Lab File ID: P83344.D

Analysis Method: 624.1 Date Collected: 12/11/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 12/18/2020 16:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 747739 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.45
75-01-4	Vinyl chloride	ND		1.0	0.34
75-00-3	Ethyl Chloride	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.32
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
75-34-3	1,1-Dichloroethane	ND	UJ	1.0	0.26
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
67-66-3	Chloroform	ND		1.0	0.33
107-06-2	1,2-Dichloroethane	ND		1.0	0.84
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
56-23-5	Carbon tetrachloride	ND		1.0	0.21
75-27-4	Bromodichloromethane	ND		1.0	0.34
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
79-01-6	Trichloroethene	ND		1.0	0.31
124-48-1	Dibromochloromethane	ND		1.0	0.13
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.15
71-43-2	Benzene	ND		1.0	0.43
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.22
110-75-8	2-Chloroethyl vinyl ether	ND		1.0	0.91
75-25-2	Bromoform	ND		1.0	0.54
127-18-4	Tetrachloroethene	ND		1.0	0.25
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
108-88-3	Toluene	ND		1.0	0.38
108-90-7	Chlorobenzene	ND		1.0	0.38
100-41-4	Ethylbenzene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		2.0	0.65
107-02-8	Acrolein	ND	UJ	4.0	1.1
107-13-1	Acrylonitrile	ND	UJ	2.0	0.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-3 Lab Sample ID: 480-179335-3

Matrix: Water Lab File ID: P83345.D

Analysis Method: 624.1 Date Collected: 12/11/2020 14:00

Sample wt/vol: 5(mL) Date Analyzed: 12/18/2020 16:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 747739 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.45
75-01-4	Vinyl chloride	ND		1.0	0.34
75-00-3	Ethyl Chloride	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.32
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
75-34-3	1,1-Dichloroethane	ND	UJ	1.0	0.26
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
67-66-3	Chloroform	ND		1.0	0.33
107-06-2	1,2-Dichloroethane	ND		1.0	0.84
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
56-23-5	Carbon tetrachloride	ND		1.0	0.21
75-27-4	Bromodichloromethane	ND		1.0	0.34
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
79-01-6	Trichloroethene	ND		1.0	0.31
124-48-1	Dibromochloromethane	ND		1.0	0.13
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.15
71-43-2	Benzene	ND		1.0	0.43
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.22
110-75-8	2-Chloroethyl vinyl ether	ND		1.0	0.91
75-25-2	Bromoform	ND		1.0	0.54
127-18-4	Tetrachloroethene	ND		1.0	0.25
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
108-88-3	Toluene	ND		1.0	0.38
108-90-7	Chlorobenzene	ND		1.0	0.38
100-41-4	Ethylbenzene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		2.0	0.65
107-02-8	Acrolein	ND	UJ	4.0	1.1
107-13-1	Acrylonitrile	ND	UJ	2.0	0.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-4 Lab Sample ID: 480-179335-4

Matrix: Water Lab File ID: P83346.D

Analysis Method: 624.1 Date Collected: 12/11/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 12/18/2020 17:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 747739 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.45
75-01-4	Vinyl chloride	ND		1.0	0.34
75-00-3	Ethyl Chloride	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.32
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
75-34-3	1,1-Dichloroethane	ND	UJ	1.0	0.26
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
67-66-3	Chloroform	ND		1.0	0.33
107-06-2	1,2-Dichloroethane	ND		1.0	0.84
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
56-23-5	Carbon tetrachloride	ND		1.0	0.21
75-27-4	Bromodichloromethane	ND		1.0	0.34
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
79-01-6	Trichloroethene	ND		1.0	0.31
124-48-1	Dibromochloromethane	ND		1.0	0.13
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.15
71-43-2	Benzene	ND		1.0	0.43
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.22
110-75-8	2-Chloroethyl vinyl ether	ND		1.0	0.91
75-25-2	Bromoform	ND		1.0	0.54
127-18-4	Tetrachloroethene	ND		1.0	0.25
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
108-88-3	Toluene	ND		1.0	0.38
108-90-7	Chlorobenzene	ND		1.0	0.38
100-41-4	Ethylbenzene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		2.0	0.65
107-02-8	Acrolein	ND	UJ	4.0	1.1
107-13-1	Acrylonitrile	ND	UJ	2.0	0.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-5 Lab Sample ID: 480-179335-5

Matrix: Water Lab File ID: P83347.D

Analysis Method: 624.1 Date Collected: 12/11/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 12/18/2020 17:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 747739 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.45
75-01-4	Vinyl chloride	ND		1.0	0.34
75-00-3	Ethyl Chloride	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.32
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
75-34-3	1,1-Dichloroethane	ND	UJ	1.0	0.26
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
67-66-3	Chloroform	ND		1.0	0.33
107-06-2	1,2-Dichloroethane	ND		1.0	0.84
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
56-23-5	Carbon tetrachloride	ND		1.0	0.21
75-27-4	Bromodichloromethane	ND		1.0	0.34
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
79-01-6	Trichloroethene	ND		1.0	0.31
124-48-1	Dibromochloromethane	ND		1.0	0.13
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.15
71-43-2	Benzene	ND		1.0	0.43
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.22
110-75-8	2-Chloroethyl vinyl ether	ND		1.0	0.91
75-25-2	Bromoform	ND		1.0	0.54
127-18-4	Tetrachloroethene	ND		1.0	0.25
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
108-88-3	Toluene	ND		1.0	0.38
108-90-7	Chlorobenzene	ND		1.0	0.38
100-41-4	Ethylbenzene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		2.0	0.65
107-02-8	Acrolein	ND	UJ	4.0	1.1
107-13-1	Acrylonitrile	ND	UJ	2.0	0.77

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-1 | Lab Sample ID: 480-179335-1

Matrix: Water | Lab File ID: X21472036.D

Analysis Method: 625.1 | Date Collected: 12/11/2020 13:00

Extract. Method: 625 | Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) | Date Analyzed: 12/18/2020 17:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		50	4.1
95-50-1	1,2-Dichlorobenzene	ND		50	25
122-66-7	1,2-Diphenylhydrazine	ND		50	3.9
541-73-1	1,3-Dichlorobenzene	ND		50	3.5
106-46-7	1,4-Dichlorobenzene	ND		50	28
108-60-1	2,2'-oxybis[1-chloropropane]	ND		25	4.2
88-06-2	2,4,6-Trichlorophenol	ND		25	5.0
120-83-2	2,4-Dichlorophenol	ND		25	3.9
105-67-9	2,4-Dimethylphenol	ND		25	7.0
51-28-5	2,4-Dinitrophenol	ND		50	25
121-14-2	2,4-Dinitrotoluene	ND		50	25
606-20-2	2,6-Dinitrotoluene	ND		25	5.0
91-58-7	2-Chloronaphthalene	ND		25	4.6
95-57-8	2-Chlorophenol	ND		25	3.3
88-75-5	2-Nitrophenol	ND		25	3.5
91-94-1	3,3'-Dichlorobenzidine	ND		25	4.1
534-52-1	4,6-Dinitro-2-methylphenol	ND		50	3.3
101-55-3	4-Bromophenyl phenyl ether	ND		25	7.0
59-50-7	4-Chloro-3-methylphenol	ND		25	5.5
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	6.5
100-02-7	4-Nitrophenol	ND		75	50
83-32-9	Acenaphthene	ND		25	4.1
208-96-8	Acenaphthylene	ND		25	4.4
120-12-7	Anthracene	ND		25	7.0
92-87-5	Benzidine	ND		400	180
56-55-3	Benzo[a]anthracene	15	J	25	5.5
50-32-8	Benzo[a]pyrene	18	J	25	6.5
205-99-2	Benzo[b]fluoranthene	27		25	6.0
191-24-2	Benzo[g,h,i]perylene	11	J	25	7.5
207-08-9	Benzo[k]fluoranthene	11	J	25	6.5
111-91-1	Bis(2-chloroethoxy)methane	ND		25	3.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	4.7
117-81-7	Bis(2-ethylhexyl) phthalate	ND		50	6.0
85-68-7	Butyl benzyl phthalate	ND		25	5.5

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Matrix: Water Lab File ID: X21472036.D

Analysis Method: 625.1 Date Collected: 12/11/2020 13:00

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 17:50

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
218-01-9	Chrysene	21	J	25	5.0
53-70-3	Dibenz(a,h)anthracene	ND		25	7.5
84-66-2	Diethyl phthalate	ND		25	5.0
131-11-3	Dimethyl phthalate	ND		25	4.6
84-74-2	Di-n-butyl phthalate	ND		25	8.0
117-84-0	Di-n-octyl phthalate	ND		25	6.0
206-44-0	Fluoranthene	35		25	8.0
86-73-7	Fluorene	ND		25	5.0
118-74-1	Hexachlorobenzene	ND		25	5.0
87-68-3	Hexachlorobutadiene	ND		25	5.0
77-47-4	Hexachlorocyclopentadiene	ND		50	25
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno[1,2,3-cd]pyrene	9.4	J	25	7.5
78-59-1	Isophorone	ND		25	3.7
91-20-3	Naphthalene	ND		25	4.3
98-95-3	Nitrobenzene	ND		25	4.1
62-75-9	N-Nitrosodimethylamine	ND		50	25
621-64-7	N-Nitrosodi-n-propylamine	ND		25	4.5
86-30-6	N-Nitrosodiphenylamine	ND		25	2.0
87-86-5	Pentachlorophenol	ND		50	8.0
85-01-8	Phenanthrene	23	J	25	6.0
108-95-2	Phenol	ND		25	1.8
129-00-0	Pyrene	25		25	7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	105		52-151
321-60-8	2-Fluorobiphenyl	107		44-120
367-12-4	2-Fluorophenol	47		17-120
4165-60-0	Nitrobenzene-d5	95		15-314
4165-62-2	Phenol-d5	30		8-424
1718-51-0	p-Terphenyl-d14 (Surr)	80		22-125

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-2 Lab Sample ID: 480-179335-2

Matrix: Water Lab File ID: X21472037.D

Analysis Method: 625.1 Date Collected: 12/11/2020 13:30

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 18:14

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		10	0.82
95-50-1	1,2-Dichlorobenzene	ND		10	5.0
122-66-7	1,2-Diphenylhydrazine	ND		10	0.78
541-73-1	1,3-Dichlorobenzene	ND		10	0.69
106-46-7	1,4-Dichlorobenzene	ND		10	5.6
108-60-1	2,2'-oxybis[1-chloropropane]	ND		5.0	0.84
88-06-2	2,4,6-Trichlorophenol	ND		5.0	1.0
120-83-2	2,4-Dichlorophenol	ND		5.0	0.77
105-67-9	2,4-Dimethylphenol	ND		5.0	1.4
51-28-5	2,4-Dinitrophenol	ND		10	5.0
121-14-2	2,4-Dinitrotoluene	ND		10	5.0
606-20-2	2,6-Dinitrotoluene	ND		5.0	1.0
91-58-7	2-Chloronaphthalene	ND		5.0	0.91
95-57-8	2-Chlorophenol	ND		5.0	0.66
88-75-5	2-Nitrophenol	ND		5.0	0.70
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.82
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	0.66
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	1.4
59-50-7	4-Chloro-3-methylphenol	ND		5.0	1.1
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	1.3
100-02-7	4-Nitrophenol	ND		15	10
83-32-9	Acenaphthene	ND		5.0	0.81
208-96-8	Acenaphthylene	ND		5.0	0.87
120-12-7	Anthracene	ND		5.0	1.4
92-87-5	Benzidine	ND		80	35
56-55-3	Benzo[a]anthracene	ND		5.0	1.1
50-32-8	Benzo[a]pyrene	ND		5.0	1.3
205-99-2	Benzo[b]fluoranthene	ND		5.0	1.2
191-24-2	Benzo[g,h,i]perylene	ND		5.0	1.5
207-08-9	Benzo[k]fluoranthene	ND		5.0	1.3
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.75
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.93
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10	1.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.1

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-2 Lab Sample ID: 480-179335-2

Matrix: Water Lab File ID: X21472037.D

Analysis Method: 625.1 Date Collected: 12/11/2020 13:30

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 18:14

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
218-01-9	Chrysene	ND		5.0	1.0
53-70-3	Dibenz(a,h)anthracene	ND		5.0	1.5
84-66-2	Diethyl phthalate	ND		5.0	1.0
131-11-3	Dimethyl phthalate	ND		5.0	0.91
84-74-2	Di-n-butyl phthalate	ND		5.0	1.6
117-84-0	Di-n-octyl phthalate	ND		5.0	1.2
206-44-0	Fluoranthene	ND		5.0	1.6
86-73-7	Fluorene	ND		5.0	1.0
118-74-1	Hexachlorobenzene	ND		5.0	1.0
87-68-3	Hexachlorobutadiene	ND		5.0	1.0
77-47-4	Hexachlorocyclopentadiene	ND		10	5.0
67-72-1	Hexachloroethane	ND		5.0	0.60
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	1.5
78-59-1	Isophorone	ND		5.0	0.74
91-20-3	Naphthalene	ND		5.0	0.86
98-95-3	Nitrobenzene	ND		5.0	0.81
62-75-9	N-Nitrosodimethylamine	ND		10	5.0
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.89
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.40
87-86-5	Pentachlorophenol	ND		10	1.6
85-01-8	Phenanthrene	ND		5.0	1.2
108-95-2	Phenol	ND		5.0	0.35
129-00-0	Pyrene	ND		5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	102		52-151
321-60-8	2-Fluorobiphenyl	93		44-120
367-12-4	2-Fluorophenol	60		17-120
4165-60-0	Nitrobenzene-d5	80		15-314
4165-62-2	Phenol-d5	32		8-424
1718-51-0	p-Terphenyl-d14 (Surr)	94		22-125

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-3 Lab Sample ID: 480-179335-3

Matrix: Water Lab File ID: X21472038.D

Analysis Method: 625.1 Date Collected: 12/11/2020 14:00

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 18:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		10	0.82
95-50-1	1,2-Dichlorobenzene	ND		10	5.0
122-66-7	1,2-Diphenylhydrazine	ND		10	0.78
541-73-1	1,3-Dichlorobenzene	ND		10	0.69
106-46-7	1,4-Dichlorobenzene	ND		10	5.6
108-60-1	2,2'-oxybis[1-chloropropane]	ND		5.0	0.84
88-06-2	2,4,6-Trichlorophenol	ND		5.0	1.0
120-83-2	2,4-Dichlorophenol	ND		5.0	0.77
105-67-9	2,4-Dimethylphenol	ND		5.0	1.4
51-28-5	2,4-Dinitrophenol	ND		10	5.0
121-14-2	2,4-Dinitrotoluene	ND		10	5.0
606-20-2	2,6-Dinitrotoluene	ND		5.0	1.0
91-58-7	2-Chloronaphthalene	ND		5.0	0.91
95-57-8	2-Chlorophenol	ND		5.0	0.66
88-75-5	2-Nitrophenol	ND		5.0	0.70
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.82
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	0.66
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	1.4
59-50-7	4-Chloro-3-methylphenol	ND		5.0	1.1
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	1.3
100-02-7	4-Nitrophenol	ND		15	10
83-32-9	Acenaphthene	ND		5.0	0.81
208-96-8	Acenaphthylene	ND		5.0	0.87
120-12-7	Anthracene	ND		5.0	1.4
92-87-5	Benzidine	ND		80	35
56-55-3	Benzo[a]anthracene	ND		5.0	1.1
50-32-8	Benzo[a]pyrene	ND		5.0	1.3
205-99-2	Benzo[b]fluoranthene	ND		5.0	1.2
191-24-2	Benzo[g,h,i]perylene	ND		5.0	1.5
207-08-9	Benzo[k]fluoranthene	ND		5.0	1.3
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.75
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.93
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10	1.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.1

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-3 Lab Sample ID: 480-179335-3

Matrix: Water Lab File ID: X21472038.D

Analysis Method: 625.1 Date Collected: 12/11/2020 14:00

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 18:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
218-01-9	Chrysene	ND		5.0	1.0
53-70-3	Dibenz(a,h)anthracene	ND		5.0	1.5
84-66-2	Diethyl phthalate	ND		5.0	1.0
131-11-3	Dimethyl phthalate	ND		5.0	0.91
84-74-2	Di-n-butyl phthalate	ND		5.0	1.6
117-84-0	Di-n-octyl phthalate	ND		5.0	1.2
206-44-0	Fluoranthene	ND		5.0	1.6
86-73-7	Fluorene	ND		5.0	1.0
118-74-1	Hexachlorobenzene	ND		5.0	1.0
87-68-3	Hexachlorobutadiene	ND		5.0	1.0
77-47-4	Hexachlorocyclopentadiene	ND		10	5.0
67-72-1	Hexachloroethane	ND		5.0	0.60
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	1.5
78-59-1	Isophorone	ND		5.0	0.74
91-20-3	Naphthalene	ND		5.0	0.86
98-95-3	Nitrobenzene	ND		5.0	0.81
62-75-9	N-Nitrosodimethylamine	ND		10	5.0
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.89
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.40
87-86-5	Pentachlorophenol	ND		10	1.6
85-01-8	Phenanthrene	ND		5.0	1.2
108-95-2	Phenol	ND		5.0	0.35
129-00-0	Pyrene	ND		5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	100		52-151
321-60-8	2-Fluorobiphenyl	93		44-120
367-12-4	2-Fluorophenol	35		17-120
4165-60-0	Nitrobenzene-d5	114		15-314
4165-62-2	Phenol-d5	31		8-424
1718-51-0	p-Terphenyl-d14 (Surr)	94		22-125

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-4 | Lab Sample ID: 480-179335-4

Matrix: Water | Lab File ID: X21472039.D

Analysis Method: 625.1 | Date Collected: 12/11/2020 14:30

Extract. Method: 625 | Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) | Date Analyzed: 12/18/2020 19:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		10	0.82
95-50-1	1,2-Dichlorobenzene	ND		10	5.0
122-66-7	1,2-Diphenylhydrazine	ND		10	0.78
541-73-1	1,3-Dichlorobenzene	ND		10	0.69
106-46-7	1,4-Dichlorobenzene	ND		10	5.6
108-60-1	2,2'-oxybis[1-chloropropane]	ND		5.0	0.84
88-06-2	2,4,6-Trichlorophenol	ND		5.0	1.0
120-83-2	2,4-Dichlorophenol	ND		5.0	0.77
105-67-9	2,4-Dimethylphenol	ND		5.0	1.4
51-28-5	2,4-Dinitrophenol	ND		10	5.0
121-14-2	2,4-Dinitrotoluene	ND		10	5.0
606-20-2	2,6-Dinitrotoluene	ND		5.0	1.0
91-58-7	2-Chloronaphthalene	ND		5.0	0.91
95-57-8	2-Chlorophenol	ND		5.0	0.66
88-75-5	2-Nitrophenol	ND		5.0	0.70
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.82
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	0.66
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	1.4
59-50-7	4-Chloro-3-methylphenol	ND		5.0	1.1
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	1.3
100-02-7	4-Nitrophenol	ND		15	10
83-32-9	Acenaphthene	ND		5.0	0.81
208-96-8	Acenaphthylene	ND		5.0	0.87
120-12-7	Anthracene	ND		5.0	1.4
92-87-5	Benzidine	ND		80	35
56-55-3	Benzo[a]anthracene	ND		5.0	1.1
50-32-8	Benzo[a]pyrene	ND		5.0	1.3
205-99-2	Benzo[b]fluoranthene	ND		5.0	1.2
191-24-2	Benzo[g,h,i]perylene	ND		5.0	1.5
207-08-9	Benzo[k]fluoranthene	ND		5.0	1.3
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.75
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.93
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10	1.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.1

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-4 Lab Sample ID: 480-179335-4

Matrix: Water Lab File ID: X21472039.D

Analysis Method: 625.1 Date Collected: 12/11/2020 14:30

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 19:03

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
218-01-9	Chrysene	ND		5.0	1.0
53-70-3	Dibenz(a,h)anthracene	ND		5.0	1.5
84-66-2	Diethyl phthalate	ND		5.0	1.0
131-11-3	Dimethyl phthalate	ND		5.0	0.91
84-74-2	Di-n-butyl phthalate	ND		5.0	1.6
117-84-0	Di-n-octyl phthalate	ND		5.0	1.2
206-44-0	Fluoranthene	ND		5.0	1.6
86-73-7	Fluorene	ND		5.0	1.0
118-74-1	Hexachlorobenzene	ND		5.0	1.0
87-68-3	Hexachlorobutadiene	ND		5.0	1.0
77-47-4	Hexachlorocyclopentadiene	ND		10	5.0
67-72-1	Hexachloroethane	ND		5.0	0.60
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	1.5
78-59-1	Isophorone	ND		5.0	0.74
91-20-3	Naphthalene	ND		5.0	0.86
98-95-3	Nitrobenzene	ND		5.0	0.81
62-75-9	N-Nitrosodimethylamine	ND		10	5.0
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.89
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.40
87-86-5	Pentachlorophenol	ND		10	1.6
85-01-8	Phenanthrene	ND		5.0	1.2
108-95-2	Phenol	ND		5.0	0.35
129-00-0	Pyrene	ND		5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	105		52-151
321-60-8	2-Fluorobiphenyl	93		44-120
367-12-4	2-Fluorophenol	63		17-120
4165-60-0	Nitrobenzene-d5	91		15-314
4165-62-2	Phenol-d5	33		8-424
1718-51-0	p-Terphenyl-d14 (Surr)	100		22-125

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-5 Lab Sample ID: 480-179335-5

Matrix: Water Lab File ID: X21472040.D

Analysis Method: 625.1 Date Collected: 12/11/2020 15:00

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 19:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		10	0.82
95-50-1	1,2-Dichlorobenzene	ND		10	5.0
122-66-7	1,2-Diphenylhydrazine	ND		10	0.78
541-73-1	1,3-Dichlorobenzene	ND		10	0.69
106-46-7	1,4-Dichlorobenzene	ND		10	5.6
108-60-1	2,2'-oxybis[1-chloropropane]	ND		5.0	0.84
88-06-2	2,4,6-Trichlorophenol	ND		5.0	1.0
120-83-2	2,4-Dichlorophenol	ND		5.0	0.77
105-67-9	2,4-Dimethylphenol	ND		5.0	1.4
51-28-5	2,4-Dinitrophenol	ND		10	5.0
121-14-2	2,4-Dinitrotoluene	ND		10	5.0
606-20-2	2,6-Dinitrotoluene	ND		5.0	1.0
91-58-7	2-Chloronaphthalene	ND		5.0	0.91
95-57-8	2-Chlorophenol	ND		5.0	0.66
88-75-5	2-Nitrophenol	ND		5.0	0.70
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.82
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	0.66
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	1.4
59-50-7	4-Chloro-3-methylphenol	ND		5.0	1.1
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	1.3
100-02-7	4-Nitrophenol	ND		15	10
83-32-9	Acenaphthene	ND		5.0	0.81
208-96-8	Acenaphthylene	ND		5.0	0.87
120-12-7	Anthracene	ND		5.0	1.4
92-87-5	Benzidine	ND		80	35
56-55-3	Benzo[a]anthracene	ND		5.0	1.1
50-32-8	Benzo[a]pyrene	ND		5.0	1.3
205-99-2	Benzo[b]fluoranthene	ND		5.0	1.2
191-24-2	Benzo[g,h,i]perylene	ND		5.0	1.5
207-08-9	Benzo[k]fluoranthene	ND		5.0	1.3
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.75
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.93
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10	1.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.1

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-5 Lab Sample ID: 480-179335-5

Matrix: Water Lab File ID: X21472040.D

Analysis Method: 625.1 Date Collected: 12/11/2020 15:00

Extract. Method: 625 Date Extracted: 12/15/2020 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 12/18/2020 19:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563837 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
218-01-9	Chrysene	ND		5.0	1.0
53-70-3	Dibenz(a,h)anthracene	ND		5.0	1.5
84-66-2	Diethyl phthalate	ND		5.0	1.0
131-11-3	Dimethyl phthalate	ND		5.0	0.91
84-74-2	Di-n-butyl phthalate	ND		5.0	1.6
117-84-0	Di-n-octyl phthalate	ND		5.0	1.2
206-44-0	Fluoranthene	ND		5.0	1.6
86-73-7	Fluorene	ND		5.0	1.0
118-74-1	Hexachlorobenzene	ND		5.0	1.0
87-68-3	Hexachlorobutadiene	ND		5.0	1.0
77-47-4	Hexachlorocyclopentadiene	ND		10	5.0
67-72-1	Hexachloroethane	ND		5.0	0.60
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	1.5
78-59-1	Isophorone	ND		5.0	0.74
91-20-3	Naphthalene	ND		5.0	0.86
98-95-3	Nitrobenzene	ND		5.0	0.81
62-75-9	N-Nitrosodimethylamine	ND		10	5.0
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.89
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.40
87-86-5	Pentachlorophenol	ND		10	1.6
85-01-8	Phenanthrene	ND		5.0	1.2
108-95-2	Phenol	ND		5.0	0.35
129-00-0	Pyrene	ND		5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	106		52-151
321-60-8	2-Fluorobiphenyl	93		44-120
367-12-4	2-Fluorophenol	64		17-120
4165-60-0	Nitrobenzene-d5	86		15-314
4165-62-2	Phenol-d5	31		8-424
1718-51-0	p-Terphenyl-d14 (Surr)	94		22-125

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Matrix: Water Lab File ID: 25_41-281.D

Analysis Method: 608.3 Date Collected: 12/11/2020 13:00

Extraction Method: 3510C Date Extracted: 12/15/2020 09:20

Sample wt/vol: 960(mL) Date Analyzed: 12/16/2020 11:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563419 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	ND		0.052	0.0084
319-84-6	alpha-BHC	ND		0.052	0.0080
319-85-7	beta-BHC	ND		0.052	0.026
319-86-8	delta-BHC	ND		0.052	0.010
58-89-9	gamma-BHC (Lindane)	ND		0.052	0.0083
12789-03-6	Chlordane (technical)	ND		0.52	0.30
72-54-8	4,4'-DDD	ND		0.052	0.0096
72-55-9	4,4'-DDE	0.013	J	0.052	0.012
50-29-3	4,4'-DDT	ND		0.052	0.011
60-57-1	Dieldrin	ND		0.052	0.010
959-98-8	Endosulfan I	ND		0.052	0.011
33213-65-9	Endosulfan II	ND		0.052	0.013
1031-07-8	Endosulfan sulfate	ND		0.052	0.016
72-20-8	Endrin	ND		0.052	0.014
7421-93-4	Endrin aldehyde	ND		0.052	0.017
76-44-8	Heptachlor	ND		0.052	0.0089
1024-57-3	Heptachlor epoxide	ND		0.052	0.0077
8001-35-2	Toxaphene	ND		0.52	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	49		23-120
877-09-8	Tetrachloro-m-xylene	110		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-2 Lab Sample ID: 480-179335-2

Matrix: Water Lab File ID: 25_41-282.D

Analysis Method: 608.3 Date Collected: 12/11/2020 13:30

Extraction Method: 3510C Date Extracted: 12/15/2020 09:20

Sample wt/vol: 1000(mL) Date Analyzed: 12/16/2020 11:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563419 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	ND		0.050	0.0081
319-84-6	alpha-BHC	ND		0.050	0.0077
319-85-7	beta-BHC	ND		0.050	0.025
319-86-8	delta-BHC	ND		0.050	0.010
58-89-9	gamma-BHC (Lindane)	ND		0.050	0.0080
12789-03-6	Chlordane (technical)	ND		0.50	0.29
72-54-8	4,4'-DDD	ND		0.050	0.0092
72-55-9	4,4'-DDE	ND		0.050	0.012
50-29-3	4,4'-DDT	ND		0.050	0.011
60-57-1	Dieldrin	ND		0.050	0.0098
959-98-8	Endosulfan I	ND		0.050	0.011
33213-65-9	Endosulfan II	ND		0.050	0.012
1031-07-8	Endosulfan sulfate	ND		0.050	0.016
72-20-8	Endrin	ND		0.050	0.014
7421-93-4	Endrin aldehyde	ND		0.050	0.016
76-44-8	Heptachlor	ND		0.050	0.0085
1024-57-3	Heptachlor epoxide	ND		0.050	0.0074
8001-35-2	Toxaphene	ND		0.50	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	44		23-120
877-09-8	Tetrachloro-m-xylene	105		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-3 Lab Sample ID: 480-179335-3

Matrix: Water Lab File ID: 25_41-283.D

Analysis Method: 608.3 Date Collected: 12/11/2020 14:00

Extraction Method: 3510C Date Extracted: 12/15/2020 09:20

Sample wt/vol: 970(mL) Date Analyzed: 12/16/2020 11:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563419 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	ND		0.052	0.0084
319-84-6	alpha-BHC	ND		0.052	0.0079
319-85-7	beta-BHC	0.033	J	0.052	0.026
319-86-8	delta-BHC	ND		0.052	0.052
58-89-9	gamma-BHC (Lindane)	ND		0.052	0.0082
12789-03-6	Chlordane (technical)	ND		0.52	0.30
72-54-8	4,4'-DDD	ND		0.052	0.0095
72-55-9	4,4'-DDE	ND		0.052	0.012
50-29-3	4,4'-DDT	0.018	J	0.052	0.011
60-57-1	Dieldrin	ND		0.052	0.010
959-98-8	Endosulfan I	ND		0.052	0.011
33213-65-9	Endosulfan II	ND		0.052	0.012
1031-07-8	Endosulfan sulfate	ND		0.052	0.016
72-20-8	Endrin	ND		0.052	0.014
7421-93-4	Endrin aldehyde	ND		0.052	0.017
76-44-8	Heptachlor	ND		0.052	0.0088
1024-57-3	Heptachlor epoxide	ND		0.052	0.0076
8001-35-2	Toxaphene	ND		0.52	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	57		23-120
877-09-8	Tetrachloro-m-xylene	119		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-4 Lab Sample ID: 480-179335-4

Matrix: Water Lab File ID: 25_41-284.D

Analysis Method: 608.3 Date Collected: 12/11/2020 14:30

Extraction Method: 3510C Date Extracted: 12/15/2020 09:20

Sample wt/vol: 990(mL) Date Analyzed: 12/16/2020 12:18

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563419 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	ND		0.051	0.0082
319-84-6	alpha-BHC	ND		0.051	0.0078
319-85-7	beta-BHC	ND		0.051	0.025
319-86-8	delta-BHC	ND		0.051	0.010
58-89-9	gamma-BHC (Lindane)	ND		0.051	0.0081
12789-03-6	Chlordane (technical)	ND		0.51	0.29
72-54-8	4,4'-DDD	ND		0.051	0.0093
72-55-9	4,4'-DDE	ND		0.051	0.012
50-29-3	4,4'-DDT	ND		0.051	0.011
60-57-1	Dieldrin	ND		0.051	0.0099
959-98-8	Endosulfan I	ND		0.051	0.011
33213-65-9	Endosulfan II	ND		0.051	0.012
1031-07-8	Endosulfan sulfate	ND		0.051	0.016
72-20-8	Endrin	ND		0.051	0.014
7421-93-4	Endrin aldehyde	ND		0.051	0.016
76-44-8	Heptachlor	ND		0.051	0.0086
1024-57-3	Heptachlor epoxide	ND		0.051	0.0075
8001-35-2	Toxaphene	ND		0.51	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	48		23-120
877-09-8	Tetrachloro-m-xylene	114		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-5 Lab Sample ID: 480-179335-5

Matrix: Water Lab File ID: 25_41-285.D

Analysis Method: 608.3 Date Collected: 12/11/2020 15:00

Extraction Method: 3510C Date Extracted: 12/15/2020 09:20

Sample wt/vol: 970(mL) Date Analyzed: 12/16/2020 12:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563419 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	ND		0.052	0.0084
319-84-6	alpha-BHC	ND		0.052	0.0079
319-85-7	beta-BHC	ND		0.052	0.026
319-86-8	delta-BHC	ND		0.052	0.010
58-89-9	gamma-BHC (Lindane)	ND		0.052	0.0082
12789-03-6	Chlordane (technical)	ND		0.52	0.30
72-54-8	4,4'-DDD	ND		0.052	0.0095
72-55-9	4,4'-DDE	ND		0.052	0.012
50-29-3	4,4'-DDT	ND		0.052	0.011
60-57-1	Dieldrin	ND		0.052	0.010
959-98-8	Endosulfan I	ND		0.052	0.011
33213-65-9	Endosulfan II	ND		0.052	0.012
1031-07-8	Endosulfan sulfate	ND		0.052	0.016
72-20-8	Endrin	ND		0.052	0.014
7421-93-4	Endrin aldehyde	ND		0.052	0.017
76-44-8	Heptachlor	ND		0.052	0.0088
1024-57-3	Heptachlor epoxide	ND		0.052	0.0076
8001-35-2	Toxaphene	ND		0.52	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	43		23-120
877-09-8	Tetrachloro-m-xylene	106		44-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Matrix: Water Lab File ID: 6_079-121.D

Analysis Method: 608.3 Date Collected: 12/11/2020 13:00

Extraction Method: 3510C Date Extracted: 12/16/2020 15:06

Sample wt/vol: 1000(mL) Date Analyzed: 12/20/2020 21:43

Con. Extract Vol.: 2(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563959 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.60	0.38
11104-28-2	PCB-1221	ND		0.60	0.38
11141-16-5	PCB-1232	ND		0.60	0.38
53469-21-9	PCB-1242	ND		0.60	0.38
12672-29-6	PCB-1248	ND		0.60	0.38
11097-69-1	PCB-1254	15	J	0.60	0.31
11096-82-5	PCB-1260	ND		0.60	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	32	S1-	36-121
877-09-8	Tetrachloro-m-xylene (Surr)	87		42-135

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-2 Lab Sample ID: 480-179335-2

Matrix: Water Lab File ID: 6_079-124.D

Analysis Method: 608.3 Date Collected: 12/11/2020 13:30

Extraction Method: 3510C Date Extracted: 12/16/2020 15:06

Sample wt/vol: 1000(mL) Date Analyzed: 12/20/2020 22:20

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563959 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.060	0.038
11104-28-2	PCB-1221	ND		0.060	0.038
11141-16-5	PCB-1232	ND		0.060	0.038
53469-21-9	PCB-1242	ND		0.060	0.038
12672-29-6	PCB-1248	ND		0.060	0.038
11097-69-1	PCB-1254	ND		0.060	0.031
11096-82-5	PCB-1260	ND		0.060	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	48		36-121
877-09-8	Tetrachloro-m-xylene (Surr)	90		42-135

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-3 Lab Sample ID: 480-179335-3

Matrix: Water Lab File ID: 6_079-187.D

Analysis Method: 608.3 Date Collected: 12/11/2020 14:00

Extraction Method: 3510C Date Extracted: 12/16/2020 15:06

Sample wt/vol: 1000(mL) Date Analyzed: 12/21/2020 18:17

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 564106 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.060	0.038
11104-28-2	PCB-1221	ND		0.060	0.038
11141-16-5	PCB-1232	ND		0.060	0.038
53469-21-9	PCB-1242	ND		0.060	0.038
12672-29-6	PCB-1248	ND		0.060	0.038
11097-69-1	PCB-1254	ND		0.060	0.031
11096-82-5	PCB-1260	ND		0.060	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	37		36-121
877-09-8	Tetrachloro-m-xylene (Surr)	55		42-135

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-4 Lab Sample ID: 480-179335-4

Matrix: Water Lab File ID: 6_079-126.D

Analysis Method: 608.3 Date Collected: 12/11/2020 14:30

Extraction Method: 3510C Date Extracted: 12/16/2020 15:06

Sample wt/vol: 1000(mL) Date Analyzed: 12/20/2020 22:45

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563959 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.060	0.038
11104-28-2	PCB-1221	ND		0.060	0.038
11141-16-5	PCB-1232	ND		0.060	0.038
53469-21-9	PCB-1242	ND		0.060	0.038
12672-29-6	PCB-1248	ND		0.060	0.038
11097-69-1	PCB-1254	0.066	J	0.060	0.031
11096-82-5	PCB-1260	ND		0.060	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	56		36-121
877-09-8	Tetrachloro-m-xylene (Surr)	100		42-135

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-5 Lab Sample ID: 480-179335-5

Matrix: Water Lab File ID: 6_079-127.D

Analysis Method: 608.3 Date Collected: 12/11/2020 15:00

Extraction Method: 3510C Date Extracted: 12/16/2020 15:06

Sample wt/vol: 1000(mL) Date Analyzed: 12/20/2020 22:57

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563959 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.060	0.038
11104-28-2	PCB-1221	ND		0.060	0.038
11141-16-5	PCB-1232	ND		0.060	0.038
53469-21-9	PCB-1242	ND		0.060	0.038
12672-29-6	PCB-1248	ND		0.060	0.038
11097-69-1	PCB-1254	0.056	J	0.060	0.031
11096-82-5	PCB-1260	ND		0.060	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	59		36-121
877-09-8	Tetrachloro-m-xylene (Surr)	107		42-135

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG ID.:

Matrix: Water Date Sampled: 12/11/2020 13:00

Reporting Basis: WET Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.6	1.0	0.35	ug/L			1	200.8
7440-38-2	Arsenic	1.6	1.0	0.27	ug/L			1	200.8
7440-41-7	Beryllium	0.090	0.70	0.030	ug/L	J		1	200.8
7440-43-9	Cadmium	1.5	0.50	0.071	ug/L			1	200.8
7440-47-3	Chromium	11.9	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	61.4	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	68.3	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	15.3	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	0.20	0.50	0.036	ug/L	J		1	200.8
7440-28-0	Thallium	0.044	0.20	0.019	ug/L	J		1	200.8
7440-66-6	Zinc	218	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG ID.:

Matrix: Water Date Sampled: 12/11/2020 13:00

Reporting Basis: WET Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.3	1.0	0.35	ug/L			1	200.8
7440-38-2	Arsenic	0.61	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	0.076	0.50	0.071	ug/L	J		1	200.8
7440-47-3	Chromium	0.68	1.5	0.36	ug/L	J		1	200.8
7440-50-8	Copper	14.2	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	0.25	1.0	0.17	ug/L	J		1	200.8
7440-02-0	Nickel	1.7	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	0.025	0.20	0.019	ug/L	J		1	200.8
7440-66-6	Zinc	12.3	20.0	5.2	ug/L	J		1	200.8
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SW-2020-2 | Lab Sample ID: 480-179335-2

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG ID.:

Matrix: Water | Date Sampled: 12/11/2020 13:30

Reporting Basis: WET | Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.0	0.82	ug/L		U	1	200.8
7440-38-2	Arsenic	0.64	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	ND	0.50	0.071	ug/L			1	200.8
7440-47-3	Chromium	1.6	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	3.5	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	0.61	1.0	0.17	ug/L	J		1	200.8
7440-02-0	Nickel	1.5	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	14.0	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: SW-2020-2 | Lab Sample ID: 480-179335-2

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG ID.:

Matrix: Water | Date Sampled: 12/11/2020 13:30

Reporting Basis: WET | Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.41	1.0	0.35	ug/L	J		1	200.8
7440-38-2	Arsenic	0.39	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	ND	0.50	0.071	ug/L			1	200.8
7440-47-3	Chromium	ND	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	2.5	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	ND	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	1.3	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	11.8	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SW-2020-3 | Lab Sample ID: 480-179335-3

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG ID.:

Matrix: Water | Date Sampled: 12/11/2020 14:00

Reporting Basis: WET | Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.0	0.87	ug/L		U	1	200.8
7440-38-2	Arsenic	0.81	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	0.034	0.70	0.030	ug/L	J		1	200.8
7440-43-9	Cadmium	0.19	0.50	0.071	ug/L	J		1	200.8
7440-47-3	Chromium	3.5	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	6.8	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	5.4	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	2.9	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	0.023	0.20	0.019	ug/L	J		1	200.8
7440-66-6	Zinc	88.3	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: SW-2020-3 Lab Sample ID: 480-179335-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG ID.:

Matrix: Water Date Sampled: 12/11/2020 14:00

Reporting Basis: WET Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.0	0.35	ug/L			1	200.8
7440-38-2	Arsenic	0.36	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	ND	0.50	0.071	ug/L			1	200.8
7440-47-3	Chromium	0.42	1.5	0.36	ug/L	J		1	200.8
7440-50-8	Copper	2.4	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	ND	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	1.1	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	22.2	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SW-2020-4 Lab Sample ID: 480-179335-4

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG ID.:

Matrix: Water Date Sampled: 12/11/2020 14:30

Reporting Basis: WET Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.6	1.0	0.35	ug/L			1	200.8
7440-38-2	Arsenic	0.75	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	0.14	0.50	0.071	ug/L	J		1	200.8
7440-47-3	Chromium	3.2	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	6.0	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	1.9	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	2.2	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	53.4	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: SW-2020-4 | Lab Sample ID: 480-179335-4

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG ID.:

Matrix: Water | Date Sampled: 12/11/2020 14:30

Reporting Basis: WET | Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.0	0.35	ug/L			1	200.8
7440-38-2	Arsenic	0.37	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	ND	0.50	0.071	ug/L			1	200.8
7440-47-3	Chromium	ND	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	2.4	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	ND	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	1.2	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	19.0	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SW-2020-5 | Lab Sample ID: 480-179335-5

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-179335-1

SDG ID.:

Matrix: Water | Date Sampled: 12/11/2020 15:00

Reporting Basis: WET | Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.0	0.86	ug/L		U	1	200.8
7440-38-2	Arsenic	0.94	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	0.046	0.70	0.030	ug/L	J		1	200.8
7440-43-9	Cadmium	0.42	0.50	0.071	ug/L	J		1	200.8
7440-47-3	Chromium	7.2	1.5	0.36	ug/L		B	1	200.8
7440-50-8	Copper	11.7	1.0	0.22	ug/L		B	1	200.8
7439-92-1	Lead	7.3	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	5.7	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	110	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	245.1

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: SW-2020-5 Lab Sample ID: 480-179335-5

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG ID.:

Matrix: Water Date Sampled: 12/11/2020 15:00

Reporting Basis: WET Date Received: 12/11/2020 16:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.0	0.35	ug/L			1	200.8
7440-38-2	Arsenic	0.35	1.0	0.27	ug/L	J		1	200.8
7440-41-7	Beryllium	ND	0.70	0.030	ug/L			1	200.8
7440-43-9	Cadmium	ND	0.50	0.071	ug/L			1	200.8
7440-47-3	Chromium	ND	1.5	0.36	ug/L			1	200.8
7440-50-8	Copper	3.2	1.0	0.22	ug/L			1	200.8
7439-92-1	Lead	ND	1.0	0.17	ug/L			1	200.8
7440-02-0	Nickel	1.2	1.0	0.11	ug/L			1	200.8
7782-49-2	Selenium	ND	1.0	0.44	ug/L			1	200.8
7440-22-4	Silver	ND	0.50	0.036	ug/L			1	200.8
7440-28-0	Thallium	ND	0.20	0.019	ug/L			1	200.8
7440-66-6	Zinc	18.2	10.0	2.6	ug/L			1	200.8
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00012	mg/L			1	245.1

ATTACHMENT B

SUPPORT DOCUMENTATION

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.	SITE NAME
60633654	TONAWANDA FORGE

SAMPLERS (PRINT/SIGNATURE)

LAB TA BUFF

COOLER 1 of

PAGE 1 of

DELIVERY SERVICE: _____ AIRBILL NO.: _____

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TESTS: SVOCs (8270D) TAL Metals (6010C/7471A)	TESTS: PCBs SOSEM	BOTTLE TYPE AND PRESERVATIVE: 40z amber	BOTTLE TYPE AND PRESERVATIVE: 40z amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SB-56	11/3/20	1110	G	SB-5[4]6-20-0.5-1	SO	2			1	1		N1	0.5	1	
SB-56	11/3/20	1112	G	SB-5[4]6-20-1.5-2	SO	1				1		N1	1.5	2	
SB-56	11/3/20	1115	G	SB-5[4]6-20-3.5-4.5	SO	1				1		N1	3.5	4.5	
SB-53	11/3/20	1134	G	SB-5[3]6-20-0.5-1	SO	~~2~~ 1			*	1		N1	0.5	1	
SB-53	11/3/20	1135	G	SB-53-20-3-4	SO	1				1		N1	3	4	
SB-53	11/3/20	1135	G	SB-53-20-5-6	SO	1				1		N1	5	6	
SB-51	11/3/20	1154	G	SB-51-20-0-1	SO	1				1		N1	0	1	
SB-51	11/3/20	1200	G	SB-51-20-3-4	SO	1				1		N1	3	4	
SB-51	11/3/20	1200	G	SB-51-20-4-5	SO	1				1		N1	4	5	



MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Peter R Faber	11/3/20	1407			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			Christine Cikolb	11/3/20	1407

SPECIAL INSTRUCTIONS

Temp 2.4 # 1 ICE

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO. 60633654

SITE NAME TONAWANDA FORGE

SAMPLERS (PRINT/SIGNATURE) Mike Gutheim / Tom Vilbert

LAB T/T Buff

COOLER — of —

PAGE 1 of 2

DELIVERY SERVICE: Drop Off AIRBILL NO.: N/A

TESTS: PCBs 8082A; SVOCs (8270D); TAL+Hg (6010C/7471A)

BOTTLE TYPE AND PRESERVATIVE: 4oz Amber; 4oz Amber

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	4oz Amber	4oz Amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SF-31	11/3/20	0940	G	SF-31-20-0-0.5	SO	1	1			N1	0	0.5	
SF-31	11/3/20	0940	G	SF-31-20-0-1	SO	1		1		N1	0	1	
SF-30	11/3/20	0945	G	SF-30-20-0-0.5	SO	1	1			N1	0	0.5	
SF-30	11/3/20	0945	G	SF-30-20-0-1	SO	1		1		N1	0	1	
SF-29	11/3/20	1000	G	SF-29-20-0-0.5	SO	1	1			N1	0	0.5	
SF-29	11/3/20	1000	G	SF-29-20-0-1	SO	1		1		N1	0	1	
SF-25	11/3/20	1020	G	SF-25-20-0-0.5	SO	1	1			N1	0	0.5	
SF-25	11/3/20	1020	G	SF-25-20-0-1	SO	1		1		N1	0	1	
SF-24	11/3/20	1050	G	SF-24-20-0-0.5	SO	1	1			N1	0	0.5	
SF-24	11/3/20	1050	G	SF-24-20-0-1	SO	1		1		N1	0	1	
SF-23	11/3/20	1055	G	SF-23-20-0-0.5	SO	1	1			N1	0	0.5	
SF-23	11/3/20	1055	G	SF-23-20-0-1	SO	1		1		N1	0	1	
										N1			

480-177558 Chain of Custody

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Peter Fabian	11/3/20	1407			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			Kim Kowalkowski	11/3/20	1407

SPECIAL INSTRUCTIONS: Temp 2.4 #1 ICE

Distribution: Original accompanies shipment, copy to coordinator field files

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: K. McGovern	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-41258-11132.1
Client Contact: Mr. George Kisluk	Phone: 716-856-5636	E-Mail: brian.fischer@testamericainc.com		Page: Page 2 of 167
Company: ~~URS Corporation~~ AECOM				Job #:
Address: ~~77 Goodell St~~ 257 West Genesee	Due Date Requested:			
City: Buffalo	TAT Requested (days): Std			
State, Zip: NY, 14203 2				
Phone: ~~518-402-9814(Tel)~~	PO #: Callout# 122179			
Email: george.kisluk@aecom.com	WO #:			
Project Name: NYSDEC-Tonawanda Forge:Site# 915274	Project #: ~~46008759~~ 60633654			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2+ TICS	6010C, 7471B	8082A - TCL PCBs - SOM01.0	8270D - (MOD) TCL SVOA - OLM04.2+ TICS	8260C - (MOD) TCL list OLM04.2+ TICS	6010C, 7470A	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	A	D		
SF-22-20-0-0.5	11/3/20	1035	G	Solid					X				1	
SF-22-20-0-1	11/3/20	1035	G	Solid				X		X			1	
SF-28-20-0-0.5	11/3/20	1110	G	Solid					X				1	
SF-28-20-0-1	11/3/20	1110	G	Solid				X		X			1	
SF-27-20-0-0.5	11/3/20	1115	G	Solid					X				1	
SF-27-20-0-1	11/3/20	1115	G	Solid				X		X			1	
SF-26-20-0-0.5	11/3/20	1125	G	Solid					X				1	
SF-26-20-0-1	11/3/20	1125	G	Solid				X		X			1	
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Patrick Fountain	11/3/20 1407	AECOM	Jennifer Cikolo	11/3/20 1407	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO. 60633654	SITE NAME TONAWANDA FORGE
SAMPLERS (PRINT/SIGNATURE) TOM URBAN	KEVIN McGOVERN
LAB TA BUFFALO	
COOLER 1 of 1	
PAGE 1 of 5	

TESTS: PCBs 8082A

BOTTLE TYPE AND PRESERVATIVE: 4 oz amber

DELIVERY SERVICE: _____ AIRBILL NO.: _____

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	4 oz amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SB-64	11/2/20	10:45	G	SB-64-20-0-1	SO	1	1		N1	0	1	
SB-64	11/2/20	10:45	G	SB-64-20-2-3	SO	1	1		N1	2	3	
SB-64	11/2/20	10:45	G	SB-64-20-4-5	SO	1	1		N1	4	5	
SB-66	11/2/20	11:05	G	SB-66-20-0-1	SO	1	1		N1	0	1	
SB-66	11/2/20	11:05	G	SB-66-20-1-2	SO	1	1		N1	1	2	
SB-63	11/2/20	11:20	G	SB-63-20-0-1	SO	1	1		N1	0	1	
SB-63	11/2/20	11:20	G	SB-63-20-1-2	SO	1	1		N1	1	2	
SB-63	11/2/20	11:20	G	SB-63-20-4-5	SO	1	1		N1	4	5	
SB-65	11/2/20	11:30	G	SB-65-20-0-1	SO	1	1		N1	0	1	
SB-65	11/2/20	11:30	G	SB-65-20-2-3	SO	1	1		N1	2	3	
SB-65	11/2/20	11:30	G	SB-65-20-4-5	SO	1	1		N1	4	5	
SB-77	11/2/20	11:45	G	SB-77-20-0-1	SO	1	1		N1	0	1	
SB-77	11/2/20	1145	G	SB-77 20-1-2	SO	1	1		N1	1	2	

480-177720 Chain of Custody

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Peter R Faub	11/3/20	1052			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			Anthony Cicolo	11/3/20	1052

SPECIAL INSTRUCTIONS: Temp 2.4 #1 ICE

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.	SITE NAME
60633654	TONAWANDA FORGE

SAMPLERS (PRINT/SIGNATURE): Tom Urban, Kevin McGovern

LAB: TA - BUFF
COOLER: 1 of 1
PAGE: 2 of 5

DELIVERY SERVICE: _____ AIRBILL NO.: _____

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TESTS: PCB's SOBBA	BOTTLE TYPE AND PRESERVATIVE: 4oz amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SB-77	11/2/20	11:45	G	SB-77-20-2-3	SO	1	1			N1	2	3	
SB-76	11/2/20	1200	G	SB-76-20-0-1	SO	1	1			N1	0	1	
SB-76	11/2/20	12:00	G	SB-76-20-2-3	SO	1	1			N1	2	3	
SB-74	11/2/20	12:15	G	SB-74-20-0-1	SO	1	1			N1	0	1	
SB-74	11/2/20	12:15	G	SB-74-20-2-3	SO	1	1			N1	2	3	
SB-73	11/2/20	12:40	G	SB-73-20-0-1	SO	1	1			N1	0	1	
SB-73	11/2/20	12:40	G	SB-73-20-2-3	SO	1	1			N1	2	3	
SB-73	11/2/20	12:40	G	SB-73-20-3-4	SO	1	1			N1	3	4	
SB-72	11/2/20	1255	G	SB-72-20-0-1	SO	1	1			N1	0	1	
SB-72	11/2/20	1255	G	SB-72-20-2-3	SO	1	1			N1	2	3	
SB-72	11/2/20	1255	G	SB-72-20-4-5	SO	1	1			N1	4	5	
FIELDQC	11/2/20	0000	G	FD-110220-1	SO	1	1			FD	0	0	
SB-71	11/2/20	1310	G	SB-71-20-0-1	SO	3	3		MS/MSD	N1	0	1	

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
Peter Faria	11/3/20	1050				
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	
			PGL			

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO. 60633654	SITE NAME TONAWANDA FORGE
SAMPLERS (PRINT/SIGNATURE) Tom Urban	Kevin McGovern

TESTS: RCRAs SOC 82H

LAB TestAmerica

COOLER 1 of 1

PAGE 3 of 5

DELIVERY SERVICE: _____ AIRBILL NO.: _____

BOTTLE TYPE AND PRESERVATIVE: 4oz amber

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SB-71	11/2/20	1310	G	SB-71-20-1-2	SO	1		N1	1	2	
SB-71	11/2/20	1310	G	SB-71-20-2-3	SO	1		N1	2	3	
SB-69	11/2/20	1320	G	SB-69-20-0-1	SO	1		N1	0	1	
SB-69	11/2/20	1320	G	SB-69-20-1-2	SO	1		N1	1	2	
SB-69	11/2/20	1320	G	SB-69-20-2-3	SO	1		N1	2	3	
SB-69	11/2/20	1320	G	SB-69-20-3-4	SO	1		N1	3	4	
SB-70	11/2/20	1340	G	SB-70-20-0-1	SO	1		N1	0	1	
SB-70	11/2/20	1340	G	SB-70-20-3-4	SO	1		N1	3	4	
SB-70	11/2/20	1340	G	SB-70-20-5-6	SO	1		N1	5	6	
SB-68	11/2/20	1400	G	SB-68-20-0-1	SO	1		N1	0	1	
SB-68	11/2/20	1400	G	SB-68-20-2-3	SO	1		N1	2	3	
SB-68	11/2/20	1400	G	SB-68-20-3-4	SO	1		N1	3	4	
SB-67	11/2/20	1415	G	SB-67-20-0-1	SO	1		N1	0	1	

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
Peter Fan	11/3/20	1050				
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	
			PGI			

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.	SITE NAME
60633654	TONAWANDA FORGE

SAMPLERS (PRINT/SIGNATURE): Tom URBAN, Kevin McGovern

LAB: TA Buff
COOLER: 1 of 1
PAGE: 4 of 5

DELIVERY SERVICE: _____ AIRBILL NO.: _____

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TESTS: PCBs 8082A	BOTTLE TYPE AND PRESERVATIVE: 4oz amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SB-67	11/2/20	1415	G	SB-67-20-3-4	SO	1	1	1		N1	3	4	
SB-67	11/2/20	1415	G	SB-67-20-4-5	SO	1	1	1		N1	4	5	
SB-61	11/2/20	1435	G	SB-61-20-0-1	SO	1	1	1		N1	0	1	
SB-61	11/2/20	1435	G	SB-61-20-2-3	SO	1	1	1		N1	2	3	
SB-61	11/2/20	1435	G	SB-61-20-5-6	SO	1	1	1		N1	5	6	
SB-61	11/2/20	1435	G	SB-61-20-6-7	SO	1	1	1		N1	6	7	
SB-60	11/2/20	1450	G	SB-60-20-0-1	SO	1	1	1		N1	0	1	
SB-60	11/2/20	1450	G	SB-60-20-3-4	SO	1	1	1		N1	3	4	
SB-60	11/2/20	1450	G	SB-60-20-5-6	SO	1	1	1		N1	5	6	
SB-59	11/2/20	1510	G	SB-59-20-0-1	SO	1	1	1		N1	0	1	
SB-59	11/2/20	1510	G	SB-59-20-3-4	SO	1	1	1		N1	3	4	
SB-59	11/2/20	1510	G	SB-59-20-4-5	SO	1	1	1		N1	4	5	
SB-58	11/2/20	1520	G	SB-58-20-0-1	SO	1	1	1		N1	0	1	

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
Peter Fan	11/3/20	1050				
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	
			Pg 1			

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.	SITE NAME
60633654	TONAWANDA FORGE

SAMPLERS (PRINT/SIGNATURE)

Tom Urban Kevin McGovern

LAB TIT - BUFF

COOLER 1 of 1

PAGE 5 of 5

TESTS: PCBs 8082A

BOTTLE TYPE AND PRESERVATIVE: 4oz amber

DELIVERY SERVICE: _____ AIRBILL NO.: _____

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. (IRPIMS ONLY)
SB-58	11/2/20	1520	G	SB-58-20-2-3	SO	1		N1	2	3	
SB-58	11/2/20	1520	G	SB-58-20-4-5	SO	1		N1	4	5	
FIELDQC	11/2/20	0000	G	FD-110220-2	SO	1		FD1	0	0	
SB-62	11/2/20	1530	G	SB-62-20-0-1	SO	1		N1	0	1	
SB-62	11/2/20	1530	G	SB-62-20-2-3	SO	1		N1	2	3	
SB-62	11/2/20	1530	G	SB-62-20-4-5	SO	1		N1	4	5	
SB-57	11/3/20	0850	G	SB-57-20-0-4	SO	1		N1	0	4	
SB-57	11/3/20	0850	G	SB-57-20-4-5	SO	1		N1	4	5	
SB-75	11/3/20	0940	G	SB-75-20-0-1	SO	1		N1	0	1	
SB-75	11/3/20	0940		SB-75-20-3-4	SO	1		N1	3	4	

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
[signature]	11/3/20	1050				
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	
			PGI			

Distribution: Original accompanies shipment, copy to coordinator field files

Job Narrative
480-177557-1

Receipt
The samples were received on 11/3/2020 10:52 AM and 11/3/2020 2:07 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4º C, 2.4º C and 2.4º C.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color and appearance: SF-31-20-0-1 (480-177558-2), SF-30-20-0-1 (480-177558-4), SF-29-20-0-1 (480-177558-6), SF-24-20-0-1 (480-177558-10), SF-28-20-0-1 (480-177558-16), SF-27-20-0-1 (480-177558-18) and SF-26-20-0-1 (480-177558-20). Elevated reporting limits (RL) are provided.

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) associated with preparation batch 480-557759 and analytical batch 480-558110 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-53-20-0.5-1 (480-177557-4), SB-53-20-3-4 (480-177557-5), SB-53-20-5-6 (480-177557-6), SB-51-20-0-1 (480-177557-7) and SB-51-20-3-4 (480-177557-8). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following samples were outside control limits: SB-53-20-0.5-1 (480-177557-4), SB-53-20-3-4 (480-177557-5), SB-51-20-0-1 (480-177557-7) and SB-51-20-3-4 (480-177557-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The matrix spike duplicate (MSD) recovery for preparation batch 480-557822 and analytical batch 480-558214 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-75-20-0-1 (480-177720-61). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: SB-75-20-0-1 (480-177720-61). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-74-20-2-3 (480-177720-18), SB-73-20-3-4 (480-177720-21), SB-72-20-2-3 (480-177720-23), SB-69-20-1-2 (480-177720-30), SB-69-20-2-3 (480-177720-31), SB-70-20-3-4 (480-177720-34), SB-70-20-5-6 (480-177720-35) and SB-68-20-0-1 (480-177720-36). Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample was diluted due to abundance of target analytes : SB-68-20-0-1 (480-177720-36). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB-57-20-0-4 (480-177720-59), (480-177720-A-59-A MS) and (480-177720-A-59-B MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following sample: SB-58-20-0-1 (480-177720-52). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-60-20-0-1 (480-177720-46), SB-60-20-5-6 (480-177720-48), SB-59-20-3-4 (480-177720-50), SB-59-20-4-5 (480-177720-51), SB-58-20-2-3 (480-177720-53) and FD-110220-2 (480-177720-55). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (480-177720-A-59-A MS) and (480-177720-A-59-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8082A: The following sample was diluted due to abundance of target analytes : SB-59-20-4-5 (480-177720-51). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: SB-53-20-0.5-1 (480-177557-4). The sample(s) has been quantified and reported as a mixture of Aroclors PCB-1248 and PCB-1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SB-54-20-0.5-1 (480-177557-1), SF-31-20-0-1 (480-177558-2), SF-30-20-0-1 (480-177558-4), SF-29-20-0-1 (480-177558-6), SF-25-20-0-1 (480-177558-8), SF-24-20-0-1 (480-177558-10), SF-23-20-0-1 (480-177558-12), SF-22-20-0-1 (480-177558-14), SF-28-20-0-1 (480-177558-16), SF-27-20-0-1 (480-177558-18), SF-26-20-0-1 (480-177558-20), (LCSSRM 480-561204/2-A) and (MB 480-561204/1-A)

Method 6010C: The following sample was diluted due to the presence of Total Calcium which interferes with Copper: SB-54-20-0.5-1 (480-177557-1). Elevated reporting limits (RLs) are provided.

Method 6010C: The following samples were diluted due to the presence of Total Iron which interferes with Silver, Arsenic, Cadmium, Chromium, Manganese, Nickel, Lead, Antimony, Selenium, and Vanadium: SF-31-20-0-1 (480-177558-2), SF-30-20-0-1 (480-177558-4) and SF-29-20-0-1 (480-177558-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3550C: The following sample: FD-110220-1 (480-177720-25) was decanted prior to preparation.

Method 3550C: The following sample: SB-77-20-2-3 (480-177720-14) was decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-53-20-0.5-1 Lab Sample ID: 480-177557-4

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/09/2020 11:40 Date Analyzed (2): 11/09/2020 11:40

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.10	2.08	2.11	24.8	35	51.1
		2	2.55	2.54	2.57	31.4		
		3	3.00	2.99	3.02	26.7		
		4	3.31	3.30	3.33	47.4		
		5	3.44	3.43	3.46	46.1		
	2	1	1.82	1.79	1.82	22.2	21	
		2	2.05	2.02	2.05	25.0		
		3	2.28	2.25	2.28	21.4		
		4	2.50	2.47	2.50	21.1		
		5	2.62	2.59	2.62	14.8		
PCB-1254	1	1	2.85	2.84	2.87	14.5	14	13.2
		2	2.94	2.93	2.96	14.6		
		3	3.31	3.30	3.33	16.0		
		4	3.44	3.43	3.46	14.6		
		5	3.85	3.84	3.87	11.3		
	2	1	2.50	2.47	2.50	26.6	12	
		2	2.66	2.63	2.66	8.87		
		3	2.93	2.90	2.93	8.71		
		4	3.12	3.09	3.12	8.56		
		5	3.49	3.46	3.49	9.52		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-63-20-0-1 Lab Sample ID: 480-177720-6

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/13/2020 15:23 Date Analyzed (2): 11/13/2020 15:23

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.56	4.54	4.60	0.0791	0.076	28.9
		2	4.61	4.58	4.64	0.108		
		3	4.83	4.80	4.86	0.0724		
		4	5.09	5.06	5.12	0.0566		
		5	5.37	5.35	5.41	0.0640		
	2	4	4.99	4.96	5.02	0.0467	0.057	
		5	5.50	5.47	5.53	0.169		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-77-20-0-1 Lab Sample ID: 480-177720-12

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/13/2020 16:42 Date Analyzed (2): 11/13/2020 16:42

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	5.19	5.16	5.22	2.82	2.5	26.8
		2	5.27	5.24	5.30	2.94		
		3	5.62	5.59	5.65	2.44		
		4	5.72	5.69	5.75	2.46		
		5	5.86	5.83	5.89	1.87		
	2	1	4.99	4.97	5.03	5.03	3.3	
		2	5.17	5.15	5.21	2.65		
		3	5.42	5.39	5.45	3.37		
		4	5.50	5.47	5.53	2.72		
		5	5.72	5.69	5.75	2.62		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-77-20-2-3 Lab Sample ID: 480-177720-14

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/13/2020 17:14 Date Analyzed (2): 11/13/2020 17:14

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.57	4.54	4.60	0.253	0.22	30.8
		2	4.61	4.58	4.64	0.268		
		3	4.83	4.80	4.86	0.198		
		4	5.09	5.06	5.12	0.175		
		5	5.37	5.35	5.41	0.215		
	2	1	4.44	4.41	4.47	0.305	0.30	
		2	4.63	4.60	4.66	0.190		
		3	4.95	4.92	4.98	0.157		
		4	5.00	4.96	5.02	0.249		
		5	5.50	5.47	5.53	0.614		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-73-20-2-3 Lab Sample ID: 480-177720-20

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/13/2020 19:21 Date Analyzed (2): 11/13/2020 19:21

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.57	4.54	4.60	2.05	2.2	48.8
		2	4.62	4.58	4.64	2.19		
		3	4.84	4.80	4.86	2.46		
		4	5.10	5.06	5.12	2.07		
		5	5.38	5.35	5.41	2.23		
	2	1	4.44	4.41	4.47	2.42	3.6	
		2	4.63	4.60	4.66	3.58		
		3	4.95	4.92	4.98	1.90		
		4	4.99	4.96	5.02	3.47		
		5	5.51	5.47	5.53	6.73		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-73-20-3-4 Lab Sample ID: 480-177720-21

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/15/2020 19:34 Date Analyzed (2): 11/15/2020 19:34

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.56	4.53	4.59	14.4	14	26.7
		2	4.61	4.58	4.64	17.2		
		3	4.83	4.80	4.86	15.5		
		4	5.09	5.06	5.12	9.87		
		5	5.37	5.34	5.40	12.6		
	2	1	4.43	4.40	4.46	15.9	18	
		2	4.62	4.59	4.65	17.8		
		3	4.94	4.91	4.97	8.89		
		4	4.99	4.95	5.01	18.5		
		5	5.49	5.46	5.52	29.9		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-72-20-4-5 Lab Sample ID: 480-177720-24

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/13/2020 21:44 Date Analyzed (2): 11/13/2020 21:44

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.57	4.54	4.60	0.0680	0.075	36.6
		2	4.62	4.58	4.64	0.0993		
		3	4.84	4.80	4.86	0.0849		
		4	5.10	5.06	5.12	0.0558		
		5	5.37	5.35	5.41	0.0678		
	2	5	5.50	5.47	5.53	0.132	0.052	

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-71-20-1-2 Lab Sample ID: 480-177720-27

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/13/2020 22:16 Date Analyzed (2): 11/13/2020 22:16

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.57	4.54	4.60	0.830	1.0	36.4
		2	4.61	4.58	4.64	0.980		
		3	4.84	4.80	4.86	1.02		
		4	5.09	5.06	5.12	0.965		
		5	5.37	5.35	5.41	1.30		
	2	1	4.44	4.41	4.47	0.871	1.5	
		2	4.63	4.60	4.66	0.968		
		3	4.95	4.92	4.98	0.883		
		4	4.99	4.96	5.02	1.72		
		5	5.50	5.47	5.53	2.92		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-67-20-4-5 Lab Sample ID: 480-177720-41

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 07:55 Date Analyzed (2): 11/20/2020 07:55

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	0.957	1.5	34.9
		2	2.79	2.77	2.80	1.20		
		3	3.25	3.24	3.27	1.14		
		4	3.56	3.55	3.58	2.19		
		5	3.70	3.68	3.71	2.08		
	2	1	2.09	2.07	2.10	0.878	1.1	
		2	2.33	2.31	2.34	1.46		
		3	2.57	2.55	2.58	1.15		
		4	2.76	2.75	2.78	0.800		
		5	2.92	2.90	2.93	1.04		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-61-20-0-1 Lab Sample ID: 480-177720-42

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 08:07 Date Analyzed (2): 11/20/2020 08:07

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	1.04	4.0	27.6
		2	2.79	2.77	2.80	3.47		
		3	3.26	3.24	3.27	4.17		
		4	3.56	3.55	3.58	5.48		
		5	3.69	3.68	3.71	5.88		
	2	1	2.09	2.07	2.10	1.55	3.0	
		2	2.33	2.31	2.34	3.73		
		3	2.57	2.55	2.58	3.51		
		4	2.76	2.75	2.78	2.36		
		5	2.92	2.90	2.93	4.02		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-60-20-3-4 Lab Sample ID: 480-177720-47

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 09:09 Date Analyzed (2): 11/20/2020 09:09

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	3.04	5.5	25.8
		2	2.79	2.77	2.80	5.57		
		3	3.26	3.24	3.27	4.84		
		4	3.56	3.55	3.58	7.12		
		5	3.69	3.68	3.71	6.91		
	2	1	2.09	2.07	2.10	3.11	4.2	
		2	2.33	2.31	2.34	5.22		
		3	2.57	2.55	2.58	4.68		
		4	2.76	2.75	2.78	3.42		
		5	2.92	2.90	2.93	4.77		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-58-20-0-1 Lab Sample ID: 480-177720-52

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 10:11 Date Analyzed (2): 11/20/2020 10:11

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	0.866	2.1	41.0
		2	2.79	2.77	2.80	1.64		
		3	3.26	3.24	3.27	1.94		
		4	3.56	3.55	3.58	2.81		
		5	3.69	3.68	3.71	3.33		
	2	1	2.09	2.07	2.10	0.779	1.4	
		2	2.33	2.31	2.34	1.51		
		3	2.57	2.55	2.58	1.47		
		4	2.76	2.75	2.78	1.28		
		5	2.92	2.90	2.93	1.95		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-58-20-2-3 Lab Sample ID: 480-177720-53

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 10:23 Date Analyzed (2): 11/20/2020 10:23

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	6.64	7.5	27.5
		2	2.79	2.77	2.80	7.64		
		3	3.26	3.24	3.27	6.55		
		5	3.69	3.68	3.71	9.02		
	2	1	2.09	2.07	2.10	5.27	5.7	
		2	2.33	2.31	2.34	6.77		
		3	2.57	2.55	2.58	6.58		
		4	2.76	2.75	2.78	3.23		
		5	2.92	2.90	2.93	6.45		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: FD-110220-2 Lab Sample ID: 480-177720-55

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 10:48 Date Analyzed (2): 11/20/2020 10:48

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	5.43	6.0	27.8
		2	2.79	2.77	2.80	5.94		
		3	3.26	3.24	3.27	5.45		
		5	3.69	3.68	3.71	7.17		
	2	1	2.09	2.07	2.10	4.99	4.5	
		2	2.33	2.31	2.34	5.38		
		3	2.57	2.55	2.58	4.91		
		4	2.76	2.75	2.78	2.39		
		5	2.92	2.90	2.93	4.99		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177557-1

SDG No.: 480-177557

Client Sample ID: SB-62-20-0-1 Lab Sample ID: 480-177720-56

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 11:00 Date Analyzed (2): 11/20/2020 11:00

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	1.13	2.5	37.7
		2	2.79	2.77	2.80	1.79		
		3	3.26	3.24	3.27	2.21		
		4	3.56	3.55	3.58	3.50		
		5	3.70	3.68	3.71	3.84		
	2	1	2.09	2.07	2.10	1.25	1.7	
		2	2.33	2.31	2.34	1.94		
		3	2.57	2.55	2.58	1.81		
		4	2.76	2.75	2.78	1.39		
		5	2.92	2.90	2.93	2.12		

Chain of Custody Record 491210

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutwein	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 257 West Genesee	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs/SVOCs/TAL Metals	PCBs (8082A)	VOCs (8260D)	Sample Specific Notes:
SB-48-20-0-0.5	11/3/20	1500	G	SO	2			X			
SB-48-20-1-2	11/3/20	1500	G	SO	1				X		
SB-48-20-2-3	11/3/20	1500	G	SO	1				X		
SB-50-20-0-1	11/4/20	0810	G	SO	1				X		
SB-50-20-3.5-4.5	11/4/20	0810	G	SO	1				X		
SB-32-20-2.5-3.5	11/4/20	0840	G	SO	1				X		
SB-32-20-4.5-5.5	11/4/20	0841	G	SO	1				X		
SB-33-20-1-2	11/4/20	0909	G	SO	1				X		
SB-33-20-3-4	11/4/20	0910	G	SO	1				X		
SB-78-20-1.5-2.5	11/4/20	0935	G	SO	5			X		X	
SB-78-20-4-5	11/4/20	0935	G	SO	2			X			
SB-79-20-0-1	11/4/20	0955	G	SO	2			X			

480-177721 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.9 Corr'd: _____ Therm ID No.: #1 ICE

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter M Fam	AECOM	11/4/20 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Christopher Cikolb	TA	11/04/20 1506

Chain of Custody Record

391662 eurofins | Environment Testing TestAmerica

ddress: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
mpany Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
dress: 257 West Genesee St	Analysis Turnaround Time			Sampler:
y/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
one: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
x:	☐ 2 weeks			Lab Sampling:
oject Name: TONAWANDA FORGE	☐ 1 week			
e:	☐ 2 days			Job / SDG No.:
)# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs / SVOCs (TAL + Hg)	PCBs (8082A)	VOCs (8260D)	SVOCs (TAL only) (8270D)	Sample Specific Notes:
SB-79-20-3.5-4.5	11/4/20	0955	G	SO	2			X				
SB-13-20-8-10	11/4/20	1105	G	SO	1				X			
SB-13-20-10-12	11/4/20	1106	G	SO	1				X			
SB-12-20-8.5-9.5	11/4/20	1146	G	SO	1				X			
SB-15-20-0-2	11/4/20	1218	G	SO	1				X			
SB-15-20-4-5	11/4/20	1220	G	SO	4				X	X		
SF-13-20-0-0.5	11/4/20	1220	G	SO	1				X			
SF-12-20-0-0.5	11/4/20	1225	G	SO	1				X			
SB-14-20-0-2	11/4/20	1309	G	SO	1				X			
SB-14-20-4-5	11/4/20	1310	G	SO	4				X	X		
SF-33-20-0-0.5	11/4/20	1250	G	SO	1				X			
SF-33-20-0-1	11/4/20	1250	G	SO	1						X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Return Fax	AECOM	11/4/20 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Ann Marie Nikolb	Company: TA	Date/Time: 11/04/20 1500

Chain of Custody Record

391663

eurofins | Environment Testing TestAmerica

dress: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
npany Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
ress: 257 West Genesee St	Analysis Turnaround Time			Sampler:
/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
ne: (716)-856-5636	TAT if different from Below STD			Walk-in Client:
:	☐ 2 weeks			Lab Sampling:
ject Name: Tonawanda Forge	☐ 1 week			
:	☐ 2 days			Job / SDG No.:
# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	SVOCs (8270D) (Acid/TAL+10) TAL metals	Sample Specific Notes:
SF-21-20-0-0.5	11/4/20	1305	G	SO	1			X		
SF-21-20-0-1	11/4/20	1305	G	SO	1				X	
SF-20-20-0-0.5	11/4/20	1310	G	SO	1			X		
SF-20-20-0-1	11/4/20	1310	G	SO	1				X	
SB-02-20-0-0.5	11/4/20	1420	G	SO	1			X		
SB-02-20-1-1.5	11/4/20	1420	G	SO	1			X		
SB-02-20-3-4	11/4/20	1420	G	SO	1			X		
SB-02-20-5-6	11/4/20	1420	G	SO	1			X		

servation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

ssible Hazard Identification:
any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the
mments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

ecial Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

linquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AECOM	11/4/20 1500			
linquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
linquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA	11/4/20 1500

Chain of Custody Record

391667

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	SVOCs (TAL w/ Li+Hg)	Sample Specific Notes:
SB-16-20-2-4	11/5/20	1240	G	SO	1			X		
SB-16-20-4-5	11/5/20	1240	G	SO	1			X		
SB-16-20-6-8	11/5/20	1240	G	SO	1			X		
SF-36-20-0-0.5	11/5/20	1215	G	SO	3		Y	X		
FD-110520-2	11/5/20	0000	G	SO	1			X		
SF-36-20-0-1	11/5/20	1215	G	SO	3		Y		X	
FD-110520-3	11/5/20	0000	G	SO	1				X	
SF-34-20-0-0.5	11/5/20	1230	G	SO	1			X		
SF-34-20-0-1	11/5/20	1230	G	SO	1				X	
SB-17-20-1-1.5	11/5/20	1305	G	SO	1			X		
SB-17-20-2-2.5	11/5/20	1305	G	SO	1			X		
SB-17-20-4-5	11/5/20	1310	G	SO	1			X		



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.4 #1 ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 4.4 Corr'd: _____	Therm ID No.: #1 ICE

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter Faber	AECOM	11/5/20 1437			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Clinton Cikolb	TA	11/5/20 1437

Chain of Custody Record

391664

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633657	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	Sample Specific Notes:
SB-01-20-0.8-1.3	11/4/20	1445	G	SO	1			X		
SB-01-20-1.8-2.3	11/4/20	1445	G	SO	1			X		
SB-01-20-3.8-4.8	11/14/20	1445	G	SO	1			X		
SB-01-20-5.8-6.8	11/14/20	1445	G	SO	4			X	X	
SB-05-20-0-0.5	11/14/20	1515	G	SO	1			X		
SB-05-20-1-1.5	11/14/20	1515	G	SO	1			X		
SB-05-20-2-3	11/14/20	1515	G	SO	4			X	X	
SB-05-20-4-5	11/14/20	1515	G	SO	1			X		
SB-05-20-6-7	11/14/20	1515	G	SO	1			X		
SB-06-20-0-0.5	11/5/20	0805	G	SO	1			X		
SB-06-20-1-1.5	11/5/20	0805	G	SO	1			X		
SB-06-20-2-3	11/5/20	0805	G	SO	1			X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Robert Fair	AECOM	11/5/20 1437			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Amy Kowalczyk	TA	11/5/20 1437

Chain of Custody Record

391665

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	Sample Specific Notes:
SB-06-20-4-5	11/5/20	0805	G	SO	1			X		
SB-06-20-6-7	11/5/20	0805	G	SO	3		X	X		
FD-110520-1	11/5/20	0800	G	SO	1			X		
SB-04-20-0.8-1.3	11/5/20	0845	G	SO	1			X		
SB-04-20-1.8-2.3	11/5/20	0845	G	SO	1			X		
SB-04-20-2.8-3.8	11/5/20	0845	G	SO	1			X		
SB-04-20-4.8-5.8	11/5/20	0845	G	SO	4			X	X	
SB-04-20-6.8-7.8	11/5/20	0845	G	SO	1			X		
SB-03-20-0.8-1.3	11/5/20	0922	G	SO	1			X		
SB-03-20-2-3	11/5/20	0922	G	SO	1			X		
SB-03-20-3-4	11/5/20	0922	G	SO	1			X		
SB-03A-20-0-0.5	11/5/20	0954	G	SO	1			X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter R Fan	AECOM	11/5/20 1432			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Anthony Nikolla	TA	11/05/20 1437

Chain of Custody Record

391666 eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	Sample Specific Notes:
SB-03A-20-1-1.5	11/5/20	0957	G	SO	1			X		
SB-03A-20-2-3	11/5/20	0958	G	SO	1			X		
SB-03A-20-4-5	11/5/20	0953	G	SO	1			X		
SB-03A-20-6-7	11/5/20	0953	G	SO	1			X		
SB-07-20-0-4	11/5/20	1035	G	SO	1			X		
SB-08-20-0-1	11/5/20	1054	G	SO	1			X		
SB-08-20-2-3	11/5/20	1100	G	SO	1			X		
SB-09-20-0.6-4	11/5/20	1114	G	SO	1			X		
SB-10-20-1-1.5	11/5/20	1135	G	SO	1			X		
SB-10-20-2-2.5	11/5/20	1135	G	SO	1			X		
SB-10-20-4-5	11/5/20	1135	G	SO	1			X		
SB-11-20-1-5	11/5/20	1152	G	SO	4			X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter Forte	AECOM	11/5/20 1437			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Anthony Cirolo	TA	11/6/20 1437

Chain of Custody Record

391668

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 257 West Genesee St	**Analysis Turnaround Time**			Sampler:
City/State/Zip: BUFFALO, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Phone: (716) 856-5636	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: TONAWANDA FORGE	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	Sample Specific Notes:
SB-17-20-6-8	11/5/20	1310	G	SO	1			X		
SB-18-20-0-3.7	11/5/20	1335	G	SO	4			X	X	
SB-19-20-1-1.5	11/5/20	1410	G	SO	1			X		
SB-19-20-2-2.5	11/5/20	1410	G	SO	1			X		
SB-19-20-4-5	11/5/20	1410	G	SO	1			X		

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter Fair	AECOM	11/5/20 1437			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[illegible]	TA	11/6/20 14[illegible]

Chain of Custody Record 391671

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutmann	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler: K. McGovern
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 6063365 4	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	Sample Specific Notes:
SB-44-20-0-0.5	11/6/20	0955	G	SO	1			X		
SB-44-20-4-5	11/6/20	0955	G	SO	1			X		
SB-44-20-8-9	11/6/20	0955	G	SO	1			X		
SB-31-20-0-0.5	11/6/20	1040	G	SO	1			X		
SB-31-20-1-1.5	11/6/20	1040	G	SO	1			X		
SB-31-20-4-5	11/6/20	1041	G	SO	1			X		
SB-30-20-0-0.5	11/6/20	1105	G	SO	1			X		
SB-30-20-2-4	11/6/20	1107	G	SO	7		Y	X	X	MS/MSD VOCs only
SB-30-20-5-6	11/6/20	1110	G	SO	1			X		
SB-29-20-0-0.5	11/6/20	1136	G	SO	1			X		
SB-29-20-1-1.5	11/6/20	1137	G	SO	1			X		
SB-29-20-3-4	11/6/20	1140	G	SO	1			X		

480-177832 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.1 2.8 #1 ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter M Fan	AECOM	11/6/20 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Christopher Cirolo	Company: TA	Date/Time: 11/6/20 1500

Chain of Custody Record 391669

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutwein	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler: K. McGovern
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	SVOCs (8270D)	TAL Metals (6010C/7471A)	Sample Specific Notes:
SB-21-20-1-1.5	11/5/20	1440	G	SO	1			X				
SB-21-20-2-2.5	11/5/20	1440	G	SO	1			X				
SB-21-20-4-5	11/5/20	1440	G	SO	1			X				
SB-23-20-1-1.5	11/5/20	1455	G	SO	1			X				
SB-23-20-2-2.5	11/5/20	1455	G	SO	4			X	X			
SB-23-20-4-5	11/5/20	1455	G	SO	1			X				
FD-110520-4	11/5/20	0000	G	SO	3				X			
SB-56-20-1-5	11/5/20	1522	G	SO	2			X		X	X	
SB-56-20-5-6	11/5/20	1525	G	SO	1			X				
SB-52-20-0-0.5	11/6/20	0744	G	SO	1			X				
SB-52-20-1-1.5	11/6/20	0745	G	SO	1			X				
SB-52-20-3-4	11/6/20	0745	G	SO	1			X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter R Faber	AECOM	11/6/20 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[illegible]	TA	11/6/2020 1500

Chain of Custody Record

391672 eurofins | Environment Testi
TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-821(

Client Contact	Project Manager: M. Gutmann	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler: K. McGovern
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 6063654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	Sample Specific Notes:
SB-28-20-0-0.5	11/6/20	1216	G	SO	1			X	
SB-28-20-1-1.5	11/6/20	1217	G	SO	1			X	
SB-28-20-4-5	11/6/20	1218	G	SO	1			X	
SB-27-20-0-0.5	11/6/20	1300	G	SO	1			X	
SB-27-20-1-1.5	11/6/20	1300	G	SO	1			X	
SB-27-20-3.5-4.5	11/6/20	1300	G	SO	1			X	
SB-26-20-0-0.5	11/6/20	1320	G	SO	1			X	
SB-26-20-1-1.5	11/6/20	1320	G	SO	1			X	
SB-26-20-3-4	11/6/20	1320	G	SO	1			X	
SB-24-20-1-2	11/6/20	1350	G	SO	1			X	
SB-24-20-3-4	11/6/20	1352	G	SO	1			X	
SB-25-20-1-2	11/6/20	1400	G	SO	1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter Fan	AECOM	11/6/20 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Anukow Cindb	TA	11/6/20 1500

Chain of Custody Record

391670

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutwein	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler: K. McGovern
City/State/Zip: Buffalo NY/ 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716)856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	SVOCs (8270D)	TAL Metals + Hg (6010C/7471B)	Sample Specific Notes:
SB-46-20-0-0.5	11/6/20	0806	G	SO	1			X				
SB-46-20-2-3	11/6/20	0807	G	SO	4			X	X			
SB-46-20-4-5	11/6/20	0810	G	SO	1			X				
SB-45-20-0-0.5	11/6/20	0850	G	SO	1			X				
SB-45-20-2-3	11/6/20	0850	G	SO	1			X				
SB-45-20-4-5	11/6/20	0850	G	SO	1			X				
SB-43-20-0-0.5	11/6/20	0910	G	SO	2			X		X	X	
SB-43-20-2-3	11/6/20	0910	G	SO	1			X				
SB-43-20-4-5	11/6/20	0910	G	SO	1			X				
SB-47-20-0-0.5	11/6/20	0925	G	SO	1			X				
SB-47-20-2-3	11/6/20	0925	G	SO	1			X				
SB-47-20-4-4.8	11/6/20	0925	G	SO	1			X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Peter R Fauth	Company: AECOM	Date/Time: 11/6/20 1500	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Anthony Cindo	Company: TA	Date/Time: 11/6/20 1500

Chain of Custody Record

391673

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutowski	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 257 West Genesee St	Analysis Turnaround Time			Sampler: K. McGovern
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB's (8082A)	Sample Specific Notes:
SB-25-20-3-4	11/6/20	1400	G	SO	1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter M Fair	AECOM	11/6/20 1500			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Anthony Cinelli	TA	11/6/20 1500

Receipt
The samples were received on 11/4/2020 3:00 PM, 11/5/2020 2:37 PM and 11/6/2020 3:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.8º C, 3.1º C, 3.9º C and 4.4º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-558222 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCVIs were non-detect or below the reporting limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SB-01-20-5.8-6.8 (480-177826-16), SB-05-20-2-3 (480-177826-19), SB-04-20-4.8-5.8 (480-177826-31), SB-11-20-1-5 (480-177826-48), SB-30-20-2-4 (480-177832-8), SB-23-20-2-2.5 (480-177832-17), FD-110520-4 (480-177832-19) and SB-46-20-2-3 (480-177832-38).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-558219 and analytical batch 480-558222 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and were not detected in the associated sample(s); therefore, the data have been reported. The associated samples are: SB-01-20-5.8-6.8 (480-177826-16), SB-05-20-2-3 (480-177826-19), SB-04-20-4.8-5.8 (480-177826-31), SB-11-20-1-5 (480-177826-48), SB-30-20-2-4 (480-177832-8), SB-23-20-2-2.5 (480-177832-17), FD-110520-4 (480-177832-19) and SB-46-20-2-3 (480-177832-38).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-558350 and analytical batch 480-558247 recovered outside control limits for the following analytes: Chloroethane and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is: SB-18-20-0-3.7 (480-177826-50).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-558565 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB-14-20-4-5 (480-177721-22).

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted due to the abundance of non-target analytes: SB-14-20-4-5 (480-177721-22), (480-177721-B-22-B MS) and (480-177721-B-22-C MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The surrogate Dibromofluoromethane (SURR) was outside the 20%D limits on the continuing calibration verification (CCV) but was within laboratory limits. The following samples are impacted: SB-14-20-4-5 (480-177721-22).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-558219 and analytical batch 480-558222 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The associated samples are: SB-30-20-2-4 (480-177832-8[MS]) and SB-30-20-2-4 (480-177832-8[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color and appearance: SB-48-20-0-0.5 (480-177721-1), SB-79-20-0-1 (480-177721-12), SF-33-20-0-1 (480-177721-24), SF-21-20-0-1 (480-177721-26), SF-20-20-0-1 (480-177721-28), (480-177721-A-24-A MS) and (480-177721-A-24-B MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SF-33-20-0-1 (480-177721-24), (480-177721-A-24-A MS) and (480-177721-A-24-B MSD). Elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-558289 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, 4-Nitrophenol, Di-n-octyl phthalate and Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: SF-21-20-0-1 (480-177721-26). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The following samples required a dilution due to the abundance of target analytes: SF-33-20-0-1 (480-177721-24), (480-177721-A-24-A MS) and (480-177721-A-24-B MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SF-21-20-0-1 (480-177721-26) and SF-20-20-0-1 (480-177721-28). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples were diluted due to the abundance of target analytes: SF-21-20-0-1 (480-177721-26) and

SF-20-20-0-1 (480-177721-28). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-558569 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following samples were diluted due to color, appearance and viscosity: SF-36-20-0-1 (480-177826-6), SF-36-20-0-1 (480-177826-6[MS]), SF-36-20-0-1 (480-177826-6[MSD]), FD-110520-3 (480-177826-7) and SF-34-20-0-1 (480-177826-9). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to physical characteristics: SF-36-20-0-1 (480-177826-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: SF-36-20-0-1 (480-177826-6[MS]) and SF-36-20-0-1 (480-177826-6[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-558053 and analytical batch 480-558289 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-48-20-1-2 (480-177721-2) and SB-48-20-2-3 (480-177721-3). Elevated reporting limits (RLs) are provided.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following samples: SF-21-20-0-0.5 (480-177721-25), SF-20-20-0-0.5 (480-177721-27), SB-02-20-0-0.5 (480-177721-29) and SB-02-20-1-1.5 (480-177721-30). The higher value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SF-13-20-0-0.5 (480-177721-19) and SB-02-20-5-6 (480-177721-32). Elevated reporting limits (RLs) are provided.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following sample: SF-13-20-0-0.5 (480-177721-19). The higher value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following sample(s) contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor: SF-13-20-0-0.5 (480-177721-19).

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SF-34-20-0-0.5 (480-177826-8) and SB-05-20-2-3 (480-177826-19). Elevated reporting limits (RLs) are provided.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following sample: SB-05-20-2-3 (480-177826-19). The higher value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following samples are associated with a laboratory control standard (LCS 480-559132/2) that had recoveries for the surrogate Tetrachloro-m-xylene that were above acceptance limits: SB-16-20-2-4 (480-177826-1), SB-16-20-4-5 (480-177826-2), SB-16-20-6-8 (480-177826-3), SF-36-20-0-0.5 (480-177826-4), FD-110520-2 (480-177826-5), SB-17-20-1-1.5 (480-177826-10) and SB-17-20-4-5 (480-177826-12). The secondary surrogate Decachlorobiphenyl was within limits; therefore, the data has been reported.

Method 8082A: Surrogate recovery for the following samples were outside the upper control limit: SB-16-20-6-8 (480-177826-3), SB-17-20-1-1.5 (480-177826-10) and SB-17-20-4-5 (480-177826-12). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 and PCB-1260 for the following sample: SF-34-20-0-0.5 (480-177826-8). The higher value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: Surrogate recovery for the following samples were outside the upper control limit: SB-31-20-4-5 (480-177832-6), SB-30-20-0-0.5 (480-177832-7) and SB-30-20-2-4 (480-177832-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples are associated with a laboratory control standard (LCS 480-559132/2) that had recoveries for the surrogate Tetrachloro-m-xylene that were above acceptance limits: SB-17-20-2-2.5 (480-177826-11), SB-01-20-0.8-1.3 (480-177826-13), SB-01-20-1.8-2.3 (480-177826-14), SB-01-20-3.8.4.8 (480-177826-15), SB-01-20-5.8-6.8 (480-177826-16), SB-05-20-0-0.5 (480-177826-17), SB-05-20-1-1.5 (480-177826-18) and SB-05-20-4-5 (480-177826-20). The secondary surrogate Decachlorobiphenyl

was within limits; therefore, the data has been reported.

Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-560078/95) that had recoveries for the surrogate Decachlorobiphenyl that were below acceptance limits: SB-19-20-1-1.5 (480-177826-51), SB-19-20-2-2.5 (480-177826-52), SB-19-20-4-5 (480-177826-53), SB-44-20-4-5 (480-177832-2), SB-44-20-8-9 (480-177832-3), SB-31-20-0-0.5 (480-177832-4), SB-31-20-1-1.5 (480-177832-5), SB-31-20-4-5 (480-177832-6), SB-30-20-0-0.5 (480-177832-7) and SB-30-20-2-4 (480-177832-8). The secondary surrogate Tetrachloro-m-xylene is within limits. Therefore, the data has been reported.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following samples: SB-04-20-1.8-2.3 (480-177826-29) and SB-03-20-2-3 (480-177826-34). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB-07-20-0-4 (480-177826-41). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: SB-04-20-1.8-2.3 (480-177826-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Surrogate recovery for the following sample was outside control limits: SB-18-20-0-3.7 (480-177826-50). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column: SB-08-20-2-3 (480-177826-43). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-559166 and analytical batch 480-560078 was outside control limits. Sample matrix interference is suspected.

Method 8082A: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: SB-10-20-2-2.5 (480-177826-46). The sample(s) has been quantified and reported as Aroclor PCB-1242. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-44-20-0-0.5 (480-177832-1). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-29-20-1-1.5 (480-177832-11), SB-28-20-1-1.5 (480-177832-26) and SB-27-20-1-1.5 (480-177832-29). Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample was diluted due to abundance of target analytes : SB-29-20-1-1.5 (480-177832-11). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-26-20-1-1.5 (480-177832-32), SB-45-20-0-0.5 (480-177832-40), SB-45-20-4-5 (480-177832-42), (480-177832-A-32-A MS) and (480-177832-A-32-B MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-559628 and analytical batch 480-561247 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The following sample was diluted due to abundance of target analytes : SB-45-20-0-0.5 (480-177832-40). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (480-177832-A-32-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SB-56-20-1-5 (480-177832-20), SB-43-20-0-0.5 (480-177832-43), (LCSSRM 480-560556/2-A) and (MB 480-560556/1-A)

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the

results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SB-48-20-0-0.5 (480-177721-1), SB-78-20-1.5-2.5 (480-177721-10), SB-78-20-4-5 (480-177721-11), SB-79-20-0-1 (480-177721-12), SB-79-20-3.5-4.5 (480-177721-13), SF-33-20-0-1 (480-177721-24), SF-21-20-0-1 (480-177721-26), SF-20-20-0-1 (480-177721-28), (LCSSRM 480-561333/2-A), (MB 480-561333/1-A), (480-177721-B-1-D MS), (480-177721-B-1-E MSD), (480-177721-B-1-C PDS) and (480-177721-B-1-C SD ^5)

Method 6010C: The Serial Dilution (480-177721-B-1-C SD ^5) in batch 480-561608, exhibited results outside the quality control limits for Total Beryllium, Calcium, Iron, and Potassium. However, the Post Digestion Spike was compliant so no corrective action was necessary.

Method 6010C: The recovery of Post Spike, (480-177721-B-1-C PDS), in batch 480-561608 exhibited results outside the quality control limits for Total Vanadium and Zinc. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

Method 6010C: The Serial Dilution and Post Spike (480-177721-B-1-C PDS) and (480-177721-B-1-C SD ^5) exceeded the quality control limits for Total Aluminum, Barium, Chromium, Copper, Magnesium, and Manganese. Sample matrix is suspected, therefore, no corrective action was necessary.

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: SB-79-20-0-1 (480-177721-12), SF-33-20-0-1 (480-177721-24), SF-21-20-0-1 (480-177721-26) and SF-20-20-0-1 (480-177721-28). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the presence of Total Manganese which interferes with Silver, Chromium, Magnesium, Selenium, and Thallium: SB-79-20-0-1 (480-177721-12). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Silver, Arsenic, Cadmium, Chromium, Manganese, Nickel, Lead, Antimony, Selenium, and Vanadium: SF-21-20-0-1 (480-177721-26). Elevated reporting limits (RLs) are provided.

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SF-36-20-0-1 (480-177826-6), SF-36-20-0-1 (480-177826-6[MS]), SF-36-20-0-1 (480-177826-6[MSD]), FD-110520-3 (480-177826-7), SF-34-20-0-1 (480-177826-9), (LCSSRM 480-561511/2-A) and (MB 480-561511/1-A)

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: SF-36-20-0-1 (480-177826-6), SF-36-20-0-1 (480-177826-6[MS]), SF-36-20-0-1 (480-177826-6[MSD]) and FD-110520-3 (480-177826-7). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Silver, Arsenic, Cadmium,Chromium, Manganese, Nickel, Lead, Antimony, Selenium, and Vanadium: SF-34-20-0-1 (480-177826-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SF-21-20-0-1 (480-177721-26). The reporting limits (RLs) are elevated proportionately.

Method 3550C: The following sample: SB-56-20-1-5 (480-177832-20) were decanted prior to preparation .

Method 3550C: The following samples: SB-09-20-0.6-4 (480-177826-44) and SB-44-20-8-9 (480-177832-3) was decanted prior to preparation.

Method 3550C: The following samples: SB-29-20-1-1.5 (480-177832-11) and SB-52-20-0-0.5 (480-177832-22) was decanted prior to preparation.

Method 3550C: The following samples: SB-46-20-2-3 (480-177832-38), SB-43-20-2-3 (480-177832-44) and SB-47-20-4-4.8 (480-177832-48) were decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab File ID: P5990.D BFB Injection Date: 11/08/2020

Instrument ID: HP5973P BFB Injection Time: 19:19

Analysis Batch No.: 558037

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.0	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	1.2	(1.4) 1
174	Greater than 50% of mass 95	86.6	
175	5.0 - 9.0 % of mass 174	6.2	(7.1) 1
176	95.0 - 101.0 % of mass 174	84.1	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.8	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-558037/10	P5993.D	11/08/2020	20:55
	LCS 480-558044/1-A	P5994.D	11/08/2020	21:20
	MB 480-558044/2-A	P5996.D	11/08/2020	22:09
SB-78-20-1.5-2.5	480-177721-10	P6010.D	11/09/2020	4:38
SB-15-20-4-5	480-177721-18	P6011.D	11/09/2020	5:02

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558037/10 Calibration Date: 11/08/2020 20:55

Instrument ID: HP5973P Calib Start Date: 09/30/2020 20:36

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/30/2020 23:29

Lab File ID: P5993.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.615	1.202	0.1000	37.2	50.0	-25.5	50.0
Chloromethane	Ave	2.687	2.506	0.1000	46.6	50.0	-6.7	20.0
Vinyl chloride	Ave	1.950	1.945	0.1000	49.9	50.0	-0.3	20.0
Butadiene	Ave	2.259	1.907		42.2	50.0	-15.6	20.0
Bromomethane	Ave	1.145	1.377	0.1000	60.1	50.0	20.2	50.0
Chloroethane	Ave	1.059	1.157	0.1000	54.6	50.0	9.2	50.0
Trichlorofluoromethane	Ave	2.709	2.778	0.1000	51.3	50.0	2.5	20.0
Dichlorofluoromethane	Ave	2.411	2.551		52.9	50.0	5.8	20.0
Allyl chloride	Ave	0.7854	0.9623		61.3	50.0	22.5*	20.0
Ethyl ether	Ave	1.421	1.423		50.1	50.0	0.2	20.0
Acrolein	Ave	0.1681	0.1225		182	250	-27.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.576	1.542	0.1000	48.9	50.0	-2.2	20.0
1,1-Dichloroethene	Ave	1.389	1.287	0.1000	46.3	50.0	-7.4	20.0
Acetone	Ave	0.5298	0.5844	0.1000	276	250	10.3	50.0
Iodomethane	Ave	2.741	2.532		46.2	50.0	-7.6	20.0
Carbon disulfide	Ave	3.810	3.875	0.1000	50.9	50.0	1.7	20.0
Methyl acetate	Ave	1.359	1.336	0.1000	98.3	100	-1.7	50.0
Methylene Chloride	Lin1		1.407	0.1000	50.6	50.0	1.3	20.0
2-Methyl-2-propanol	Ave	0.2076	0.2036		490	500	-1.9	50.0
Methyl tert-butyl ether	Ave	3.718	3.676	0.1000	49.4	50.0	-1.1	20.0
trans-1,2-Dichloroethene	Ave	1.530	1.448	0.1000	47.3	50.0	-5.4	20.0
Acrylonitrile	Ave	0.6509	0.6422		493	500	-1.3	20.0
Hexane	Ave	2.963	3.212		54.2	50.0	8.4	20.0
1,1-Dichloroethane	Ave	2.788	2.768	0.2000	49.6	50.0	-0.7	20.0
Vinyl acetate	Ave	3.830	4.125		108	100	7.7	20.0
2,2-Dichloropropane	Ave	1.371	1.434		52.3	50.0	4.6	20.0
cis-1,2-Dichloroethene	Ave	1.682	1.548	0.1000	46.0	50.0	-8.0	20.0
2-Butanone (MEK)	Ave	0.8825	0.9092	0.1000	258	250	3.0	20.0
Chlorobromomethane	Ave	0.9096	0.8240		45.3	50.0	-9.4	20.0
Tetrahydrofuran	Ave	0.6057	0.5873		97.0	100	-3.0	20.0
Chloroform	Ave	2.417	2.337	0.2000	48.3	50.0	-3.3	20.0
1,1,1-Trichloroethane	Ave	2.105	2.177	0.1000	51.7	50.0	3.4	20.0
Cyclohexane	Ave	3.246	3.230	0.1000	49.8	50.0	-0.5	20.0
Carbon tetrachloride	Ave	2.076	2.173	0.1000	52.3	50.0	4.6	20.0
1,1-Dichloropropene	Ave	1.797	1.764		49.1	50.0	-1.9	20.0
Benzene	Ave	5.842	5.540	0.5000	47.4	50.0	-5.2	20.0
Isobutyl alcohol	Ave	0.0965	0.0901		1170	1250	-6.7	50.0
1,2-Dichloroethane	Ave	1.971	1.990	0.1000	50.5	50.0	1.0	20.0
n-Heptane	Ave	3.341	3.321		49.7	50.0	-0.6	20.0
Trichloroethene	Ave	1.532	1.489	0.2000	48.6	50.0	-2.8	20.0

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab File ID: P6047.D BFB Injection Date: 11/09/2020

Instrument ID: HP5973P BFB Injection Time: 22:36

Analysis Batch No.: 558222

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.3	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	Greater than 50% of mass 95	86.2	
175	5.0 - 9.0 % of mass 174	7.4	(8.6) 1
176	95.0 - 101.0 % of mass 174	84.1	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-558222/2	P6048.D	11/09/2020	22:56
	LCS 480-558219/1-A	P6050.D	11/09/2020	23:51
	MB 480-558219/2-A	P6052.D	11/10/2020	0:41
SB-01-20-5.8-6.8	480-177826-16	P6056.D	11/10/2020	2:34
SB-05-20-2-3	480-177826-19	P6057.D	11/10/2020	2:59
SB-04-20-4.8-5.8	480-177826-31	P6058.D	11/10/2020	3:23
SB-11-20-1-5	480-177826-48	P6059.D	11/10/2020	3:48
SB-30-20-2-4	480-177832-8	P6061.D	11/10/2020	4:37
SB-23-20-2-2.5	480-177832-17	P6062.D	11/10/2020	5:02
FD-110520-4	480-177832-19	P6063.D	11/10/2020	5:27
SB-46-20-2-3	480-177832-38	P6064.D	11/10/2020	5:52
SB-30-20-2-4 MS	480-177832-8 MS	P6065.D	11/10/2020	6:17
SB-30-20-2-4 MSD	480-177832-8 MSD	P6066.D	11/10/2020	6:42

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558222/2 Calibration Date: 11/09/2020 22:56

Instrument ID: HP5973P Calib Start Date: 09/30/2020 20:36

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/30/2020 23:29

Lab File ID: P6048.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.615	1.194	0.1000	37.0	50.0	-26.1	50.0
Chloromethane	Ave	2.687	2.745	0.1000	51.1	50.0	2.2	20.0
Vinyl chloride	Ave	1.950	2.143	0.1000	54.9	50.0	9.9	20.0
Butadiene	Ave	2.259	2.050		45.4	50.0	-9.3	20.0
Bromomethane	Ave	1.145	1.711	0.1000	74.7	50.0	49.4	50.0
Chloroethane	Ave	1.059	1.420	0.1000	67.0	50.0	34.1	50.0
Trichlorofluoromethane	Ave	2.709	2.963	0.1000	54.7	50.0	9.4	20.0
Dichlorofluoromethane	Ave	2.411	2.963		61.4	50.0	22.9*	20.0
Allyl chloride	Ave	0.7854	1.548		98.6	50.0	97.1*	20.0
Ethyl ether	Ave	1.421	1.661		58.4	50.0	16.9	20.0
Acrolein	Ave	0.1681	0.1480		220	250	-12.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.576	1.681	0.1000	53.3	50.0	6.7	20.0
1,1-Dichloroethene	Ave	1.389	1.380	0.1000	49.7	50.0	-0.7	20.0
Acetone	Ave	0.5298	0.6989	0.1000	330	250	31.9	50.0
Iodomethane	Ave	2.741	2.592		47.3	50.0	-5.5	20.0
Carbon disulfide	Ave	3.810	4.212	0.1000	55.3	50.0	10.6	20.0
Methyl acetate	Ave	1.359	1.653	0.1000	122	100	21.7	50.0
Methylene Chloride	Lin1		1.520	0.1000	54.8	50.0	9.7	20.0
2-Methyl-2-propanol	Ave	0.2076	0.2565		618	500	23.5	50.0
Methyl tert-butyl ether	Ave	3.718	4.115	0.1000	55.3	50.0	10.7	20.0
trans-1,2-Dichloroethene	Ave	1.530	1.569	0.1000	51.3	50.0	2.5	20.0
Acrylonitrile	Ave	0.6509	0.7902		607	500	21.4*	20.0
Hexane	Ave	2.963	3.418		57.7	50.0	15.4	20.0
1,1-Dichloroethane	Ave	2.788	3.057	0.2000	54.8	50.0	9.7	20.0
Vinyl acetate	Ave	3.830	4.991		130	100	30.3*	20.0
2,2-Dichloropropane	Ave	1.371	1.465		53.5	50.0	6.9	20.0
cis-1,2-Dichloroethene	Ave	1.682	1.697	0.1000	50.5	50.0	0.9	20.0
2-Butanone (MEK)	Ave	0.8825	1.136	0.1000	322	250	28.8*	20.0
Chlorobromomethane	Ave	0.9096	0.9249		50.8	50.0	1.7	20.0
Tetrahydrofuran	Ave	0.6057	0.7591		125	100	25.3*	20.0
Chloroform	Ave	2.417	2.559	0.2000	52.9	50.0	5.9	20.0
1,1,1-Trichloroethane	Ave	2.105	2.384	0.1000	56.6	50.0	13.3	20.0
Cyclohexane	Ave	3.246	3.752	0.1000	57.8	50.0	15.6	20.0
Carbon tetrachloride	Ave	2.076	2.267	0.1000	54.6	50.0	9.2	20.0
1,1-Dichloropropene	Ave	1.797	1.935		53.8	50.0	7.6	20.0
Benzene	Ave	5.842	6.285	0.5000	53.8	50.0	7.6	20.0
Isobutyl alcohol	Ave	0.0965	0.1195		1550	1250	23.8	50.0
1,2-Dichloroethane	Ave	1.971	2.297	0.1000	58.3	50.0	16.5	20.0
n-Heptane	Ave	3.341	3.971		59.4	50.0	18.9	20.0
Trichloroethene	Ave	1.532	1.634	0.2000	53.3	50.0	6.7	20.0

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab File ID: P6073.D BFB Injection Date: 11/10/2020

Instrument ID: HP5973P BFB Injection Time: 09:13

Analysis Batch No.: 558247

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	35.4	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	9.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	99.5	
175	5.0 - 9.0 % of mass 174	6.1	(6.1) 1
176	95.0 - 101.0 % of mass 174	95.3	(95.8) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-558247/3	P6074.D	11/10/2020	9:40
	LCS 480-558350/1-A	P6076.D	11/10/2020	10:29
	MB 480-558350/2-A	P6078.D	11/10/2020	11:18
SB-18-20-0-3.7	480-177826-50	P6080.D	11/10/2020	15:13

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558247/3 Calibration Date: 11/10/2020 09:40

Instrument ID: HP5973P Calib Start Date: 09/30/2020 20:36

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/30/2020 23:29

Lab File ID: P6074.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.615	1.183	0.1000	36.6	50.0	-26.7	50.0
Chloromethane	Ave	2.687	2.829	0.1000	52.6	50.0	5.3	20.0
Vinyl chloride	Ave	1.950	2.222	0.1000	57.0	50.0	13.9	20.0
Butadiene	Ave	2.259	2.253		49.9	50.0	-0.3	20.0
Bromomethane	Ave	1.145	1.697	0.1000	74.1	50.0	48.2	50.0
Chloroethane	Ave	1.059	1.444	0.1000	68.2	50.0	36.3	50.0
Trichlorofluoromethane	Ave	2.709	3.004	0.1000	55.4	50.0	10.9	20.0
Dichlorofluoromethane	Ave	2.411	2.854		59.2	50.0	18.4	20.0
Allyl chloride	Ave	0.7854	1.188		75.6	50.0	51.2*	20.0
Ethyl ether	Ave	1.421	1.491		52.4	50.0	4.9	20.0
Acrolein	Ave	0.1681	0.1285		191	250	-23.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.576	1.350	0.1000	42.8	50.0	-14.3	20.0
1,1-Dichloroethene	Ave	1.389	1.166	0.1000	42.0	50.0	-16.0	20.0
Acetone	Ave	0.5298	0.5891	0.1000	278	250	11.2	50.0
Iodomethane	Ave	2.741	2.371		43.2	50.0	-13.5	20.0
Carbon disulfide	Ave	3.810	3.624	0.1000	47.6	50.0	-4.9	20.0
Methyl acetate	Ave	1.359	1.401	0.1000	103	100	3.1	50.0
Methylene Chloride	Lin1		1.359	0.1000	48.8	50.0	-2.4	20.0
2-Methyl-2-propanol	Ave	0.2076	0.1950		470	500	-6.1	50.0
Methyl tert-butyl ether	Ave	3.718	3.666	0.1000	49.3	50.0	-1.4	20.0
trans-1,2-Dichloroethene	Ave	1.530	1.406	0.1000	46.0	50.0	-8.1	20.0
Acrylonitrile	Ave	0.6509	0.6896		530	500	5.9	20.0
Hexane	Ave	2.963	2.775		46.8	50.0	-6.3	20.0
1,1-Dichloroethane	Ave	2.788	2.827	0.2000	50.7	50.0	1.4	20.0
Vinyl acetate	Ave	3.830	4.418		115	100	15.3	20.0
2,2-Dichloropropane	Ave	1.371	1.272		46.4	50.0	-7.2	20.0
cis-1,2-Dichloroethene	Ave	1.682	1.564	0.1000	46.5	50.0	-7.0	20.0
2-Butanone (MEK)	Ave	0.8825	0.9776	0.1000	277	250	10.8	20.0
Chlorobromomethane	Ave	0.9096	0.8303		45.6	50.0	-8.7	20.0
Tetrahydrofuran	Ave	0.6057	0.6232		103	100	2.9	20.0
Chloroform	Ave	2.417	2.410	0.2000	49.9	50.0	-0.3	20.0
1,1,1-Trichloroethane	Ave	2.105	2.094	0.1000	49.8	50.0	-0.5	20.0
Cyclohexane	Ave	3.246	2.972	0.1000	45.8	50.0	-8.4	20.0
Carbon tetrachloride	Ave	2.076	1.977	0.1000	47.6	50.0	-4.8	20.0
1,1-Dichloropropene	Ave	1.797	1.714		47.7	50.0	-4.6	20.0
Benzene	Ave	5.842	5.709	0.5000	48.9	50.0	-2.3	20.0
Isobutyl alcohol	Ave	0.0965	0.0947		1230	1250	-1.9	50.0
1,2-Dichloroethane	Ave	1.971	2.135	0.1000	54.2	50.0	8.3	20.0
n-Heptane	Ave	3.341	3.294		49.3	50.0	-1.4	20.0
Trichloroethene	Ave	1.532	1.494	0.2000	48.7	50.0	-2.5	20.0

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab File ID: U33159290.D DFTPP Injection Date: 11/10/2020

Instrument ID: HP5973U DFTPP Injection Time: 10:10

Analysis Batch No.: 558289

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	40.5	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	38.7	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	47.0	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.6	
275	10-60% of Base Peak	27.6	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	13.2	(14.5) 2
442	Greater than 50% of mass 198	91.0	
443	15-24% of mass 442	16.8	(18.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-558289/3	U33159291.D	11/10/2020	10:35
	MB 480-558053/1-A	U33159293.D	11/10/2020	11:26
	LCS 480-558053/2-A	U33159294.D	11/10/2020	11:51
SF-33-20-0-1 MS	480-177721-24 MS	U33159295.D	11/10/2020	12:17
SF-33-20-0-1 MSD	480-177721-24 MSD	U33159296.D	11/10/2020	12:42
SF-33-20-0-1	480-177721-24	U33159297.D	11/10/2020	13:07
SB-48-20-0-0.5	480-177721-1	U33159304.D	11/10/2020	16:02
SB-78-20-1.5-2.5	480-177721-10	U33159305.D	11/10/2020	16:27
SB-78-20-4-5	480-177721-11	U33159306.D	11/10/2020	16:51
SB-79-20-0-1	480-177721-12	U33159307.D	11/10/2020	17:16
SB-79-20-3.5-4.5	480-177721-13	U33159308.D	11/10/2020	17:41
SF-21-20-0-1	480-177721-26	U33159309.D	11/10/2020	18:06
SF-20-20-0-1	480-177721-28	U33159310.D	11/10/2020	18:31
SF-33-20-0-1 MS DL	480-177721-24 MS DL	U33159311.D	11/10/2020	18:56
SF-33-20-0-1 MSD DL	480-177721-24 MSD DL	U33159312.D	11/10/2020	19:21
SF-33-20-0-1 DL	480-177721-24 DL	U33159313.D	11/10/2020	19:46

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558289/3 Calibration Date: 11/10/2020 10:35

Instrument ID: HP5973U Calib Start Date: 08/20/2020 12:57

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 08/20/2020 15:55

Lab File ID: U33159291.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6208	0.5892	0.0100	47500	50000	-5.1	20.0
N-Nitrosodimethylamine	Ave	0.9304	0.8903	0.0100	47800	50000	-4.3	50.0
Pyridine	Ave	1.397	0.9796	0.0100	70100	100000	-29.9	50.0
Benzaldehyde	Ave	1.134	0.9645	0.0100	42500	50000	-15.0	50.0
Aniline	Ave	2.134	2.019	0.0100	47300	50000	-5.4	20.0
Phenol	Ave	1.817	1.758	0.8000	48400	50000	-3.3	20.0
Bis(2-chloroethyl)ether	Ave	1.341	1.300	0.7000	48400	50000	-3.1	20.0
2-Chlorophenol	Ave	1.334	1.323	0.8000	49600	50000	-0.8	20.0
n-Decane	Ave	1.946	1.605	0.0100	41200	50000	-17.5	20.0
1,3-Dichlorobenzene	Ave	1.532	1.551	0.0100	50600	50000	1.3	20.0
1,4-Dichlorobenzene	Ave	1.536	1.558	0.0100	50700	50000	1.4	20.0
Benzyl alcohol	Ave	0.8626	0.8484	0.0100	49200	50000	-1.6	20.0
1,2-Dichlorobenzene	Ave	1.450	1.489	0.0100	51300	50000	2.7	20.0
Indene	Ave	2.404	2.355	0.0100	147000	150000	-2.0	20.0
2-Methylphenol	Ave	1.226	1.179	0.7000	48100	50000	-3.8	20.0
bis (2-chloroisopropyl) ether	Ave	2.697	2.065	0.0100	38300	50000	-23.4*	20.0
Acetophenone	Ave	1.861	1.697	0.0100	45600	50000	-8.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.085	0.9202	0.5000	42400	50000	-15.2	20.0
4-Methylphenol	Ave	1.270	1.224	0.6000	48200	50000	-3.6	20.0
Hexachloroethane	Ave	0.5952	0.5604	0.3000	47100	50000	-5.9	20.0
Nitrobenzene	Ave	0.4238	0.3805	0.2000	44900	50000	-10.2	20.0
Isophorone	Ave	0.7300	0.6718	0.4000	46000	50000	-8.0	20.0
2-Nitrophenol	Lin2		0.1989	0.1000	55300	50000	10.5	20.0
2,4-Dimethylphenol	Ave	0.3860	0.3429	0.2000	44400	50000	-11.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.4171	0.3998	0.3000	47900	50000	-4.2	20.0
Benzoic acid	Lin1		0.1418	0.0100	94800	150000	-36.8	50.0
2,4-Dichlorophenol	Ave	0.3035	0.3154	0.2000	52000	50000	3.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3510	0.3570	0.0100	50900	50000	1.7	20.0
Naphthalene	Ave	1.026	1.040	0.7000	50700	50000	1.3	20.0
4-Chloroaniline	Ave	0.4356	0.4227	0.0100	48500	50000	-3.0	20.0
2,6-Dichlorophenol	Ave	0.2949	0.3070	0.0100	52100	50000	4.1	20.0
Hexachlorobutadiene	Ave	0.2075	0.2119	0.0100	51100	50000	2.1	20.0
Caprolactam	Lin2		0.1067	0.0100	51100	50000	2.2	50.0
4-Chloro-3-methylphenol	Ave	0.2996	0.2818	0.2000	47000	50000	-5.9	20.0
2-Methylnaphthalene	Ave	0.7168	0.7269	0.4000	50700	50000	1.4	20.0
1-Methylnaphthalene	Ave	0.6604	0.6527	0.0100	49400	50000	-1.2	20.0
Hexachlorocyclopentadiene	Ave	0.4929	0.3887	0.0500	39400	50000	-21.1*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6707	0.6618	0.0100	49300	50000	-1.3	20.0
2,4,6-Trichlorophenol	Ave	0.4009	0.3964	0.2000	49400	50000	-1.1	20.0
2,4,5-Trichlorophenol	Ave	0.4255	0.4022	0.2000	47300	50000	-5.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558289/3 Calibration Date: 11/10/2020 10:35

Instrument ID: HP5973U Calib Start Date: 08/20/2020 12:57

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 08/20/2020 15:55

Lab File ID: U33159291.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.608	1.578	0.0100	49100	50000	-1.9	20.0
2-Chloronaphthalene	Ave	1.245	1.225	0.8000	49200	50000	-1.6	20.0
2-Nitroaniline	Lin2		0.3299	0.0100	39700	50000	-20.5*	20.0
Dimethyl phthalate	Ave	1.399	1.318	0.0100	47100	50000	-5.8	20.0
1,3-Dinitrobenzene	Lin2		0.1330	0.0100	54800	50000	9.5	20.0
2,6-Dinitrotoluene	Lin2		0.3198	0.2000	49000	50000	-2.0	20.0
Acenaphthylene	Ave	1.839	1.794	0.9000	48800	50000	-2.4	20.0
3-Nitroaniline	Lin2		0.3274	0.0100	48200	50000	-3.5	20.0
Acenaphthene	Ave	1.227	1.204	0.9000	49100	50000	-1.9	20.0
2,4-Dinitrophenol	Lin1		0.1915	0.0100	103000	100000	2.8	20.0
4-Nitrophenol	Lin2		0.1424	0.0100	67500	100000	-32.5*	20.0
Dibenzofuran	Ave	1.802	1.752	0.8000	48600	50000	-2.7	20.0
2,4-Dinitrotoluene	Lin2		0.4197	0.2000	48600	50000	-2.8	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3227	0.0100	45800	50000	-8.3	20.0
Diethyl phthalate	Ave	1.443	1.266	0.0100	43900	50000	-12.3	20.0
Hexadecane	Ave	1.084	0.8712	0.0100	40200	50000	-19.6	20.0
Fluorene	Ave	1.468	1.380	0.9000	47000	50000	-6.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.7402	0.7075	0.4000	47800	50000	-4.4	20.0
4-Nitroaniline	Ave	0.3319	0.3230	0.0100	48700	50000	-2.7	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1413	0.0100	110000	100000	9.6	20.0
Diphenylamine	Ave	0.6654	0.6461	0.0100	41500	42800	-2.9	20.0
N-Nitrosodiphenylamine	Ave	0.5689	0.5524	0.0100	48500	50000	-2.9	20.0
1,2-Diphenylhydrazine	Ave	0.8565	0.7090	0.0100	41400	50000	-17.2	20.0
trans-Azobenzene	Ave	0.8565	0.7090	0.0100	41400	50000	-17.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2397	0.2322	0.1000	48400	50000	-3.1	20.0
Hexachlorobenzene	Ave	0.2628	0.2604	0.1000	49500	50000	-0.9	20.0
Atrazine	Ave	0.4097	0.3983	0.0100	48600	50000	-2.8	20.0
Pentachlorophenol	Lin2		0.1206	0.0500	89100	100000	-10.9	20.0
n-Octadecane	Ave	0.6063	0.4724	0.0100	39000	50000	-22.1*	20.0
Phenanthrene	Ave	1.156	1.101	0.7000	47600	50000	-4.8	20.0
Anthracene	Ave	1.171	1.133	0.7000	48400	50000	-3.3	20.0
Carbazole	Ave	1.048	0.9796	0.0100	46700	50000	-6.5	20.0
Di-n-butyl phthalate	Ave	1.312	1.155	0.0100	44000	50000	-12.0	20.0
Fluoranthene	Ave	1.259	1.216	0.6000	48300	50000	-3.4	20.0
Benzidine	Ave	0.6559	0.6495	0.0100	49500	50000	-1.0	50.0
Pyrene	Ave	1.361	1.195	0.6000	43900	50000	-12.2	20.0
Butyl benzyl phthalate	Ave	0.5807	0.4795	0.0100	41300	50000	-17.4	20.0
3,3'-Dichlorobenzidine	Ave	0.4772	0.4784	0.0100	50100	50000	0.3	50.0
Benzo(a)anthracene	Ave	1.335	1.261	0.8000	47200	50000	-5.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8792	0.7276	0.0100	41400	50000	-17.2	20.0
Chrysene	Ave	1.322	1.220	0.7000	46100	50000	-7.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558289/3 Calibration Date: 11/10/2020 10:35

Instrument ID: HP5973U Calib Start Date: 08/20/2020 12:57

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 08/20/2020 15:55

Lab File ID: U33159291.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.198	0.0100	38800	50000	-22.5*	20.0
Benzo(b)fluoranthene	Ave	1.229	1.262	0.7000	51400	50000	2.7	20.0
Benzo(k)fluoranthene	Ave	1.280	1.264	0.7000	49400	50000	-1.2	20.0
Benzo(a)pyrene	Ave	1.037	1.066	0.7000	51400	50000	2.8	20.0
Dibenz(a,h)anthracene	Ave	1.255	1.281	0.4000	51100	50000	2.1	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.511	1.518	0.5000	50200	50000	0.4	20.0
Benzo(g,h,i)perylene	Ave	1.279	1.276	0.5000	49900	50000	-0.2	20.0
2-Fluorophenol	Ave	1.315	1.293	0.0100	49200	50000	-1.7	20.0
Phenol-d5	Ave	1.579	1.536	0.0100	48600	50000	-2.7	20.0
Nitrobenzene-d5	Ave	0.4128	0.3791	0.0100	45900	50000	-8.1	20.0
2-Fluorobiphenyl	Ave	1.433	1.419	0.0100	49500	50000	-1.0	20.0
2,4,6-Tribromophenol	Lin2		0.1270	0.0100	52800	50000	5.5	20.0
p-Terphenyl-d14	Ave	1.053	0.9646	0.0100	45800	50000	-8.4	20.0

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab File ID: V3148093.D DFTPP Injection Date: 11/11/2020

Instrument ID: HP5973V DFTPP Injection Time: 13:07

Analysis Batch No.: 558569

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	43.7	
68	Less than 2% of mass 69	0.9	(2.0) 1
69	Mass 69 Relative abundance	44.1	
70	Less than 2% of mass 69	0.1	(0.3) 1
127	10-80% of Base Peak	48.6	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	21.5	
365	Greater than 1% of mass 198	2.8	
441	present but less than 24% of mass 442	9.7	(14.7) 2
442	Greater than 50% of mass 198	66.1	
443	15-24% of mass 442	12.8	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-558569/3	V3148094.D	11/11/2020	13:32
	MB 480-558252/1-A	V3148096.D	11/11/2020	14:22
	LCS 480-558252/2-A	V3148097.D	11/11/2020	14:46
SF-36-20-0-1 MS	480-177826-6 MS	V3148100.D	11/11/2020	16:00
SF-36-20-0-1 MSD	480-177826-6 MSD	V3148101.D	11/11/2020	16:25
SF-36-20-0-1	480-177826-6	V3148103.D	11/11/2020	17:15
FD-110520-3	480-177826-7	V3148114.D	11/11/2020	21:47
SF-34-20-0-1	480-177826-9	V3148115.D	11/11/2020	22:11
SB-56-20-1-5	480-177832-20	V3148116.D	11/11/2020	22:36
SB-43-20-0-0.5	480-177832-43	V3148117.D	11/11/2020	23:01

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Lab Sample ID: CCVIS 480-558569/3 Calibration Date: 11/11/2020 13:32

Instrument ID: HP5973V Calib Start Date: 10/28/2020 16:01

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/28/2020 18:55

Lab File ID: V3148094.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6592	0.5533	0.0100	42000	50000	-16.1	20.0
N-Nitrosodimethylamine	Ave	1.004	0.8311	0.0100	41400	50000	-17.2	50.0
Pyridine	Ave	1.286	1.024	0.0100	79600	100000	-20.4	50.0
Benzaldehyde	Ave	1.197	1.027	0.0100	42900	50000	-14.2	50.0
Phenol	Ave	2.076	1.838	0.8000	44300	50000	-11.4	20.0
Aniline	Ave	2.359	2.073	0.0100	43900	50000	-12.1	20.0
Bis(2-chloroethyl)ether	Ave	1.528	1.328	0.7000	43500	50000	-13.1	20.0
2-Chlorophenol	Ave	1.543	1.430	0.8000	46300	50000	-7.3	20.0
n-Decane	Ave	2.035	1.715	0.0100	42200	50000	-15.7	20.0
1,3-Dichlorobenzene	Ave	1.632	1.559	0.0100	47700	50000	-4.5	20.0
1,4-Dichlorobenzene	Ave	1.662	1.573	0.0100	47300	50000	-5.3	20.0
Benzyl alcohol	Ave	1.036	0.9406	0.0100	45400	50000	-9.2	20.0
1,2-Dichlorobenzene	Ave	1.566	1.468	0.0100	46900	50000	-6.3	20.0
Indene	Ave	0.6330	0.5783	0.0100	137000	150000	-8.7	20.0
2-Methylphenol	Ave	1.411	1.279	0.7000	45300	50000	-9.3	20.0
bis (2-chloroisopropyl) ether	Ave	2.593	1.961	0.0100	37800	50000	-24.4*	20.0
Acetophenone	Ave	2.006	1.908	0.0100	47600	50000	-4.9	20.0
N-Nitrosodi-n-propylamine	Ave	1.101	1.011	0.5000	45900	50000	-8.2	20.0
4-Methylphenol	Ave	1.475	1.335	0.6000	45200	50000	-9.5	20.0
Hexachloroethane	Ave	0.6600	0.6427	0.3000	48700	50000	-2.6	20.0
Nitrobenzene	Ave	0.3946	0.4087	0.2000	51800	50000	3.6	20.0
Isophorone	Ave	0.7013	0.7084	0.4000	50500	50000	1.0	20.0
2-Nitrophenol	Lin2		0.2021	0.1000	51000	50000	2.0	20.0
2,4-Dimethylphenol	Ave	0.3799	0.4038	0.2000	53100	50000	6.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4256	0.4181	0.3000	49100	50000	-1.8	20.0
Benzoic acid	Lin2		0.2282	0.0100	124000	150000	-17.2	50.0
2,4-Dichlorophenol	Ave	0.2983	0.3131	0.2000	52500	50000	5.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3276	0.3519	0.0100	53700	50000	7.4	20.0
Naphthalene	Ave	1.025	1.039	0.7000	50700	50000	1.4	20.0
4-Chloroaniline	Ave	0.4439	0.4508	0.0100	50800	50000	1.5	20.0
2,6-Dichlorophenol	Ave	0.2954	0.3148	0.0100	53300	50000	6.5	20.0
Hexachlorobutadiene	Ave	0.1903	0.2219	0.0100	58300	50000	16.6	20.0
Caprolactam	Lin2		0.1160	0.0100	50000	50000	-0.0	50.0
4-Chloro-3-methylphenol	Ave	0.3108	0.3391	0.2000	54500	50000	9.1	20.0
2-Methylnaphthalene	Ave	0.6765	0.7075	0.4000	52300	50000	4.6	20.0
1-Methylnaphthalene	Ave	0.6240	0.6443	0.0100	51600	50000	3.3	20.0
Hexachlorocyclopentadiene	Ave	0.4139	0.4709	0.0500	56900	50000	13.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5462	0.5827	0.0100	53300	50000	6.7	20.0
2,4,6-Trichlorophenol	Ave	0.3695	0.3873	0.2000	52400	50000	4.8	20.0
2,4,5-Trichlorophenol	Ave	0.3872	0.4063	0.2000	52500	50000	4.9	20.0

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-48-20-0-0.5 Lab Sample ID: 480-177721-1

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/12/2020 00:07 Date Analyzed (2): 11/12/2020 00:07

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	5.20	5.17	5.23	3.19	3.6	27.8
		2	5.28	5.25	5.31	3.73		
		3	5.63	5.60	5.66	3.46		
		4	5.73	5.70	5.76	4.14		
		5	5.88	5.84	5.90	3.72		
	2	1	5.01	4.98	5.04	8.58	4.8	
		2	5.19	5.16	5.22	3.49		
		3	5.43	5.40	5.46	4.05		
		4	5.52	5.49	5.55	3.99		
		5	5.74	5.70	5.76	4.00		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-15-20-4-5 Lab Sample ID: 480-177721-18

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 20:15 Date Analyzed (2): 11/16/2020 20:15

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1242	1	1	1.76	1.73	1.76	0.0910	0.073	48.7
		3	2.34	2.32	2.35	0.0532		
		4	2.81	2.79	2.82	0.0746		
		5	3.04	3.03	3.06	0.135		
	2	1	2.11	2.09	2.12	0.0604	0.12	
		2	2.23	2.21	2.24	0.227		
		3	2.50	2.48	2.51	0.128		
		4	2.81	2.79	2.82	0.0888		
		5	2.94	2.92	2.95	0.0917		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-13-20-0-0.5 Lab Sample ID: 480-177721-19

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/17/2020 16:52 Date Analyzed (2): 11/17/2020 16:52

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	42.6	140	63.3
		2	2.79	2.78	2.81	100		
		3	3.26	3.25	3.28	149		
		4	3.57	3.55	3.58	191		
		5	3.70	3.68	3.71	193		
	2	1	2.10	2.08	2.11	38.6	70	
		2	2.33	2.32	2.35	74.0		
		3	2.57	2.56	2.59	78.8		
		4	2.77	2.75	2.78	39.2		
		5	2.92	2.91	2.94	121		
PCB-1254	1	1	3.11	3.09	3.12	45.4	50	20.1
		2	3.20	3.18	3.21	51.2		
		3	3.48	3.47	3.50	68.2		
		4	3.57	3.55	3.58	65.3		
		5	4.12	4.11	4.14	19.5		
	2	1	2.80	2.79	2.82	162	61	
		2	2.97	2.95	2.98	39.2		
		3	3.25	3.23	3.26	44.8		
		4	3.44	3.42	3.45	42.6		
		5	3.82	3.80	3.83	17.1		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-12-20-0-0.5 Lab Sample ID: 480-177721-20

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 20:40 Date Analyzed (2): 11/16/2020 20:40

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	2	2.81	2.79	2.82	0.157	0.13	60.8
		3	3.27	3.26	3.29	0.100		
		4	3.58	3.56	3.59	0.212		
		5	3.72	3.69	3.72	0.195		
	2	1	2.10	2.09	2.12	0.0926	0.071	
		2	2.35	2.33	2.36	0.0557		
		3	2.59	2.57	2.60	0.0466		
		5	2.94	2.92	2.95	0.135		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-33-20-0-0.5 Lab Sample ID: 480-177721-23

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 21:17 Date Analyzed (2): 11/16/2020 21:17

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.34	2.32	2.35	0.253	0.65	37.4
		2	2.81	2.79	2.82	0.689		
		3	3.27	3.26	3.29	0.391		
		4	3.58	3.56	3.59	1.00		
		5	3.71	3.69	3.72	0.913		
	2	1	2.11	2.09	2.12	0.282	0.45	
		2	2.35	2.33	2.36	0.778		
		3	2.59	2.57	2.60	0.526		
		4	2.78	2.76	2.79	0.268		
		5	2.94	2.92	2.95	0.370		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-21-20-0-0.5 Lab Sample ID: 480-177721-25

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 21:30 Date Analyzed (2): 11/16/2020 21:30

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.34	2.32	2.35	0.148	0.18	95.9
		2	2.80	2.79	2.82	0.112		
		3	3.27	3.26	3.29	0.0545		
		4	3.58	3.56	3.59	0.290		
		5	3.71	3.69	3.72	0.285		
	2	1	2.11	2.09	2.12	0.148	0.063	
		2	2.35	2.33	2.36	0.0679		
		3	2.59	2.57	2.60	0.0395		
		5	2.94	2.92	2.95	0.0437		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-20-20-0-0.5 Lab Sample ID: 480-177721-27

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 21:42 Date Analyzed (2): 11/16/2020 21:42

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.34	2.32	2.35	0.156	0.58	73.6
		2	2.81	2.79	2.82	0.317		
		3	3.27	3.26	3.29	0.341		
		4	3.58	3.56	3.59	1.06		
		5	3.71	3.69	3.72	1.01		
	2	1	2.11	2.09	2.12	0.253	0.27	
		2	2.35	2.33	2.36	0.354		
		3	2.59	2.57	2.60	0.263		
		4	2.78	2.76	2.79	0.147		
		5	2.94	2.92	2.95	0.312		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-02-20-0-0.5 Lab Sample ID: 480-177721-29

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 21:54 Date Analyzed (2): 11/16/2020 21:54

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.34	2.32	2.35	0.269	0.73	47.4
		2	2.81	2.79	2.82	0.491		
		3	3.28	3.26	3.29	0.974		
		4	3.58	3.56	3.59	0.991		
		5	3.71	3.69	3.72	0.947		
	2	1	2.11	2.09	2.12	0.275	0.45	
		2	2.35	2.33	2.36	0.419		
		3	2.59	2.57	2.60	0.376		
		4	2.78	2.76	2.79	0.151		
		5	2.93	2.92	2.95	1.04		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-02-20-1-1.5 Lab Sample ID: 480-177721-30

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/16/2020 22:07 Date Analyzed (2): 11/16/2020 22:07

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.34	2.32	2.35	0.303	0.97	60.4
		2	2.81	2.79	2.82	0.809		
		3	3.27	3.26	3.29	0.523		
		4	3.58	3.56	3.59	1.59		
		5	3.71	3.69	3.72	1.61		
	2	1	2.10	2.09	2.12	0.492	0.52	
		2	2.35	2.33	2.36	0.660		
		3	2.59	2.57	2.60	0.638		
		4	2.78	2.76	2.79	0.282		
PCB-1260	1	1	3.71	3.71	3.74	0.742	0.28	19.7
		2	3.83	3.81	3.84	0.260		
		3	4.13	4.12	4.15	0.246		
	2	1	3.45	3.42	3.45	0.547	0.23	
		2	3.62	3.61	3.64	0.242		
		3	3.83	3.82	3.85	0.252		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SF-34-20-0-0.5 Lab Sample ID: 480-177826-8

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/19/2020 14:29 Date Analyzed (2): 11/19/2020 14:29

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.32	2.31	2.34	5.46	14	51.9
		2	2.79	2.78	2.81	8.43		
		3	3.26	3.24	3.27	13.3		
		4	3.56	3.55	3.58	20.7		
		5	3.69	3.68	3.71	23.2		
	2	1	2.09	2.08	2.11	4.51	8.4	
		2	2.33	2.32	2.35	8.40		
		3	2.57	2.56	2.59	8.28		
		4	2.76	2.75	2.78	10.1		
		5	2.92	2.91	2.94	10.5		
PCB-1260	1	1	3.69	3.69	3.72	10.8	3.7	50.7
		2	3.82	3.80	3.83	1.82		
		3	4.12	4.11	4.14	2.84		
		4	4.56	4.55	4.58	1.52		
		5	4.88	4.87	4.90	1.49		
	2	1	3.43	3.41	3.44	6.29	2.2	
		3	3.81	3.80	3.83	2.10		
		4	4.12	4.10	4.13	1.13		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-2-3 Lab Sample ID: 480-177826-19

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/19/2020 14:42 Date Analyzed (2): 11/19/2020 14:42

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	4.50	8.0	44.7
		2	2.79	2.78	2.81	9.84		
		3	3.26	3.24	3.27	5.87		
		4	3.56	3.55	3.58	10.3		
		5	3.69	3.68	3.71	9.27		
	2	1	2.09	2.08	2.11	3.80	5.1	
		2	2.33	2.32	2.35	7.46		
		3	2.57	2.56	2.59	5.49		
		4	2.77	2.75	2.78	4.04		
		5	2.92	2.91	2.94	4.45		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-4-5 Lab Sample ID: 480-177826-20

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 00:35 Date Analyzed (2): 11/20/2020 00:35

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.54	4.51	4.57	0.116	0.12	70.3
		2	4.58	4.55	4.61	0.155		
		3	4.80	4.78	4.84	0.134		
		4	5.06	5.03	5.09	0.102		
		5	5.35	5.32	5.38	0.0979		
	2	1	4.41	4.38	4.44	0.0891	0.058	
		2	4.60	4.57	4.63	0.0812		
		4	4.96	4.94	5.00	0.0498		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-05-20-6-7 Lab Sample ID: 480-177826-21

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 16:51 Date Analyzed (2): 11/20/2020 16:51

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	0.156	0.17	41.8
		2	4.58	4.55	4.61	0.203		
		3	4.80	4.77	4.83	0.176		
		4	5.06	5.03	5.09	0.144		
		5	5.34	5.31	5.37	0.154		
	2	1	4.41	4.38	4.44	0.136	0.11	
		2	4.60	4.57	4.63	0.125		
		3	4.92	4.89	4.95	0.0956		
		4	4.96	4.93	4.99	0.105		
		5	5.47	5.44	5.50	0.0828		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-2.8-3.8 Lab Sample ID: 480-177826-30

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 18:42 Date Analyzed (2): 11/20/2020 18:42

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1242	1	1	3.55	3.51	3.57	0.607	0.24	43.8
		2	4.27	4.24	4.30	0.0846		
		3	4.39	4.36	4.42	0.113		
		4	4.50	4.47	4.53	0.138		
		5	4.80	4.77	4.83	0.237		
	2	1	3.37	3.36	3.42	0.121	0.15	
		2	4.13	4.10	4.16	0.153		
		3	4.22	4.19	4.25	0.127		
		4	4.29	4.26	4.32	0.167		
		5	4.60	4.57	4.63	0.187		
PCB-1260	1	1	5.85	5.81	5.87	0.248	0.26	9.6
		2	5.96	5.93	5.99	0.233		
		3	6.39	6.36	6.42	0.441		
		4	7.06	7.03	7.09	0.226		
		5	7.69	7.66	7.72	0.161		
	2	1	5.68	5.64	5.70	0.372	0.29	
		2	5.88	5.85	5.91	0.249		
		3	6.17	6.13	6.19	0.417		
		4	6.59	6.56	6.62	0.165		
		5	6.89	6.86	6.92	0.238		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-04-20-4.8-5.8 Lab Sample ID: 480-177826-31

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 18:58 Date Analyzed (2): 11/20/2020 18:58

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	1.48	1.4	34.2
		2	4.58	4.55	4.61	1.49		
		3	4.80	4.77	4.83	1.52		
		4	5.06	5.03	5.09	1.10		
		5	5.34	5.31	5.37	1.28		
	2	1	4.41	4.38	4.44	1.50	1.9	
		2	4.60	4.57	4.63	1.42		
		3	4.92	4.89	4.95	0.977		
		4	4.96	4.93	4.99	2.01		
		5	5.47	5.44	5.50	3.79		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03-20-2-3 Lab Sample ID: 480-177826-34

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 19:46 Date Analyzed (2): 11/20/2020 19:46

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	1.11	1.1	54.1
		2	4.58	4.55	4.61	1.25		
		3	4.80	4.77	4.83	1.32		
		4	5.06	5.03	5.09	0.831		
		5	5.34	5.31	5.37	0.788		
	2	1	4.41	4.38	4.44	1.20	1.8	
		2	4.60	4.57	4.63	1.21		
		3	4.92	4.89	4.95	0.665		
		4	4.97	4.93	4.99	1.82		
		5	5.47	5.44	5.50	4.33		
PCB-1260	1	1	5.85	5.81	5.87	1.97	1.9	1.1
		2	5.96	5.93	5.99	1.87		
		3	6.39	6.36	6.42	2.32		
		4	7.06	7.03	7.09	1.67		
		5	7.69	7.66	7.72	1.59		
	2	1	5.68	5.64	5.70	2.38	1.9	
		2	5.88	5.85	5.91	1.87		
		3	6.17	6.13	6.19	2.13		
		4	6.60	6.56	6.62	1.50		
		5	6.89	6.86	6.92	1.65		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03-20-3-4 Lab Sample ID: 480-177826-35

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 20:33 Date Analyzed (2): 11/20/2020 20:33

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	0.579	0.59	28.6
		2	4.58	4.55	4.61	0.621		
		3	4.80	4.77	4.83	0.611		
		4	5.06	5.03	5.09	0.534		
		5	5.34	5.31	5.37	0.604		
	2	1	4.41	4.38	4.44	0.568	0.79	
		2	4.60	4.57	4.63	0.554		
		3	4.92	4.89	4.95	0.449		
		4	4.96	4.93	4.99	0.852		
		5	5.47	5.44	5.50	1.51		
PCB-1260	1	1	5.85	5.81	5.87	0.742	0.69	6.5
		2	5.96	5.93	5.99	0.677		
		3	6.39	6.36	6.42	0.782		
		4	7.06	7.03	7.09	0.633		
		5	7.69	7.66	7.72	0.603		
	2	1	5.68	5.64	5.70	0.946	0.73	
		2	5.88	5.85	5.91	0.672		
		3	6.17	6.13	6.19	0.750		
		4	6.60	6.56	6.62	0.676		
		5	6.89	6.86	6.92	0.623		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-1-1.5 Lab Sample ID: 480-177826-37

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 21:05 Date Analyzed (2): 11/20/2020 21:05

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	0.435	0.44	38.3
		2	4.58	4.55	4.61	0.516		
		3	4.80	4.77	4.83	0.448		
		4	5.06	5.03	5.09	0.370		
		5	5.34	5.31	5.37	0.454		
	2	1	4.41	4.38	4.44	0.548	0.66	
		2	4.60	4.57	4.63	0.418		
		3	4.92	4.89	4.95	0.300		
		4	4.96	4.93	4.99	0.765		
		5	5.47	5.44	5.50	1.24		
PCB-1260	1	1	5.85	5.81	5.87	0.222	0.18	19.5
		2	5.96	5.93	5.99	0.176		
		3	6.39	6.36	6.42	0.248		
		5	7.69	7.66	7.72	0.127		
	2	1	5.68	5.64	5.70	0.396	0.22	
		2	5.88	5.85	5.91	0.194		
		3	6.17	6.13	6.19	0.261		
		5	6.89	6.86	6.92	0.127		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-03A-20-2-3 Lab Sample ID: 480-177826-38

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/20/2020 21:21 Date Analyzed (2): 11/20/2020 21:21

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	0.470	0.59	12.3
		2	4.58	4.55	4.61	0.586		
		3	4.80	4.77	4.83	0.564		
		4	5.06	5.03	5.09	0.525		
		5	5.34	5.31	5.37	0.794		
	2	1	4.41	4.38	4.44	0.457	0.66	
		2	4.60	4.57	4.63	0.432		
		3	4.92	4.89	4.95	0.392		
		4	4.96	4.93	4.99	0.841		
		5	5.47	5.44	5.50	1.20		
PCB-1260	1	1	5.85	5.81	5.87	0.116	0.12	34.9
		2	5.96	5.93	5.99	0.115		
		3	6.39	6.36	6.42	0.209		
	2	1	5.69	5.64	5.70	0.393	0.17	
		2	5.88	5.85	5.91	0.124		
		3	6.17	6.13	6.19	0.188		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-10-20-2-2.5 Lab Sample ID: 480-177826-46

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 15:08 Date Analyzed (2): 11/20/2020 15:08

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1242	1	1	1.74	1.72	1.75	0.0648	0.19	49.7
		2	2.03	2.01	2.04	0.169		
		3	2.32	2.31	2.34	0.216		
		4	2.79	2.77	2.80	0.270		
		5	3.02	3.01	3.04	0.236		
	2	1	2.09	2.07	2.10	0.287	0.32	
		2	2.21	2.20	2.23	0.427		
		3	2.48	2.46	2.49	0.542		
		4	2.79	2.78	2.81	0.137		
		5	2.92	2.90	2.93	0.197		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-11-20-1-5 Lab Sample ID: 480-177826-48

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 15:32 Date Analyzed (2): 11/20/2020 15:32

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1242	1	1	1.74	1.72	1.75	0.103	0.16	41.4
		2	2.03	2.01	2.04	0.125		
		3	2.32	2.31	2.34	0.183		
		4	2.79	2.77	2.80	0.213		
		5	3.02	3.01	3.04	0.179		
	2	1	2.09	2.07	2.10	0.155	0.24	
		2	2.21	2.20	2.23	0.368		
		3	2.48	2.46	2.49	0.358		
		4	2.79	2.78	2.81	0.0991		
		5	2.92	2.90	2.93	0.244		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-19-20-1-1.5 Lab Sample ID: 480-177826-51

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 16:34 Date Analyzed (2): 11/20/2020 16:34

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	2	3.19	3.18	3.21	0.166	0.21	29.6
		3	3.48	3.46	3.49	0.212		
		4	3.56	3.55	3.58	0.223		
		5	4.12	4.10	4.13	0.365		
	2	1	2.80	2.78	2.81	0.122	0.16	
		2	2.97	2.95	2.98	0.170		
		3	3.24	3.22	3.25	0.110		
		4	3.43	3.41	3.44	0.164		
		5	3.81	3.80	3.83	0.223		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-44-20-4-5 Lab Sample ID: 480-177832-2

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 17:24 Date Analyzed (2): 11/20/2020 17:24

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	0.191	0.29	26.3
		2	2.79	2.77	2.80	0.413		
		3	3.26	3.24	3.27	0.275		
		4	3.56	3.55	3.58	0.302		
		5	3.69	3.68	3.71	0.289		
	2	1	2.10	2.07	2.10	0.337	0.38	
		2	2.33	2.31	2.34	0.641		
		3	2.57	2.55	2.58	0.476		
		4	2.76	2.75	2.78	0.139		
		5	2.92	2.90	2.93	0.322		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-31-20-1-1.5 Lab Sample ID: 480-177832-5

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 18:01 Date Analyzed (2): 11/20/2020 18:01

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	3.59	5.8	39.1
		2	2.79	2.77	2.80	4.72		
		3	3.25	3.24	3.27	4.11		
		4	3.56	3.55	3.58	8.20		
		5	3.70	3.68	3.71	8.40		
	2	1	2.09	2.07	2.10	3.94	3.9	
		2	2.33	2.31	2.34	4.87		
		3	2.57	2.55	2.58	3.97		
		4	2.76	2.75	2.78	2.40		
		5	2.92	2.90	2.93	4.35		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-29-20-3-4 Lab Sample ID: 480-177832-12

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/21/2020 00:31 Date Analyzed (2): 11/21/2020 00:31

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	0.105	0.11	33.9
		2	4.58	4.55	4.61	0.142		
		3	4.80	4.77	4.83	0.120		
		4	5.06	5.03	5.09	0.0550		
		5	5.34	5.31	5.37	0.139		
	2	1	4.41	4.38	4.44	0.0934	0.080	
		2	4.60	4.57	4.63	0.0669		
		4	4.96	4.93	4.99	0.0978		
		5	5.47	5.44	5.50	0.140		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-28-20-0-0.5 Lab Sample ID: 480-177832-25

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/21/2020 03:57 Date Analyzed (2): 11/21/2020 03:57

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	5.16	5.13	5.19	2.73	3.8	35.2
		2	5.24	5.21	5.27	3.41		
		3	5.58	5.55	5.61	3.61		
		4	5.68	5.65	5.71	4.85		
		5	5.82	5.79	5.85	4.53		
	2	1	4.96	4.94	5.00	11.7	5.5	
		2	5.14	5.11	5.17	2.88		
		3	5.39	5.36	5.42	4.33		
		4	5.47	5.44	5.50	4.60		
		5	5.69	5.65	5.71	3.83		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-28-20-4-5 Lab Sample ID: 480-177832-27

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/21/2020 04:29 Date Analyzed (2): 11/21/2020 04:29

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.53	4.50	4.56	2.01	2.0	28.6
		2	4.58	4.55	4.61	1.92		
		3	4.80	4.77	4.83	1.99		
		4	5.06	5.03	5.09	1.60		
		5	5.34	5.31	5.37	2.26		
	2	1	4.41	4.38	4.44	2.08	2.6	
		2	4.60	4.57	4.63	2.00		
		3	4.92	4.89	4.95	1.68		
		4	4.96	4.93	4.99	3.32		
		5	5.47	5.44	5.50	3.96		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-27-20-0-0.5 Lab Sample ID: 480-177832-28

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/21/2020 04:45 Date Analyzed (2): 11/21/2020 04:45

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.54	4.50	4.56	3.79	4.0	36.3
		2	4.58	4.55	4.61	3.49		
		3	4.80	4.77	4.83	3.25		
		4	5.06	5.03	5.09	3.39		
		5	5.34	5.31	5.37	5.93		
	2	1	4.41	4.38	4.44	4.04	5.7	
		2	4.60	4.57	4.63	3.07		
		3	4.92	4.89	4.95	3.74		
		4	4.96	4.93	4.99	7.40		
		5	5.47	5.44	5.50	10.4		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-26-20-0-0.5 Lab Sample ID: 480-177832-31

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/29/2020 19:59 Date Analyzed (2): 11/29/2020 19:59

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.52	4.49	4.55	1.84	2.3	36.3
		2	4.57	4.53	4.59	1.88		
		3	4.79	4.75	4.81	2.17		
		4	5.05	5.01	5.07	2.32		
		5	5.32	5.30	5.36	3.13		
	2	1	4.39	4.36	4.42	1.90	3.3	
		2	4.58	4.55	4.61	2.04		
		3	4.91	4.87	4.93	2.23		
		4	4.95	4.92	4.98	3.53		
		5	5.46	5.42	5.48	6.68		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-46-20-0-0.5 Lab Sample ID: 480-177832-37

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/29/2020 21:18 Date Analyzed (2): 11/29/2020 21:18

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.52	4.49	4.55	0.816	0.81	31.9
		2	4.56	4.53	4.59	0.843		
		3	4.79	4.75	4.81	0.864		
		4	5.05	5.01	5.07	0.419		
		5	5.32	5.30	5.36	1.08		
	2	1	4.39	4.36	4.42	0.809	1.1	
		2	4.58	4.55	4.61	0.851		
		3	4.91	4.87	4.93	0.277		
		4	4.95	4.92	4.98	1.36		
		5	5.46	5.42	5.48	2.25		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-45-20-2-3 Lab Sample ID: 480-177832-41

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/29/2020 22:54 Date Analyzed (2): 11/29/2020 22:54

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.52	4.49	4.55	1.20	0.98	26.8
		2	4.56	4.53	4.59	1.16		
		3	4.78	4.75	4.81	0.806		
		4	5.04	5.01	5.07	0.959		
		5	5.32	5.30	5.36	0.747		
	2	1	4.39	4.36	4.42	1.25	1.3	
		2	4.58	4.55	4.61	0.765		
		3	4.91	4.87	4.93	0.957		
		4	4.95	4.92	4.98	1.63		
		5	5.46	5.42	5.48	1.79		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177721-1

SDG No.: 480-177721

Client Sample ID: SB-43-20-0-0.5 Lab Sample ID: 480-177832-43

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/29/2020 23:25 Date Analyzed (2): 11/29/2020 23:25

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	4.52	4.49	4.55	1.62	1.5	31.0
		2	4.56	4.53	4.59	1.22		
		3	4.79	4.75	4.81	1.19		
		4	5.04	5.01	5.07	1.65		
		5	5.32	5.30	5.36	2.03		
	2	1	4.39	4.36	4.42	1.64	2.1	
		2	4.58	4.55	4.61	1.10		
		3	4.91	4.87	4.93	1.86		
		4	4.95	4.92	4.98	2.61		
		5	5.46	5.42	5.48	3.34		

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SB-48-20-0-0.5 MS
Lab ID: 480-177721-1 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-177721-1
SDG No.: 480-177721
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 93.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	34190		18100		2270	710	75-125	4	6010C
Antimony	17.60		ND		45.3	39	75-125	F1	6010C
Arsenic	39.98		4.0		45.3	79	75-125		6010C
Barium	223.2		138		45.3	189	75-125	^ F1	6010C
Beryllium	38.16		1.1		45.3	82	75-125		6010C
Cadmium	36.85		0.15	J	45.3	81	75-125		6010C
Calcium	8785		29800		2270	-926	75-125	4	6010C
Chromium	72.91		48.5		45.3	54	75-125	F1	6010C
Cobalt	63.72		15.9		45.3	105	75-125		6010C
Copper	59.37		76.4		45.3	-38	75-125	F1	6010C
Iron	24440		34900		2270	-460	75-125	4	6010C
Lead	63.59		72.0		45.3	-19	75-125	F1	6010C
Magnesium	9176		13900		2270	-208	75-125	4	6010C
Manganese	260.4		514		45.3	-559	75-125	4	6010C
Nickel	91.70		97.8		45.3	-13	75-125	F1	6010C
Potassium	10910		3010		2270	348	75-125	F1	6010C
Selenium	35.43		ND		45.3	78	75-125		6010C
Silver	9.67		0.40	J	11.3	82	75-125		6010C
Sodium	1977		149		2270	80	75-125		6010C
Thallium	44.34		ND		45.3	98	75-125		6010C
Vanadium	95.73		31.8		45.3	141	75-125	F1	6010C
Zinc	95.65		120		45.3	-54	75-125	F1	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SF-36-20-0-1 MS
Lab ID: 480-177826-6 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-177721-1
SDG No.: 480-177721
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 92.8

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	7150		4130		2180	138	75-125	F1	6010C
Antimony	33.86		ND		43.7	78	75-125		6010C
Arsenic	43.06		3.7		43.7	90	75-125		6010C
Barium	69.36		49.0		43.7	47	75-125	^ F1	6010C
Beryllium	38.62		0.41		43.7	87	75-125		6010C
Cadmium	39.09		ND		43.7	90	75-125		6010C
Calcium	166600		135000		2180	1462	75-125	4	6010C
Chromium	80.29		88.4		43.7	-19	75-125	F1	6010C
Cobalt	48.40		9.7		43.7	89	75-125		6010C
Copper	97.54		141		43.7	-100	75-125	F1	6010C
Iron	24810		48400		2180	-1082	75-125	4	6010C
Lead	77.24		71.1		43.7	14	75-125	F1	6010C
Magnesium	10750		16800		2180	-277	75-125	4	6010C
Manganese	469.5		747		43.7	-636	75-125	4	6010C
Nickel	121.9		155		43.7	-76	75-125	F1	6010C
Potassium	3885		1080		2180	128	75-125	F1	6010C
Selenium	38.76		ND		43.7	89	75-125		6010C
Silver	10.46		0.80		10.9	89	75-125		6010C
Sodium	2131		182		2190	89	75-125		6010C
Thallium	39.56		ND		43.7	91	75-125		6010C
Vanadium	50.42		12.4		43.7	87	75-125		6010C
Zinc	108.7		133		43.7	-55	75-125	F1	6010C
Hg	0.371		0.028		0.337	102	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SB-48-20-0-0.5 MSD
Lab ID: 480-177721-1 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-177721-1
SDG No.: 480-177721
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 93.0

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	30770		2110	600	75-125	11	20	4	6010C
Antimony	13.89	J	42.3	33	75-125	24	20	F1 F2	6010C
Arsenic	37.49		42.3	79	75-125	6	20		6010C
Barium	206.4		42.3	163	75-125	8	20	^ F1	6010C
Beryllium	33.98		42.3	78	75-125	12	20		6010C
Cadmium	32.96		42.3	78	75-125	11	20		6010C
Calcium	11430		2110	-868	75-125	26	20	4 F2	6010C
Chromium	73.47		42.3	59	75-125	1	20	F1	6010C
Cobalt	61.35		42.3	108	75-125	4	20		6010C
Copper	68.38		42.3	-19	75-125	14	20	F1	6010C
Iron	32250		2110	-125	75-125	28	20	4 F2	6010C
Lead	71.27		42.3	-2	75-125	11	20	F1	6010C
Magnesium	10140		2110	-177	75-125	10	20	4	6010C
Manganese	393.0		42.3	-286	75-125	41	20	4 F2	6010C
Nickel	101.1		42.3	8	75-125	10	20	F1	6010C
Potassium	9954		2110	328	75-125	9	20	F1	6010C
Selenium	31.64		42.3	75	75-125	11	20		6010C
Silver	8.65		10.6	78	75-125	11	20		6010C
Sodium	1771		2120	77	75-125	11	20		6010C
Thallium	40.35		42.3	95	75-125	9	20		6010C
Vanadium	90.60		42.3	139	75-125	5	20	F1	6010C
Zinc	102.8		42.3	-41	75-125	7	20	F1	6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SF-36-20-0-1 MSD
Lab ID: 480-177826-6 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-177721-1
SDG No.: 480-177721
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 92.8

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	12650		2100	406	75-125	56	20	F1 F2	6010C
Antimony	25.44		42.0	61	75-125	28	20	F1 F2	6010C
Arsenic	40.29		42.0	87	75-125	7	20		6010C
Barium	137.1		42.0	210	75-125	66	20	^ F1 F2	6010C
Beryllium	36.66		42.0	86	75-125	5	20		6010C
Cadmium	36.50		42.0	87	75-125	7	20		6010C
Calcium	128400		2100	-300	75-125	26	20	4 F2	6010C
Chromium	97.13		42.0	21	75-125	19	20	F1	6010C
Cobalt	53.49		42.0	104	75-125	10	20		6010C
Copper	130.0		42.0	-27	75-125	29	20	F1 F2	6010C
Iron	32260		2100	-771	75-125	26	20	4 F2	6010C
Lead	93.38		42.0	53	75-125	19	20	F1	6010C
Magnesium	18500		2100	81	75-125	53	20	4 F2	6010C
Manganese	1000		42.0	603	75-125	72	20	4 F2	6010C
Nickel	162.9		42.0	19	75-125	29	20	F1 F2	6010C
Potassium	4039		2100	141	75-125	4	20	F1	6010C
Selenium	35.99		42.0	86	75-125	7	20		6010C
Silver	10.40		10.5	92	75-125	1	20		6010C
Sodium	2069		2100	90	75-125	3	20		6010C
Thallium	37.60		42.0	90	75-125	5	20		6010C
Vanadium	49.17		42.0	88	75-125	3	20		6010C
Zinc	173.8		42.0	98	75-125	46	20	F2	6010C
Hg	0.367		0.328	103	80-120	1	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: SB-48-20-0-0.5 PDS
Lab ID: 480-177721-1 PDS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-177721-1
SDG No.: 480-177721
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	18870		18100		2060	38	80-120	W	6010C
Antimony	32.97		ND		41.3	80	80-120		6010C
Arsenic	40.01		4.0		41.3	87	80-120		6010C
Barium	164.1		138		41.3	64	80-120	W ^	6010C
Beryllium	36.08		1.1		41.3	85	80-120		6010C
Cadmium	35.72		0.15	J	41.3	86	80-120		6010C
Calcium	30170		29800		2060	NC	80-120		6010C
Chromium	79.46		48.5		41.3	75	80-120	W	6010C
Cobalt	56.32		15.9		41.3	98	80-120		6010C
Copper	107.2		76.4		41.3	75	80-120	W	6010C
Iron	34590		34900		2060	NC	80-120		6010C
Lead	109.9		72.0		41.3	92	80-120		6010C
Magnesium	14930		13900		2060	51	80-120	W	6010C
Manganese	523.2		514		41.3	NC	80-120		6010C
Nickel	134.4		97.8		41.3	89	80-120		6010C
Potassium	4586		3010		2060	76	80-120	W	6010C
Selenium	34.70		ND		41.3	84	80-120		6010C
Silver	9.23		0.40	J	10.3	86	80-120		6010C
Sodium	1875		149		2070	84	80-120		6010C
Thallium	41.13		ND		41.3	100	80-120		6010C
Vanadium	63.71		31.8		41.3	77	80-120	W	6010C
Zinc	146.1		120		41.3	63	80-120	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-177721-1

SDG No: 480-177721

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-177721-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	18100		22030		22	V	6010C
Antimony	ND		ND		NC		6010C
Arsenic	4.0		5.05	J	NC		6010C
Barium	138		171.7		25	^ V	6010C
Beryllium	1.1		1.41		27	V	6010C
Cadmium	0.15	J	0.268	J	NC		6010C
Calcium	29800		38110		28	V	6010C
Chromium	48.5		59.80		23	V	6010C
Cobalt	15.9		15.22		4.4		6010C
Copper	76.4		89.11		17	V	6010C
Iron	34900		44290		27	V	6010C
Lead	72.0		71.59		0.56		6010C
Magnesium	13900		16610		20	V	6010C
Manganese	514		642.0		25	V	6010C
Nickel	97.8		95.07		2.8		6010C
Potassium	3010		3599		20	V	6010C
Selenium	ND		ND		NC		6010C
Silver	0.40	J	ND		NC		6010C
Sodium	149		174.0	J	NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	31.8		37.68		19	V	6010C
Zinc	120		151.0		26	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

Chain of Custody Record

391446

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutmann	Site Contact: K. McGowan	Date:	COC No:
Company Name: Arcom	Tel/Email:	Lab Contact:	Carrier:	1 of 3 COCs
Address: 257 W. Genesee St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO # 60433654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB's (8082A)	VOCs (8260C)	SVOC's (8270D)	Total Metals (Cr, Pb)	Sample Specific Notes:
SB-36-20-1.0-1.5	11/9/20	0809	G	SO	1			X				
SB-36-20-5.0-6.0		0810	G	SO	1			X				
SB-37-20-0.6-3.0		0822	G	SO	1			X				
SB-37-20-3.0-5.0		0825	G	SO	1			X				
SB-34-20-3.0-4.0		0842	G	SO	1			X				
SB-34-20-4.0-5.0		0845	G	SO	1			X				
SB-34-20-0.0-0.5		0841	G	SO	1			X				
FD-110920-1		-	G	SO	1			X				
SB-35-20-0.0-0.5-MS/MSD		0915	G	SO	3		X	X				(MS/MSD)
SB-35-20-8.0-9.0	11/9/20	0920	G	SO	4			X	X			# of Cont = 4
~~SB-35-20~~ SIC 11/9												
SB-38-20-0.0-0.5	11/9/20	0945	G	SO	1			X				

480-177876 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

CAN PCB FRANMARICK @ 716-923-1121 3.2 #1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Arcom	11/9/20, 15:18	SD	TA	11/9/20 15:38
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

391447

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Cartmann	Site Contact: B. McGovern	Date:	COC No:
Company Name: Arcadis	Tel/Email:	Lab Contact:	Carrier:	2 of 3 COCs
Address: 257 W. Genesee St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO # 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB's (8082A)	VOCs (8260C)	SVOCs (8270D)	TAL Metals +Hg (6010C) 7421A	Sample Specific Notes:
SB-38-20-1.0-1.5	11/9/20	0950	G	SO	1			X				
SB-38-20-3.0-4.0		0955	G	SO	1			X				
SB-39-20-0.0-0.5		1015	G	SO	1			X				
SB-39-20-1.0-1.5		1016	G	SO	1			X				
SB-39-20-5.0-5.5		1017	G	SO	4			X	X			
SB-40-20-1.0-1.5		1040	G	SO	1			X				
SB-40-20-5.0-6.0		1040	G	SO	1			X				
SB-49-20-0.0-0.5		1118	G	SO	1			X				
SB-49-20-1.5-2.0		1120	G	SO	1			X				
SB-55-20-0.0-0.5		1138	G	SO	1			X				
SB-55-20-5.0-6.0		1139	G	SO	1			X				
SB-55-20-7.0-8.0	11/9/20	1140	G	SO	4			X	X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Call PM Fairbanks @ 716-923-1121

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company: Arcadis	Date/Time: 11/9/20 15:15	Received by: SD	Company: TA	Date/Time: 11/9/20 15:38
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

12/15/2020

Chain of Custody Record

391448

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: M. Gutmann	Site Contact: B. McGowan	Date:	COC No:
Company Name: Arcom	Tel/Email:	Lab Contact:	Carrier:	3 of 3 COCs
Address: 257 W. Genesee St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-856-5636	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO # G0633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	VOCs (8260C)	SVOCs (8270D)	TCL Metals + Hg (6010C/7471B)	Sample Specific Notes:
SB-42-20-0.0-1.0	11/6/20	1227	G	SO	1			X				
SB-42-20-2.5-3.5		1230	G	SO	1			X				
SB-41-20-0.0-1.5		1239	G	SO	1			X				
SB-41-20-3.0-4.0		1240	G	SO	1			X				
SB-22-20-1.0-1.5		1301	G	SO	1			X				
SB-22-20-2.0-2.5		1302	G	SO	1			X				
SB-22-20-4.0-4.5		1303	G	SO	1			X				
SB-20-20-1.0-1.5		1315	G	SO	1			X				
SB-20-20-1.5-2.5		1316	G	SO	1			X				
SB-20-20-4.0-4.5	11/9/20	1320	G	SO	1			X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Can Pick Fainman @ 716-923-1129

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Arcom	11/9/20 15:18		TA	11/9/20 15:38
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

12/15/2020

Chain of Custody Record

391390

eurofins | Environment Testing TestAmerica

dress: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: Mike Gutmann	Site Contact: K. McGovern	Date:	COC No:
mpany Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	1 of 2 COCs
ress: 257 W. Genesee St	Analysis Turnaround Time			Sampler: TU/SC
/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
ne: 716-856-5636	TAT if different from Below _____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
ect Name: Tonawanda Forge	☐ 1 week			
	☐ 2 days			Job / SDG No.:
# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs (8082A)	SVOCs (8270D)	TAL Metals + Hg 6010S TAL TAL/TA	Sample Specific Notes:
SF-01-20-0.6-1.1	11/10/20	0825	G	SO	1			X			
SF-03-20-1.2-1.7		0925	G	SO	1			X			
SF-02-20-1.1-1.6		0945	G	SO	1			X			
SF04-20-1.2-1.7		1010	G	SO	1			X			limited volume
SF-11-20-1.1-1.6		1030	G	SO	1			X			
F-16-20-1.0-1.5		1055	G	SO	1			X			
F-5-20-0.8-1.3		1120	G	SO	1			X			
F-5-20-0.8-1.8		1120	G	SO	1				X	X	
F-15-20-0.8-1.3		1145	G	SO	1			X			
F-14-20-0.9-1.4		1255	G	SO	1			X			
F-18-20-1.1-1.6		1315	G	SO	1			X			
~~F-17-20-0.6-1.1~~		~~1340~~	~~G~~	~~SO~~	~~1~~			~~X~~			~~T.U. 11/10/20~~

480-178050 Chain of Custody

ervation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

sible Hazard Identification:
any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the
ments Section if the lab is to dispose of the sample.

Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

cial Instructions/QC Requirements & Comments:

#1 2.8

ustody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
nquished by:	AECOM	11/11/20 1610		TA	11/11/20 16:10
nquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
nquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Page 154 of 316

2/15/2020

Chain of Custody Record

391391

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: Mike Gutmann	Site Contact: K. McGovern	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	2 of 2 COCs
Address: 257 W. Genesee St	Analysis Turnaround Time			Sampler: TJ/SC
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-856-5636	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO # 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	Sample Specific Notes:
SF-32-20-1.3-1.8	11/6/20	1430	G	SO	1			X	
SF-05-20-1.1-1.6	11/10/20	1450	G	SO	1			X	
SF-06-20-0.9-1.4	11/11/20	0910	G	SO	1			X	
SF-07-20-0.8-1.3	11/11/20	0930	G	SO	1			X	
SF-08-20-0.7-1.2	11/11/20	955	G	SO	1			X	
SF-09-20-0.7-1.2	11/11/20	1040	G	SO	1			X	
SF-10-20-1.1-1.6	11/11/20	1100	G	SO	1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: AECOM	Date/Time: 11/11/20 1610	Received by:	Company: TA	Date/Time: 11/11/20 16:10
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

12/15/2020

Chain of Custody Record

391392

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-8210

Client Contact	Project Manager: Mike Gutmann	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	1 of 3 COCs
Address: 257 W. Genesee St	Analysis Turnaround Time			Sampler: TU / SC
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-856-5636	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO # 60033654	☐ 1 day			

480-178191 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	Sample Specific Notes:
BC-01-20	11/12/20	0745	G	SX	1			X	brick chip
CC-02-20	11/12/20	0830	G	SC	1			X	concrete chip
CC-03-20	11/12/20	0845	G	SC	1			X	concrete chip
CC-04-20	11/12/20	0850	G	SC	1			X	concrete chip
FD-111220-1	11/12/20	—	G	SC	1			X	Field Duplicate concrete chip
BC-05-20	11/12/20	0920	G	SX	1			X	brick chip
BC-06-20	11/12/20	0930	G	SX	1			X	brick chip
FD-111220-2	11/12/20	—	G	SX	1			X	Field Duplicate brick chip
CC-07-20	11/12/20	1000	G	SC	1			X	concrete chip
CC-08-20	11/12/20	1010	G	SC	1			X	concrete chip
CC-09-20	11/12/20	1020	G	SC	1			X	concrete chip
CC-10-20	11/12/20	1030	G	SC	1			X	concrete chip

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.9 Corr'd: _____ | Therm ID No.: #1 ICE

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom [signature]	AECOM	11/13/20 925			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 11/13/20 935

Chain of Custody Record

391393

eurofins | Environment Testi
TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-821

Client Contact	Project Manager: Mike Gutman	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	2 of 3 COCs
Address: 257 W. Genesee St	Analysis Turnaround Time			Sampler: TU/SC
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-856-5636	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs (8082A)	Sample Specific Notes:
BC-11-20	11/12/20	1120	G	SX	1			X	brick chip
BC-12-20	11/12/20	1130	G	SX	1			X	brick chip
BC-13-20	11/12/20	1140	G	SX	1			X	brick chip
BC-14-20	11/12/20	1220	G	SX	1			X	brick chip
BC-15-20	11/12/20	1230	G	SX	1			X	brick chip
BC-16-20	11/12/20	1305	G	SX	1			X	brick chip
BC-17-20	11/12/20	1320	G	SX	1			X	brick chip
BC-18-20	11/12/20	1400	G	SX	1			X	brick chip
WC-19-20	11/12/20	1440	G		1			X	wood chip
FD-111220-3	11/12/20	-	G		1			X	Field duplicate wood chip
CC-20-20	11/12/20	1450	G	SC	1			X	concrete chip
WC-21-20	11/12/20	1455	G		1			X	wood chip

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
please fill in/use Matrix code for wood chip sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Tom Uhler	Company: AECOM	Date/Time: 11/13/20 935	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 11/13/20 935

Chain of Custody Record

391394

eurofins | Environment Testi TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NYSDEC

TAL-821

Client Contact	Project Manager: Mike Gutmann	Site Contact:	Date:	COC No:
Company Name: AECOM	Tel/Email:	Lab Contact:	Carrier:	3 of 3 COCs
Address: 257 W Genesee St	Analysis Turnaround Time			Sampler: TJ/SK
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-856-5636	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tonawanda Forge	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 60633654	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB's (8082A)	Sample Specific Notes:
CC-22-20	11/12/20	1510	G	SC	1			X	concrete chip
BC-23-20	11/12/20	1525	G	SX	1			X	brick chip
BC-24-20	11/12/20	1535	G	SX	1			X	brick chip
BC-25-20	11/12/20	1545	G	SX	1			X	brick chip

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Uhlman	AECOM	11/13/2035			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				JA	11/13/20 935

Job Narrative
480-177876-1

Receipt
The samples were received on 11/9/2020 3:38 PM, 11/11/2020 4:10 PM and 11/13/2020 9:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.8º C, 3.2º C and 3.9º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-558565 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB-35-20-8.0-9.0 (480-177876-10).

Method 8260C: The surrogate Dibromofluoromethane (SURR) was outside the 20%D limits on the continuing calibration verification (CCV) but was within laboratory limits. The following samples are impacted: SB-35-20-8.0-9.0 (480-177876-10).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-558659 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCVIS were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: SB-39-20-5.0-5.5 (480-177876-16) and SB-55-20-7.0-8.0 (480-177876-23).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-558659 recovered above the upper control limit for Bromomethane. The samples associated with this CCVIS were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: SB-39-20-5.0-5.5 (480-177876-16) and SB-55-20-7.0-8.0 (480-177876-23).

Method 8260C: The following sample was analyzed using medium level soil analysis due to the nature of the sample matrix: SB-35-20-8.0-9.0 (480-177876-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560544 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SF-35-20-0.8-1.8 (480-178050-8).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560544 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-560544 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-559875 and analytical batch 480-560544 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: SF-35-20-0.8-1.8 (480-178050-8). Therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: Surrogate recovery for the following sample was outside control limits: SB-37-20-0.6-3.0 (480-177876-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: SB-34-20-3.0-4.0 (480-177876-5) and SB-34-20-4.0-5.0 (480-177876-6). The sample(s) has been quantified and reported as Aroclor PCB-1248. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following sample: SB-34-20-3.0-4.0 (480-177876-5). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-36--20-5.0-6.0 (480-177876-2) and FD-110920-1 (480-177876-8). Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SF-03-20-1.2-1.7 (480-178050-2). Elevated reporting limits (RLs) are provided.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-559768 and analytical batch 480-560766 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-559768 and analytical batch 480-560766 was outside control limits. Sample matrix interference is suspected.

Method 8082A: The continuing calibration verification (CCV) associated with batch 480-560766 recovered above the upper control limit for PCB-1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SB-35-20-0.0-0.5 (480-177876-9), SB-38-20-0.0-0.5 (480-177876-11), SB-38-20-1.0-1.5 (480-177876-12), SB-38-20-3.0-4.0 (480-177876-13), SB-39-20-1.0-1.5 (480-177876-15), SB-39-20-5.0-5.5 (480-177876-16), SB-40-20-1.5-1.5 (480-177876-17), SB-40-20-5.0-6.0 (480-177876-18), SB-49-20-0.0-0.5 (480-177876-19), SB-49-20-1.5-2.0 (480-177876-20), SB-55-20-0.0-0.5 (480-177876-21), SB-55-20-5.0-6.0 (480-177876-22), SB-55-20-7.0-8.0 (480-177876-23) and SB-42-20-0.0-1.0 (480-177876-24).

Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-560766/6) that had recoveries for the surrogate Decachlorobiphenyl that were below acceptance limits: SB-35-20-0.0-0.5 (480-177876-9), SB-38-20-0.0-0.5 (480-177876-11), SB-38-20-1.0-1.5 (480-177876-12), SB-38-20-3.0-4.0 (480-177876-13), SB-39-20-1.0-1.5 (480-177876-15), SB-39-20-5.0-5.5 (480-177876-16), SB-40-20-1.5-1.5 (480-177876-17), SB-40-20-5.0-6.0 (480-177876-18), SB-49-20-0.0-0.5 (480-177876-19), SB-49-20-1.5-2.0 (480-177876-20), SB-55-20-0.0-0.5 (480-177876-21), SB-55-20-5.0-6.0 (480-177876-22), SB-55-20-7.0-8.0 (480-177876-23) and SB-42-20-0.0-1.0 (480-177876-24). The secondary surrogate Tetrachloro-m-xylene is within limits. Therefore, the data has been reported.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-38-20-0.0-0.5 (480-177876-11), SB-38-20-1.0-1.5 (480-177876-12), SB-49-20-1.5-2.0 (480-177876-20) and SB-42-20-0.0-1.0 (480-177876-24). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SF-16-20-1.0-1.5 (480-178050-6), CC-07-20 (480-178191-9), CC-08-20 (480-178191-10), BC-12-20 (480-178191-14), BC-13-20 (480-178191-15), BC-15-20 (480-178191-17), BC-18-20 (480-178191-20), WC-19-20 (480-178191-21) and FD-111220-3 (480-178191-22). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to abundance of target analytes : SF-16-20-1.0-1.5 (480-178050-6), CC-08-20 (480-178191-10), BC-15-20 (480-178191-17) and WC-19-20 (480-178191-21). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: CC-04-20 (480-178191-4), FD-111220-1 (480-178191-5) and BC-06-20 (480-178191-7). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-35-20-8.0-9.0 (480-177876-10), SB-39-20-0.0-0.5 (480-177876-14), SB-41-20-0.0-1.5 (480-177876-26) and WC-21-20 (480-178191-24). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: CC-24-20 (480-178191-27) and CC-25-20 (480-178191-28). Elevated reporting limits (RLs) are provided.

Method 8082A: The continuing calibration verification (CCV) associated with batch 480-561244 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SF-06-20-0.9-1.4 (480-178050-14).

Method 8082A: The following sample is associated with a continuing calibration verification (CCVIS 480-561244/13) that had recoveries for the surrogate Decachlorobiphenyl that were above acceptance limits: SF-06-20-0.9-1.4 (480-178050-14). The secondary surrogate Tetrachloro-m-xylene is within limits; therefore, the data has been reported.

Method 8082A: The following samples are associated with a method blank (MB 480-560096/1) and a laboratory control sample (LCS 480-560096/2) that had recoveries for the surrogate Decachlorobiphenyl that were above acceptance limits: SF-35-20-0.8-1.3 (480-178050-7), SF-15-20-0.8-1.3 (480-178050-9), SF-14-20-0.9-1.4 (480-178050-10), SF-18-20-1.1-1.6 (480-178050-11), SF-32-20-1.3-1.8 (480-178050-12), SF-05-20-1.1-1.6 (480-178050-13), SF-06-20-0.9-1.4 (480-178050-14), SF-07-20-0.8-1.3 (480-178050-15), SF-08-20-0.7-1.2 (480-178050-16), SF-09-20-0.7-1.2 (480-178050-17), SF-10-20-1.1-1.6 (480-178050-18), BC-01-20 (480-178191-1), CC-20-20 (480-178191-23), WC-21-20 (480-178191-24), CC-22-20 (480-178191-25), CC-23-20 (480-178191-26), CC-24-20 (480-178191-27) and CC-25-20 (480-178191-28). The secondary surrogate Tetrachloro-m-xylene is within limits; therefore, the data has been reported.

Method 8082A: The matrix spike duplicate (MSD) recovery for preparation batch 480-560096 and analytical batch 480-561244 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-561244/34) that had recoveries for the surrogate Tetrachloro-m-xylene that were below acceptance limits: SF-35-20-0.8-1.3 (480-178050-7), SF-15-20-0.8-1.3 (480-178050-9), SF-14-20-0.9-1.4 (480-178050-10), SF-18-20-1.1-1.6 (480-178050-11), SF-32-20-1.3-1.8 (480-178050-12), SF-05-20-1.1-1.6 (480-178050-13), SF-07-20-0.8-1.3 (480-178050-15), SF-08-20-0.7-1.2 (480-178050-16), SF-09-20-0.7-1.2 (480-178050-17), SF-10-20-1.1-1.6 (480-178050-18), BC-01-20 (480-178191-1), CC-20-20 (480-178191-23), WC-21-20 (480-178191-24), CC-22-20 (480-178191-25), CC-23-20 (480-178191-26), CC-24-20 (480-178191-27) and CC-25-20 (480-178191-28). The secondary surrogate Decachlorobiphenyl is within limits; therefore, the data has been reported.

Method 8082A: Surrogate recovery for the following sample was outside control limits: CC-20-20 (480-178191-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: WC-21-20 (480-178191-24). The sample(s) has been quantified and reported as a mixture of Aroclors PCB-1248 and PCB-1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8082A: The following samples are associated with a method blank (MB 480-560096/1) and a laboratory control sample (LCS 480-560096/2) that had recoveries for the surrogate Decachlorobiphenyl that were above acceptance limits: SF-16-20-1.0-1.5 (480-178050-6) and FD-111220-3 (480-178191-22). The secondary surrogate Tetrachloro-m-xylene is within limits; therefore, the data has been reported.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample: BC-14-20 (480-178191-16). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SF-35-20-0.8-1.8 (480-178050-8), (LCSSRM 480-560556/2-A) and (MB 480-560556/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3550C: The following sample: SF-01-20-0.6-1.1 (480-178050-1) were decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Lab File ID: V3148307.D DFTPP Injection Date: 11/23/2020

Instrument ID: HP5973V DFTPP Injection Time: 15:19

Analysis Batch No.: 560544

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	37.3	
68	Less than 2% of mass 69	0.2	(0.6) 1
69	Mass 69 Relative abundance	36.2	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	44.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	24.3	
365	Greater than 1% of mass 198	2.7	
441	present but less than 24% of mass 442	11.6	(13.8) 2
442	Greater than 50% of mass 198	84.0	
443	15-24% of mass 442	16.7	(19.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-560544/3	V3148308.D	11/23/2020	15:44
	MB 480-559875/1-A	V3148312.D	11/23/2020	17:22
	LCS 480-559875/2-A	V3148313.D	11/23/2020	17:47
SF-35-20-0.8-1.8	480-178050-8	V3148324.D	11/23/2020	22:20

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Lab Sample ID: CCVIS 480-560544/3 Calibration Date: 11/23/2020 15:44

Instrument ID: HP5973V Calib Start Date: 10/28/2020 16:01

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/28/2020 18:55

Lab File ID: V3148308.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6592	0.5450	0.0100	41300	50000	-17.3	20.0
N-Nitrosodimethylamine	Ave	1.004	0.7784	0.0100	38800	50000	-22.5	50.0
Pyridine	Ave	1.286	0.8437	0.0100	65600	100000	-34.4	50.0
Benzaldehyde	Ave	1.197	0.8527	0.0100	35600	50000	-28.8	50.0
Aniline	Ave	2.359	1.997	0.0100	42300	50000	-15.4	20.0
Phenol	Ave	2.076	1.752	0.8000	42200	50000	-15.6	20.0
Bis(2-chloroethyl)ether	Ave	1.528	1.249	0.7000	40900	50000	-18.2	20.0
2-Chlorophenol	Ave	1.543	1.397	0.8000	45300	50000	-9.4	20.0
n-Decane	Ave	2.035	1.481	0.0100	36400	50000	-27.2*	20.0
1,3-Dichlorobenzene	Ave	1.632	1.543	0.0100	47300	50000	-5.4	20.0
1,4-Dichlorobenzene	Ave	1.662	1.566	0.0100	47100	50000	-5.8	20.0
Benzyl alcohol	Ave	1.036	0.8695	0.0100	42000	50000	-16.0	20.0
1,2-Dichlorobenzene	Ave	1.566	1.484	0.0100	47400	50000	-5.2	20.0
Indene	Ave	0.6330	0.6162	0.0100	146000	150000	-2.7	20.0
2-Methylphenol	Ave	1.411	1.239	0.7000	43900	50000	-12.2	20.0
bis (2-chloroisopropyl) ether	Ave	2.593	1.442	0.0100	27800	50000	-44.4*	20.0
Acetophenone	Ave	2.006	1.882	0.0100	46900	50000	-6.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.101	0.9299	0.5000	42200	50000	-15.5	20.0
4-Methylphenol	Ave	1.475	1.281	0.6000	43400	50000	-13.2	20.0
Hexachloroethane	Ave	0.6600	0.6425	0.3000	48700	50000	-2.6	20.0
Nitrobenzene	Ave	0.3946	0.3774	0.2000	47800	50000	-4.4	20.0
Isophorone	Ave	0.7013	0.6729	0.4000	48000	50000	-4.1	20.0
2-Nitrophenol	Lin2		0.1958	0.1000	49500	50000	-1.1	20.0
2,4-Dimethylphenol	Ave	0.3799	0.3868	0.2000	50900	50000	1.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.4256	0.3990	0.3000	46900	50000	-6.3	20.0
Benzoic acid	Lin2		0.1909	0.0100	105000	150000	-30.3	50.0
2,4-Dichlorophenol	Ave	0.2983	0.3100	0.2000	52000	50000	3.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3276	0.3614	0.0100	55200	50000	10.3	20.0
Naphthalene	Ave	1.025	1.041	0.7000	50800	50000	1.6	20.0
4-Chloroaniline	Ave	0.4439	0.4313	0.0100	48600	50000	-2.8	20.0
2,6-Dichlorophenol	Ave	0.2954	0.3069	0.0100	51900	50000	3.9	20.0
Hexachlorobutadiene	Ave	0.1903	0.2406	0.0100	63200	50000	26.4*	20.0
Caprolactam	Lin2		0.1035	0.0100	44700	50000	-10.6	50.0
4-Chloro-3-methylphenol	Ave	0.3108	0.3308	0.2000	53200	50000	6.4	20.0
2-Methylnaphthalene	Ave	0.6765	0.6923	0.4000	51200	50000	2.3	20.0
1-Methylnaphthalene	Ave	0.6240	0.6337	0.0100	50800	50000	1.6	20.0
Hexachlorocyclopentadiene	Ave	0.4139	0.4870	0.0500	58800	50000	17.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5462	0.6203	0.0100	56800	50000	13.6	20.0
2,4,6-Trichlorophenol	Ave	0.3695	0.3921	0.2000	53100	50000	6.1	20.0
2,4,5-Trichlorophenol	Ave	0.3872	0.4127	0.2000	53300	50000	6.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Lab Sample ID: CCVIS 480-560544/3 Calibration Date: 11/23/2020 15:44

Instrument ID: HP5973V Calib Start Date: 10/28/2020 16:01

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/28/2020 18:55

Lab File ID: V3148308.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.521	1.534	0.0100	50400	50000	0.8	20.0
2-Chloronaphthalene	Ave	1.176	1.182	0.8000	50200	50000	0.5	20.0
2-Nitroaniline	Ave	0.3974	0.3494	0.0100	44000	50000	-12.1	20.0
Dimethyl phthalate	Ave	1.271	1.324	0.0100	52100	50000	4.2	20.0
1,3-Dinitrobenzene	Lin2		0.1330	0.0100	55400	50000	10.8	20.0
2,6-Dinitrotoluene	Lin2		0.3217	0.2000	51400	50000	2.7	20.0
Acenaphthylene	Ave	1.608	1.652	0.9000	51400	50000	2.7	20.0
3-Nitroaniline	Lin2		0.3194	0.0100	42900	50000	-14.2	20.0
Acenaphthene	Ave	1.191	1.195	0.9000	50100	50000	0.3	20.0
2,4-Dinitrophenol	Lin1		0.1981	0.0100	100000	100000	0.3	20.0
4-Nitrophenol	Lin2		0.1978	0.0100	91000	100000	-9.0	20.0
2,4-Dinitrotoluene	Lin2		0.4170	0.2000	50700	50000	1.4	20.0
Dibenzofuran	Ave	1.554	1.635	0.8000	52600	50000	5.2	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3524	0.0100	55200	50000	10.3	20.0
Diethyl phthalate	Ave	1.233	1.257	0.0100	51000	50000	2.0	20.0
Hexadecane	Ave	1.016	0.8022	0.0100	39500	50000	-21.1*	20.0
Fluorene	Ave	1.290	1.319	0.9000	51100	50000	2.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6437	0.6945	0.4000	54000	50000	7.9	20.0
4-Nitroaniline	Ave	0.3609	0.3166	0.0100	43900	50000	-12.3	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1432	0.0100	102000	100000	2.1	20.0
Diphenylamine	Ave	0.6689	0.6178	0.0100	39500	42800	-7.6	20.0
N-Nitrosodiphenylamine	Ave	0.5719	0.5282	0.0100	46200	50000	-7.6	20.0
1,2-Diphenylhydrazine	Ave	1.365	1.269	0.0100	46500	50000	-7.0	20.0
trans-Azobenzene	Ave	0.8349	0.7214	0.0100	43200	50000	-13.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2126	0.2308	0.1000	54300	50000	8.5	20.0
Hexachlorobenzene	Ave	0.2077	0.2391	0.1000	57600	50000	15.2	20.0
Atrazine	Ave	0.3660	0.4156	0.0100	56800	50000	13.5	20.0
Pentachlorophenol	Lin2		0.1405	0.0500	101000	100000	1.2	20.0
n-Octadecane	Ave	0.6240	0.4581	0.0100	36700	50000	-26.6*	20.0
Phenanthrene	Ave	1.111	1.087	0.7000	48900	50000	-2.2	20.0
Anthracene	Ave	1.098	1.117	0.7000	50800	50000	1.7	20.0
Carbazole	Ave	0.9945	0.9280	0.0100	46700	50000	-6.7	20.0
Di-n-butyl phthalate	Ave	1.118	1.194	0.0100	53400	50000	6.9	20.0
Fluoranthene	Ave	1.095	1.179	0.6000	53900	50000	7.7	20.0
Benzidine	Ave	0.8741	0.5521	0.0100	31600	50000	-36.8	50.0
Pyrene	Ave	1.323	1.244	0.6000	47000	50000	-5.9	20.0
Butyl benzyl phthalate	Lin2		0.5536	0.0100	43300	50000	-13.4	20.0
3,3'-Dichlorobenzidine	Ave	0.5170	0.4634	0.0100	44800	50000	-10.4	50.0
Benzo(a)anthracene	Ave	1.249	1.180	0.8000	47300	50000	-5.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8776	0.8015	0.0100	45700	50000	-8.7	20.0
Chrysene	Ave	1.263	1.164	0.7000	46100	50000	-7.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Lab Sample ID: CCVIS 480-560544/3 Calibration Date: 11/23/2020 15:44

Instrument ID: HP5973V Calib Start Date: 10/28/2020 16:01

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/28/2020 18:55

Lab File ID: V3148308.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	1.357	1.353	0.0100	49900	50000	-0.3	20.0
Benzo(b)fluoranthene	Ave	1.210	1.327	0.7000	54800	50000	9.6	20.0
Benzo(k)fluoranthene	Ave	1.227	1.213	0.7000	49400	50000	-1.1	20.0
Benzo(a)pyrene	Ave	0.9906	1.079	0.7000	54400	50000	8.9	20.0
Indeno(1,2,3-cd)pyrene	Lin2		1.379	0.5000	55000	50000	9.9	20.0
Dibenz(a,h)anthracene	Lin2		1.150	0.4000	54300	50000	8.5	20.0
Benzo(g,h,i)perylene	Lin2		1.162	0.5000	54600	50000	9.2	20.0
2-Fluorophenol	Ave	1.535	1.373	0.0100	44700	50000	-10.5	20.0
Phenol-d5	Ave	1.815	1.524	0.0100	42000	50000	-16.0	20.0
Nitrobenzene-d5	Ave	0.3925	0.3874	0.0100	49400	50000	-1.3	20.0
2-Fluorobiphenyl	Ave	1.286	1.351	0.0100	52500	50000	5.0	20.0
2,4,6-Tribromophenol	Ave	0.1013	0.1334	0.0100	65800	50000	31.6*	20.0
p-Terphenyl-d14	Ave	0.9519	0.9697	0.0100	50900	50000	1.9	20.0

FORM II
PCBS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Matrix: Solid Level: Low

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
SB-36--20-1.0-1.5	480-177876-1	109	111	113	110
SB-36--20-5.0-6.0	480-177876-2	126	118	164	135
SB-37-20-0.6-3.0	480-177876-3	156 X	159 X	169	163
SB-37-20-3.0-5.0	480-177876-4	86	96	121	102
SB-34-20-3.0-4.0	480-177876-5	91	102	108	95
SB-34-20-4.0-5.0	480-177876-6	78	84	86	76
SB-34-20-0.0-0.5	480-177876-7	105	116	135	116
FD-110920-1	480-177876-8	125	116	159	130
SB-35-20-0.0-0.5	480-177876-9	97	101	135	153
SB-35-20-8.0-9.0	480-177876-10	94	86	114	130
SB-38-20-0.0-0.5	480-177876-11	104	94	125	145
SB-38-20-1.0-1.5	480-177876-12	108	101	143	149
SB-38-20-3.0-4.0	480-177876-13	86	89	118	128
SB-39-20-0.0-0.5	480-177876-14	101	97	137	151
SB-39-20-1.0-1.5	480-177876-15	96	99	134	143
SB-39-20-5.0-5.5	480-177876-16	88	99	131	141
SB-40-20-1.5-1.5	480-177876-17	104	109	151	162
SB-40-20-5.0-6.0	480-177876-18	97	98	133	143
SB-49-20-0.0-0.5	480-177876-19	82	86	100	109
SB-49-20-1.5-2.0	480-177876-20	97	126	112	116
SB-55-20-0.0-0.5	480-177876-21	102	105	139	147
SB-55-20-5.0-6.0	480-177876-22	82	86	111	115
SB-55-20-7.0-8.0	480-177876-23	84	90	118	102
SB-42-20-0.0-1.0	480-177876-24	135	126	143	142
SB-42-20-2.5-3.5	480-177876-25	86	90	104	100
SB-41-20-0.0-1.5	480-177876-26	132	111	119	162
SB-41-20-3.0-4.0	480-177876-27	96	105	132	139
SB-22-20-1.0-1.5	480-177876-28	96	101	130	135
SB-22-20-2.0-2.5	480-177876-29	113	112	120	119
SB-22-20-4.0-4.5	480-177876-30	124	125	133	132
SB-20-20-1.0-1.5	480-177876-31	117	116	125	124
SB-20-20-1.5-2.5	480-177876-32	112	113	118	117
SB-20-20-4.0-4.5	480-177876-33	121	120	127	126
SF-01-20-0.6-1.1	480-178050-1	117	118	124	123
SF-03-20-1.2-1.7	480-178050-2	98	106	111	121

	QC LIMITS
TCX = Tetrachloro-m-xylene	60-154
DCBP = DCB Decachlorobiphenyl	65-174

Column to be used to flag recovery values

FORM II 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-36--20-5.0-6.0 Lab Sample ID: 480-177876-2

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 12:15 Date Analyzed (2): 11/20/2020 12:15

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	5.37	7.7	29.0
		2	2.79	2.77	2.80	9.53		
		3	3.25	3.24	3.27	5.65		
		4	3.56	3.55	3.58	9.67		
		5	3.69	3.68	3.71	8.06		
	2	1	2.09	2.07	2.10	5.05	5.7	
		2	2.33	2.31	2.34	7.79		
		3	2.57	2.55	2.58	7.60		
		4	2.76	2.75	2.78	3.10		
		5	2.92	2.90	2.93	5.06		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: SB-34-20-3.0-4.0 Lab Sample ID: 480-177876-5

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/20/2020 02:58 Date Analyzed (2): 11/20/2020 02:58

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.33	2.31	2.34	0.338	5.1	49.4
		2	2.79	2.77	2.80	6.87		
		3	3.24	3.24	3.27	2.14		
		4	3.56	3.55	3.58	8.63		
		5	3.69	3.68	3.71	7.60		
	2	1	2.09	2.07	2.10	0.381	3.1	
		2	2.33	2.31	2.34	7.69		
		3	2.57	2.55	2.58	3.54		
		4	2.76	2.75	2.78	2.78		
		5	2.92	2.90	2.93	1.06		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: BC-14-20 Lab Sample ID: 480-178191-16

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 11/30/2020 06:34 Date Analyzed (2): 11/30/2020 06:34

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	5.15	5.11	5.17	0.778	2.3	57.9
		2	5.23	5.19	5.25	2.49		
		3	5.57	5.53	5.59	3.11		
		4	5.67	5.63	5.69	2.55		
		5	5.81	5.77	5.83	2.59		
	2	1	4.95	4.92	4.98	6.94	4.2	
		2	5.14	5.10	5.16	2.10		
		3	5.38	5.34	5.40	4.26		
		4	5.46	5.42	5.48	4.39		
		5	5.68	5.64	5.70	3.25		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177876-1

SDG No.: 480-177876

Client Sample ID: WC-21-20 Lab Sample ID: 480-178191-24

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/29/2020 23:58 Date Analyzed (2): 11/29/2020 23:58

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.30	2.28	2.31	12.2	39	90.9
		2	2.77	2.75	2.78	13.0		
		3	3.23	3.22	3.25	23.4		
		4	3.54	3.52	3.55	64.4		
		5	3.67	3.65	3.68	82.6		
	2	1	2.07	2.05	2.08	11.7	15	
		2	2.31	2.29	2.32	12.1		
		3	2.55	2.53	2.56	12.2		
		4	2.74	2.72	2.75	19.5		
		5	2.90	2.88	2.91	17.8		
PCB-1254	1	1	3.08	3.06	3.09	11.3	20	2.6
		2	3.17	3.15	3.18	16.6		
		3	3.46	3.44	3.47	19.6		
		4	3.54	3.52	3.55	22.2		
		5	4.10	4.08	4.11	30.6		
	2	1	2.77	2.76	2.79	23.7	21	
		2	2.94	2.92	2.95	15.8		
		3	3.22	3.20	3.23	18.4		
		4	3.41	3.39	3.42	24.1		
		5	3.79	3.77	3.80	20.9		

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: S. Connelly	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-152379-33882.9
Client Contact: George Kisluk	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com		Page: Page 9 of 9
Company: AECOM				Job #:

Address: 257 West Genesee Street Suite 400
City: Buffalo
State, Zip: NY, 14202-2657
Phone:
Email: george.kisluk@aecom.com
Project Name: Tonawanda Forge #915274
Site:

Due Date Requested:
TAT Requested (days): STD
PO #: CallOut ID: 136391
WO #:
Project #: 48008759
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - (MOD) TCL SVOA - OLM04.2+ TICS	8260C - (MOD) TCL list OLM04.2+ TICS	8082A - TCL PCBs - SOM01.0	9012_ReactiveCN, 9034_Reactive	TCLPs - 6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	9045D - pH	1030 - Ignitability	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N		
TP-2020-05-1.35-1.50	12/2/20	1400	G	Solid	N	N	X	X	X	X							
TP-2020-05-2.3-2.5	12/7/20	1430	G	Solid	N	N				X							
TP 2020-03-3.3-3.5	12/8/20	1010	G	Solid	N	N	X	X	X	X							
FD 20201208-1	12/8/20	1015	G	Solid	N	N	X	X	X	X							
TP-2020-03-7.3-7.5	12/8/20	1040	G	Solid	N	N				X							
TP-2020-02-3.3-3.5 (MS/MSD)	12/8/20	1205	G	Solid	N	N	X	X	X	X							(MS/MSD)
TP-2020-06A-0.4-0.5	12/8/20	1320	G	Solid	N	N	X	X	X	X							
TP-2020-06D-4.7-4.8	12/9/20	0945	G	Solid	N	N	X	X	X	X	X	X	X	X			Limited volume for 8270D, 6010C, 7470A, 8151A
TP-2020-07-2.8-3.3	12/9/20	1220	G	Solid	N	N	X	X	X	X	X	X	X	X			
TP-2020-05-2.4-3.0	12/9/20	1417	G	Solid	N	N	X	X	X	X							
TP-2020-04-4.0-4.3	12/9/20	1545	G	Solid	N	N	X	X	X	X							

480-179270 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Sam P. Connelly	12/10/20 @ 1600	Aecom			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/10/20 1600	Company TAL

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.3 #1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: S. Connelly	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-152379-33882.9
Client Contact: George Kisluk	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com		Page: Page 9 of 9
Company: AECOM				Job #:

Address: 257 West Genesee Street Suite 400	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Buffalo	TAT Requested (days): STD		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: NY, 14202-2657			
Phone:	PO #: CallOut ID: 136391		
Email: george.kisluk@aecom.com	WO #:		
Project Name: Tonawanda Forge #915274	Project #: 48008759		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - (MOD) TCL SVOA - OLM04.2+ TICS	8260C - (MOD) TCL list OLM04.2+ TICS	8082A - TCL PCBs + SOM01.0	9012_ReactiveCN, 9034_Reactive	TCLPs - 6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	9045D - pH	1030 - Ignitability					Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	N	N	N	N	N	N	N						
TP-2020-09.00-0.2	12/10/20	0830	G	Solid	N	N	X	X	X	X											
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Sean P. Connelly	Date/Time: 12/10/20 1600	Company: Aecom	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/10/20 1600	Company TB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 #1

Ver: 01/16/2019

Job Narrative
480-179270-1

Comments
No additional comments.

Receipt
The samples were received on 12/10/2020 4:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to the nature of the TCLP matrix: TP-2020-06D-4.7-4.8 (480-179270-8), TP-2020-07-2.8-3.3 (480-179270-9) and (LB 480-563080/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Caprolactam. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-563063 and analytical batch 480-563492 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-563063/2-A)

Method 8270D: The following samples were diluted due to color and appearance: TP-2020-08-1.35-1.50 (480-179270-1), TP-2020-02-3.3-3.5 (480-179270-6), TP-2020-02-3.3-3.5 (480-179270-6[MS]), TP-2020-02-3.3-3.5 (480-179270-6[MSD]) and TP-2020-09-0.0-0.2 (480-179270-12). Elevated reporting limits (RL) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-563063 and analytical batch 480-563492 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-563063 and analytical batch 480-563492 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: TP-2020-03-3.3-3.5 (480-179270-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: The following samples are associated with laboratory control sample (LCS 480-563070/2) that had recoveries for the surrogate Tetrachloro-m-xylene that were above acceptance limits: TP-2020-03-3.3-3.5 (480-179270-3), FD-20201208-1 (480-179270-4), TP-2020-06D-4.7-4.8 (480-179270-8), TP-2020-07-2.8-3.3 (480-179270-9), TP-2020-05-2.4-3.0 (480-179270-10), TP-2020-04-4.0-4.3 (480-179270-11) and TP-2020-09-0.0-0.2 (480-179270-12). The secondary surrogate Decachlorobiphenyl was within limits. Therefore, the data has been reported.

Method 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: TP-2020-06D-4.7-4.8 (480-179270-8). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: TP-2020-08-1.35-1.50 (480-179270-1), TP-2020-08-2.3-2.5 (480-179270-2), TP-2020-03-1.3-1.5 (480-179270-5), TP-2020-02-3.3-3.5 (480-179270-6) and TP-2020-06A-0.4-0.5 (480-179270-7). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to abundance of target analytes : TP-2020-03-1.3-1.5 (480-179270-5) and TP-2020-06A-0.4-0.5 (480-179270-7). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples are associated with laboratory control sample (LCS 480-563070/2) that had recoveries for the surrogate Tetrachloro-m-xylene that were above acceptance limits: TP-2020-08-1.35-1.50 (480-179270-1), TP-2020-08-2.3-2.5 (480-179270-2), TP-2020-03-1.3-1.5 (480-179270-5), TP-2020-02-3.3-3.5 (480-179270-6) and TP-2020-06A-0.4-0.5 (480-179270-7). The secondary surrogate Decachlorobiphenyl was within limits. Therefore, the data has been reported.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: TP-2020-02-3.3-3.5 (480-179270-6[MS]) and TP-2020-02-3.3-3.5 (480-179270-6[MSD]). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: TP-2020-02-3.3-3.5 (480-179270-6[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-563070 and analytical batch 480-563958 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated

laboratory control sample (LCS) recovery was within acceptance limits.

Method 8151A: Surrogate recovery for the following samples were outside control limits: TP-2020-06D-4.7-4.8 (480-179270-8), TP-2020-07-2.8-3.3 (480-179270-9) and (LB 480-563079/1-D). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. TP-2020-06D-4.7-4.8 (480-179270-8), TP-2020-07-2.8-3.3 (480-179270-9), (LB 480-563079/1-B), (LCS 480-563268/3-A) and (MB 480-563268/2-A)

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. TP-2020-08-1.35-1.50 (480-179270-1), TP-2020-03-3.3-3.5 (480-179270-3), FD-20201208-1 (480-179270-4), TP-2020-02-3.3-3.5 (480-179270-6), TP-2020-02-3.3-3.5 (480-179270-6[MS]), TP-2020-02-3.3-3.5 (480-179270-6[MSD]), TP-2020-06A-0.4-0.5 (480-179270-7), TP-2020-06D-4.7-4.8 (480-179270-8), TP-2020-07-2.8-3.3 (480-179270-9), TP-2020-05-2.4-3.0 (480-179270-10), TP-2020-04-4.0-4.3 (480-179270-11), TP-2020-09-0.0-0.2 (480-179270-12), (480-179270-A-6-C PDS) and (480-179270-A-6-C SD ^5)

Method 6010C: The following samples were diluted due to the presence of Total Iron which interferes with Silver, Arsenic, Cadmium, Chromium, Manganese, Nickel, Lead, Antimony, Selenium, and Vanadium: TP-2020-08-1.35-1.50 (480-179270-1), TP-2020-06D-4.7-4.8 (480-179270-8) and TP-2020-09-0.0-0.2 (480-179270-12). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted for Total Thallium due to the nature of the sample matrix: TP-2020-08-1.35-1.50 (480-179270-1). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the presence of Total Calcium which interferes with Copper: TP-2020-09-0.0-0.2 (480-179270-12). Elevated reporting limits (RLs) are provided.

Method 6010C: The serial dilution and post spike (480-179270-A-6-C PDS) and (480-179270-A-6-C SD ^5), associated with batch 480-563123, exceeded the quality control limits for Total Iron and Magnesium. Sample matrix is suspected, therefore, no corrective action was necessary.

Method 6010C: The serial dilution (480-179270-A-6-C SD ^5) associated with batch 480-564020, exhibited results outside the quality control limits for Total Aluminum, Barium, Beryllium, Calcium, Cobalt, Chromium, Copper, Potassium, Manganese, Nickel, Lead, Vanadium, and Zinc. However, the post digestion spike (PDS) was compliant, therefore no corrective action was necessary.

Method 6010C: The following sample was diluted for Total Cadmium due to the nature of the sample matrix: TP-2020-06D-4.7-4.8 (480-179270-8). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted for Total Cadmium due to the nature of the sample matrix: TP-2020-08-1.35-1.50 (480-179270-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: TP-2020-06D-4.7-4.8 (480-179270-8) and TP-2020-07-2.8-3.3 (480-179270-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-563079 and 480-563237.

Method 3550C: The following samples: TP-2020-08-1.35-1.50 (480-179270-1), TP-2020-02-3.3-3.5 (480-179270-6[MS]), TP-2020-02-3.3-3.5 (480-179270-6[MSD]) and TP-2020-07-2.8-3.3 (480-179270-9) were decanted prior to preparation .

Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: TP-2020-06A-0.4-0.5 (480-179270-7) and TP-2020-06D-4.7-4.8 (480-179270-8). The reporting limits (RLs) are elevated proportionately.

Method 3550C: The following samples: TP-2020-03-3.3-3.5 (480-179270-3), TP-2020-02-3.3-3.5 (480-179270-6[MS]) and TP-2020-02-3.3-3.5 (480-179270-6[MSD]) were decanted prior to preparation .

Method 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-563079 and 480-563248.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Client Sample ID: FD-20201208-1 Lab Sample ID: 480-179270-4

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 12/18/2020 17:29 Date Analyzed (2): 12/18/2020 17:29

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	2.27	2.26	2.29	0.389	1.2	8.1
		2	2.73	2.72	2.75	0.705		
		3	3.19	3.18	3.21	0.787		
		4	3.50	3.49	3.52	2.16		
		5	3.63	3.61	3.64	1.99		
	2	2	2.38	2.37	2.40	1.62	1.1	
		3	2.62	2.61	2.64	1.52		
		4	2.81	2.80	2.83	0.467		
		5	2.97	2.96	2.99	0.838		
PCB-1260	1	1	3.63	3.63	3.66	0.897	0.32	30.3
		2	3.75	3.73	3.76	0.158		
		3	4.05	4.03	4.06	0.267		
		5	4.81	4.79	4.82	0.154		
	2	1	3.48	3.46	3.49	0.656	0.23	
		3	3.86	3.85	3.88	0.273		

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-2020-02-3.3-3.5 MS
Lab ID: 480-179270-6 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-179270-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 83.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9527		19900		2270	-457	75-125	4	6010C
Antimony	36.50		ND		45.5	80	75-125		6010C
Arsenic	44.89		2.9		45.5	92	75-125		6010C
Barium	77.60		118		45.5	-89	75-125	^6+ F1	6010C
Beryllium	43.00		0.86		45.5	93	75-125		6010C
Cadmium	42.69		0.064	J	45.5	94	75-125		6010C
Calcium	74420		45300		2270	1280	75-125	4	6010C
Chromium	47.22		24.2		45.5	51	75-125	F1	6010C
Cobalt	46.73		11.9		45.5	77	75-125		6010C
Copper	51.78		16.9		45.5	77	75-125		6010C
Iron	8792		22400		2270	-599	75-125	4	6010C
Lead	53.72		11.0		45.5	94	75-125		6010C
Magnesium	35150		17400		2270	780	75-125	4	6010C
Manganese	471.8		506		45.5	-76	75-125	4	6010C
Nickel	49.71		26.3		45.5	51	75-125	F1	6010C
Potassium	4731		5740		2280	-44	75-125	F1	6010C
Selenium	41.36		1.8	J	45.5	87	75-125		6010C
Silver	10.88		0.33	J	11.4	93	75-125		6010C
Sodium	2525		241		2280	100	75-125		6010C
Thallium	42.59		ND		45.5	94	75-125		6010C
Vanadium	53.31		35.7		45.5	39	75-125	F1	6010C
Zinc	95.09		56.7		45.5	84	75-125		6010C
Hg	0.402		0.012	J	0.365	107	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: TP-2020-02-3.3-3.5 MSD
Lab ID: 480-179270-6 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-179270-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 83.2

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	8333		2300	-505	75-125	13	20	4	6010C
Antimony	39.03		46.0	85	75-125	7	20		6010C
Arsenic	46.63		46.0	95	75-125	4	20		6010C
Barium	67.58		46.0	-110	75-125	14	20	^6+ F1	6010C
Beryllium	44.55		46.0	95	75-125	4	20		6010C
Cadmium	44.52		46.0	97	75-125	4	20		6010C
Calcium	65000		2300	857	75-125	14	20	4	6010C
Chromium	49.16		46.0	54	75-125	4	20	F1	6010C
Cobalt	48.36		46.0	79	75-125	3	20		6010C
Copper	52.39		46.0	77	75-125	1	20		6010C
Iron	8832		2300	-591	75-125	0	20	4	6010C
Lead	54.26		46.0	94	75-125	1	20		6010C
Magnesium	28700		2300	491	75-125	20	20	4	6010C
Manganese	281.0		46.0	-490	75-125	51	20	4 F2	6010C
Nickel	50.80		46.0	53	75-125	2	20	F1	6010C
Potassium	4337		2300	-61	75-125	9	20	F1	6010C
Selenium	44.13		46.0	92	75-125	6	20		6010C
Silver	11.36		11.5	96	75-125	4	20		6010C
Sodium	2510		2300	99	75-125	1	20		6010C
Thallium	44.31		46.0	96	75-125	4	20		6010C
Vanadium	54.75		46.0	42	75-125	3	20	F1	6010C
Zinc	94.14		46.0	81	75-125	1	20		6010C
Hg	0.343		0.314	105	80-120	16	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-2020-02-3.3-3.5 PDS Lab ID: 480-179270-6 PDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179270-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	22240		19900		2450	94	80-120		6010C
Antimony	39.73		ND		49.0	81	80-120		6010C
Arsenic	47.61		2.9		49.0	91	80-120		6010C
Barium	157.3		118		49.0	80	80-120	^6+	6010C
Beryllium	46.03		0.86		49.0	92	80-120		6010C
Cadmium	44.61		0.064	J	49.0	91	80-120		6010C
Calcium	46210		45300		2450	NC	80-120		6010C
Chromium	67.02		24.2		49.0	87	80-120		6010C
Cobalt	60.63		11.9		49.0	100	80-120		6010C
Copper	61.08		16.9		49.0	90	80-120		6010C
Iron	23840		22400		2450	59	80-120	W	6010C
Lead	61.40		11.0		49.0	103	80-120		6010C
Magnesium	18780		17400		2450	56	80-120	W	6010C
Manganese	526.9		506		49.0	NC	80-120		6010C
Nickel	73.69		26.3		49.0	97	80-120		6010C
Potassium	7965		5740		2450	91	80-120		6010C
Selenium	46.53		1.8	J	49.0	91	80-120		6010C
Silver	11.42		0.33	J	12.2	91	80-120		6010C
Sodium	2473		241		2450	91	80-120		6010C
Thallium	47.36		ND		49.0	97	80-120		6010C
Vanadium	79.21		35.7		49.0	89	80-120		6010C
Zinc	96.89		56.7		49.0	82	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-179270-6

SDG No:

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-179270-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	19900		24560		23	V	6010C
Antimony	ND		ND		NC		6010C
Arsenic	2.9		3.04	J	NC		6010C
Barium	118		152.4		29	^6+ V	6010C
Beryllium	0.86		1.08	J	27	V	6010C
Cadmium	0.064	J	0.239	J	NC		6010C
Calcium	45300		57100		26	V	6010C
Chromium	24.2		30.24		25	V	6010C
Cobalt	11.9		13.28		12	V	6010C
Copper	16.9		20.80		23	V	6010C
Iron	22400		28040		25	V	6010C
Lead	11.0		12.91		17	V	6010C
Magnesium	17400		21030		21	V	6010C
Manganese	506		640.6		27	V	6010C
Nickel	26.3		29.53	J	12	V	6010C
Potassium	5740		6822		19	V	6010C
Selenium	1.8	J	2.79	J	NC		6010C
Silver	0.33	J	ND		NC		6010C
Sodium	241		312.6	J	NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	35.7		43.93		23	V	6010C
Zinc	56.7		72.79		28	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

Chain of Custody Record 391227

eurofins | Environment Testing TestAmerica

ddress: _____

Regulatory Program: ☐ DW ☐ NPDES ☒ RCRA ☐ Other: TAL-8210

Client Contact	Project Manager: George Kisluk	Site Contact:	Date:	COC No:
mpany Name: Arcom	Tel/Email: George.Kisluk@arcom.com	Lab Contact: Odette Johnson	Carrier:	_____ of _____ COCs
dress: 257 W. Genesee St Suite 400	Analysis Turnaround Time			Sampler:
y/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
one:	TAT if different from Below _____			Walk-in Client:
x:	☐ 2 weeks			Lab Sampling:
ject Name: Tonawanda Reuse #915274	☐ 1 week STD			Job / SDG No.:
# Callout EQ: 136391	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9012B Cyanide, Total	245.1 - 200.8	245.1 - 200.8	608.3 PCB Prep-PP	603.3 Pest Prep-PP	625.1 Prep-PP SVOA	624.1 Prep-PP VOA	Sample Specific Notes:
SW-2020-1	12/11/20	1300	G	Water	11	N	N	1	1	1	2	2	2	2	
SW-2020-2	↓	1330	G	Water	11	N	N	1	1	1	2	2	2	2	
SW-2020-3		1400	G	Water	11	N	N	1	1	1	2	2	2	2	
SW-2020-4		1430	G	Water	11	N	N	1	1	1	2	2	2	2	
SW-2020-5	12/11/20	1500	G	Water	11	N	N	1	1	1	2	2	2	2	

480-179335 Chain of Custody

eservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

ssible Hazard Identification:
any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the mments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

ecial Instructions/QC Requirements & Comments:

10.3, 9.6, 11.1, 10.8 #1 NO KE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
inquished by:	Company: Arcom	Date/Time: 12/11/20 1635	Received by:	Company:	Date/Time: 12/11/20
inquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
inquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-60979.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-179335-1
Address: 777 New Durham Road, ,	Due Date Requested: 1/11/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Tonawanda Forge #915274	Project #: 48008759			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC/624_Prep_3D Priority Pollutant List for VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SW-2020-1 (480-179335-1)	12/11/20	13:00 Eastern		Water			X	2	
SW-2020-2 (480-179335-2)	12/11/20	13:30 Eastern		Water			X	2	
SW-2020-3 (480-179335-3)	12/11/20	14:00 Eastern		Water			X	2	
SW-2020-4 (480-179335-4)	12/11/20	14:30 Eastern		Water			X	2	
SW-2020-5 (480-179335-5)	12/11/20	15:00 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [illegible]	Date/Time: 12/15/20 1700	Company: TA	Received by: via FedEx
Date/Time: 12/16/20 1030	Company: ETAL		
Relinquished by:	Date/Time:	Company:	Received by:
Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:
Date/Time:	Company:		

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.: 1427272	Cooler Temperature(s) °C and Other Remarks: 3.9°C IR 11

Ver: 11/01/2020

Job Narrative
480-179335-1

Comments
No additional comments.

Receipt
The samples were received on 12/11/2020 4:35 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 9.6º C, 10.3º C, 10.8º C and 11.1º C.

Receipt Exceptions
UNPRESERVED 624 SUB METHOD NEEDED.
SW-2020-1 (480-179335-1), SW-2020-2 (480-179335-2), SW-2020-3 (480-179335-3), SW-2020-4 (480-179335-4) and SW-2020-5 (480-179335-5)

GC/MS VOA
Method 624.1: The laboratory control sample duplicate (LCSD) for analytical batch 460-747739 recovered outside the lower control limit for 1,1-Dichloroethane and Acrylonitrile. The laboratory control sample (LCS) recoveries were within control limits. These analytes were not detected in the associated samples; therefore, the data have been reported.

Method 624.1: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SW-2020-1 (480-179335-1). These results have been reported and qualified.

Method 624.1: The following samples were analyzed outside of the three day analytical holding time for Acrolein: SW-2020-1 (480-179335-1), SW-2020-2 (480-179335-2), SW-2020-3 (480-179335-3), SW-2020-4 (480-179335-4) and SW-2020-5 (480-179335-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 625.1: The following sample was diluted due to color, appearance, and viscosity: SW-2020-1 (480-179335-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 608.3: The laboratory control sample duplicate (LCSD) for preparation batch 480-563237 and analytical batch 480-563419 recovered outside control limits for the following analytes: Dieldrin, Endosulfan I and Endosulfan sulfate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 608.3: The laboratory control sample (LCS) for preparation batch 480-563530 and analytical batch 480-563959 recovered outside control limits for the following analytes: PCB-1016. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 608.3: Surrogate recovery for the following sample was outside control limits: SW-2020-1 (480-179335-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 608.3: The following sample was diluted to bring the concentration of target analytes within the calibration range: SW-2020-1 (480-179335-1). Elevated reporting limits (RLs) are provided.

Method 608.3: The laboratory control sample (LCS) for preparation batch 480-563530 and analytical batch 480-564106 recovered outside control limits for the following analytes: PCB-1016. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-563237.

Method 3510C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SW-2020-1

(480-179335-1), SW-2020-2 (480-179335-2), SW-2020-4 (480-179335-4) and SW-2020-5 (480-179335-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SW-2020-1	480-179335-1	113	90	57 S1-	101
SW-2020-2	480-179335-2	104	87	91	97
SW-2020-3	480-179335-3	100	87	104	101
SW-2020-4	480-179335-4	117	92	117	103
SW-2020-5	480-179335-5	102	101	109	93
	MB 460-747739/7	99	82	106	100
	LCS 460-747739/3	100	81	102	103
	LCSD 460-747739/4	101	86	101	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	60-140
TOL = Toluene-d8 (Surr)	60-140
BFB = Bromofluorobenzene	60-140

Column to be used to flag recovery values

FORM II 624.1

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Lab File ID: P83336.D Lab Sample ID: MB 460-747739/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS13 Date Analyzed: 12/18/2020 12:24

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-747739/3	P83332.D	12/18/2020 10:32
	LCSD 460-747739/4	P83333.D	12/18/2020 11:00
SW-2020-1	480-179335-1	P83343.D	12/18/2020 15:39
SW-2020-2	480-179335-2	P83344.D	12/18/2020 16:07
SW-2020-3	480-179335-3	P83345.D	12/18/2020 16:35
SW-2020-4	480-179335-4	P83346.D	12/18/2020 17:03
SW-2020-5	480-179335-5	P83347.D	12/18/2020 17:38

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-179335-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P83333.D

Lab ID: LCSD 460-747739/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	20.0	18.7	94	2	60	0.1-205	
Bromomethane	20.0	24.1	121	12	61	15-185	
Vinyl chloride	20.0	22.7	114	2	66	5-195	
Ethyl Chloride	20.0	21.1	105	25	78	40-160	
Methylene Chloride	20.0	19.3	97	15	28	60-140	
Trichlorofluoromethane	20.0	26.5	132	3	84	50-150	
1,1-Dichloroethene	20.0	19.7	99	8	32	50-150	
1,1-Dichloroethane	20.0	13.3	67	25	40	70-130	*-
trans-1,2-Dichloroethene	20.0	19.2	96	0	45	70-130	
cis-1,2-Dichloroethene	20.0	16.2	81	11	50	60-140	
Chloroform	20.0	18.2	91	2	54	70-135	
1,2-Dichloroethane	20.0	16.5	82	4	49	70-130	
1,1,1-Trichloroethane	20.0	19.0	95	3	36	70-130	
Carbon tetrachloride	20.0	19.0	95	5	41	70-130	
Bromodichloromethane	20.0	17.8	89	0	56	65-135	
1,2-Dichloropropane	20.0	16.5	82	4	55	35-165	
cis-1,3-Dichloropropene	20.0	16.1	81	1	58	25-175	
Trichloroethene	20.0	21.2	106	0	48	65-135	
Dibromochloromethane	20.0	17.8	89	1	50	70-135	
1,1,2-Trichloroethane	20.0	16.7	84	2	45	70-130	
Benzene	20.0	17.4	87	3	61	65-135	
trans-1,3-Dichloropropene	20.0	15.5	78	2	86	50-150	
2-Chloroethyl vinyl ether	20.0	2.56	13	14	71	0.1-225	
Bromoform	20.0	17.7	89	2	42	70-130	
Tetrachloroethene	20.0	20.7	104	1	39	70-130	
1,1,2,2-Tetrachloroethane	20.0	16.2	81	4	61	60-140	
Toluene	20.0	19.0	95	2	41	70-130	
Chlorobenzene	20.0	19.9	100	2	53	65-135	
Ethylbenzene	20.0	18.5	93	3	63	60-140	
Xylenes, Total	40.0	34.9	87	2	50	60-140	
Acrolein	40.0	30.2	76	24	60	10-150	
Acrylonitrile	200	113	56	16	60	60-140	*-

Column to be used to flag recovery and RPD values

FORM III 624.1

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-1 Lab Sample ID: 480-179335-1

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 12/20/2020 21:43 Date Analyzed (2): 12/20/2020 21:43

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	3.04	3.02	3.05	6.67	15	31.1
		2	3.13	3.11	3.14	11.3		
		3	3.42	3.40	3.43	17.7		
		4	3.50	3.48	3.51	19.3		
		5	4.05	4.03	4.06	19.7		
	2	1	2.85	2.83	2.86	25.6	20	
		2	3.02	3.00	3.03	12.7		
		3	3.29	3.28	3.31	20.1		
		4	3.49	3.47	3.50	23.2		
		5	3.87	3.85	3.88	20.4		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: SW-2020-4 Lab Sample ID: 480-179335-4

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 12/20/2020 22:45 Date Analyzed (2): 12/20/2020 22:45

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	2	3.14	3.11	3.14	0.0703	0.066	36.3
		4	3.50	3.48	3.51	0.0626		
		5	4.05	4.03	4.06	0.103		
	2	1	2.85	2.83	2.86	0.0680	0.095	
		2	3.01	3.00	3.03	0.124		
		3	3.29	3.28	3.31	0.0683		
		4	3.49	3.47	3.50	0.114		
		5	3.87	3.85	3.88	0.102		

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Lab Sample ID: MB 480-563237/1-A

Matrix: Water Date Extracted: 12/15/2020 09:20

Lab File ID:(1) 25_41-278.D Lab File ID:(2) 25_41-278.D

Date Analyzed:(1) 12/16/2020 10:21 Date Analyzed:(2) 12/16/2020 10:21

Instrument ID:(1) HP6890-25 Instrument ID:(2) HP6890-25

GC Column:(1) RTX-CLPI ID: 0.53(mm) GC Column:(2) RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-563237/2-A	12/16/2020 10:40	12/16/2020 10:40
	LCSD 480-563237/3-A	12/16/2020 11:00	12/16/2020 11:00
SW-2020-1	480-179335-1	12/16/2020 11:19	12/16/2020 11:19
SW-2020-2	480-179335-2	12/16/2020 11:39	12/16/2020 11:39
SW-2020-3	480-179335-3	12/16/2020 11:59	12/16/2020 11:59
SW-2020-4	480-179335-4	12/16/2020 12:18	12/16/2020 12:18
SW-2020-5	480-179335-5	12/16/2020 12:38	12/16/2020 12:38

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-179335-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-563237/1-A

Matrix: Water Lab File ID: 25_41-278.D

Analysis Method: 608.3 Date Collected:

Extraction Method: 3510C Date Extracted: 12/15/2020 09:20

Sample wt/vol: 1000(mL) Date Analyzed: 12/16/2020 10:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 563419 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	ND		0.050	0.0081
319-84-6	alpha-BHC	ND		0.050	0.0077
319-85-7	beta-BHC	ND		0.050	0.025
319-86-8	delta-BHC	0.0108	J	0.050	0.010
58-89-9	gamma-BHC (Lindane)	ND		0.050	0.0080
12789-03-6	Chlordane (technical)	ND		0.50	0.29
72-54-8	4,4'-DDD	ND		0.050	0.0092
72-55-9	4,4'-DDE	ND		0.050	0.012
50-29-3	4,4'-DDT	ND		0.050	0.011
60-57-1	Dieldrin	ND		0.050	0.0098
959-98-8	Endosulfan I	ND		0.050	0.011
33213-65-9	Endosulfan II	ND		0.050	0.012
1031-07-8	Endosulfan sulfate	ND		0.050	0.016
72-20-8	Endrin	ND		0.050	0.014
7421-93-4	Endrin aldehyde	ND		0.050	0.016
76-44-8	Heptachlor	ND		0.050	0.0085
1024-57-3	Heptachlor epoxide	ND		0.050	0.0074
8001-35-2	Toxaphene	ND		0.50	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		23-120
877-09-8	Tetrachloro-m-xylene	118		44-120

AECOM
257 West Genesee St.
Suite 400
Buffalo, NY 14202-2657
www.aecom.com

716 856 5636 tel
716 856 2545 fax

Memorandum

To	Michael Gutmann	Page	1
CC			
Subject	Analytical Data Review Tonawanda Forge Site December 2020 Manhole Sampling Event		
From	Ann Marie Kropovitch		
Date	February 25, 2021		

Sixteen (16) sediment samples, one (1) sediment field duplicate (FD), one (1) sediment matrix spike/matrix spike duplicate (MS/MSD) pair; two (2) soil samples; two (2) LNAPL; and sixteen (16) waste water samples, one (1) WW FD, and one (1) WW MS/MSD pair were collected from the Tonawanda Forge Site on December 9-30, 2020 by AECOM and sent to Eurofins TestAmerica Laboratory located in Amherst, New York for analysis.

The samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). The samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by USEPA Method 8260C/624.1
- Semivolatile organic compounds (SVOCs) by USEPA Method 8270D/625.1
- Metals (total or dissolved) by USEPA Method 6010C/7470A/7471B/200.8
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082A
- Pesticides by USEPA Method 8081B
- Herbicides by USEPA Method 8151A
- Petroleum product identification by NYSDOH Method 310.13
- Alkalinity by USEAP Method 310.2
- Ammonia by USEPA Method 351.1
- Biochemical oxygen demand (BOD) by SM 5210B
- Chemical oxygen demand (COD) by USEPA Method 410.4
- Cyanide by USEPA Method 9012B
- Flashpoint by USEPA Method 1010A
- Hardness by SM 2340C
- Total dissolved solids (TDS) by SM 2540C
- Total kjeldahl nitrogen by method 351.2
- Total suspended solids (TSS) by SM 2540D

- BTU (heat of combustion) by ASTM Method D240.87
- Hexavalent chromium by USEPA Method 7196A
- Nitrate by USEPA Method 353.2
- Oil and grease by USEPA Method 1664A
- pH by USEPA Method 9045D
- Total recoverable phenolics by USEPA Method 420.4
- Reactive cyanide/sulfide by USEPA Methods 9012/9034

Some samples underwent a toxicity characteristic leaching procedure (TCLP) extraction prior to analysis by the above methods. Not all samples were analyzed for all parameters. The analytical results were reported in sample delivery groups (SDG) 480-179600-1, 480-179657-1, 480-179645-1, 480-179710-1, 480-179751-1, and 480-179771-1.

A limited data review was performed on all samples for completeness of deliverables, and for compliance with method criteria, which includes reporting limits (RL), holding times, method blanks, surrogate recoveries, internal standard recoveries, MS/MSD recoveries, and laboratory control sample (LCS) recoveries. Any issues were investigated (if necessary) using the NYSDEC ASP Category B deliverable reports that were provided by the laboratory.

Non-Conformances

All samples were analyzed within holding times, with compliant surrogate, internal standard, MS/MSD, and LCS recoveries with any exceptions listed below.

The percent recovery (%R) of VOC internal standard 1,4-dichlorobenzene-d_4 was less than the lower QC limit in both the initial and re-analysis of sediment samples DI-8-2020, MH-60, MH-132, and BC-01-2020. The associated compounds have been qualified 'J' or "UJ' in these samples.

The %R of the VOC laboratory control sample (LCS) %R was below the lower QC limit for 4-methyl-2-pentanone. The result for this compound in associated sediment sample MH-107 has been qualified 'UJ'.

The laboratory indicated that for sediment sample MH-58 (AR1242), waste water sample MH-103V (AR1242), and sediment sample MH-108 (1248/1260) the PCB patterns didn't exactly match the standards due to possible weathering effects on the samples. To be conservative, the laboratory reported those PCBs as detections at the Aroclors that most closely matched the patterns. The detections in these samples have been qualified 'JN' (tentatively identified, estimated concentration) during the data validation.

The analysis for hexavalent chromium occurred outside of the 24 hour holding time for waste water samples MH-60/FD-1222220, MH-53, and MH-64. The results for hexavalent chromium in these samples have been qualified 'J' or 'UJ'.

The %R of the BOD LCS was below the lower QC limit. Since the holding time had expired, the samples were not re-analyzed. The BOD results in samples MH-103V, MH-53, MH-64, and F40EV-20 were qualified 'UJ'.

Several samples were only analyzed at a dilution due to the color and/or viscosity of the extracts. The reporting limits (RLs) for the non-detect compounds are the lowest achievable at the diluted level.

The relative percent differences between the parent sample MW-60 (WW)/field duplicate FD 122220 and MH-60 (sediment)/FD-1222220 were acceptable (i.e., <50%), with the following exceptions:

Matrix	Parameter (qualified 'J')
Waste Water	Copper
Sediment	acetone, cadmium, calcium, and copper

Summary

Results qualified 'J' are considered estimated. Results qualified 'UJ' are considered non-detect at an estimated detection limit. Results qualified 'JN' are considered tentatively identified. All other data are usable as reported.

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS_HW3a-ICP-AES Rev 1.1), USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22A0722
SAMPLING DATE(S):	January 12, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB
AOC-01-MW-23I	22A0722-01	X
AOC-01-MW-23IMS	22A0722-01MS	X
AOC-01-MW-23IMSD	22A0722-01MSD	X
AOC-01-MW-23I-FF	22A0722-02	X
AOC-01-MW-23I-FFMS	22A0722-02MS	X
AOC-01-MW-23I-FFMSD	22A0722-02MSD	X
AOC-01-MW-11I	22A0722-03	X
AOC-01-MW-11I-FF	22A0722-04	X
AOC-01-MW-14S	22A0722-05	X
AOC-01-MW-14S-FF	22A0722-06	X
AOC-01-MW-11S	22A0722-07	X
AOC-01-MW-11S-FF	22A0722-08	X
AOC-01-MW-05I	22A0722-09	X
AOC-01-MW-05I-FF	22A0722-10	X
AOC-01-PZ-07	22A0722-11	X
AOC-01-PZ-07-FF	22A0722-12	X
AOC-01-MW-15S	22A0722-13	X

Client Sample ID	Laboratory ID	PCB
AOC-01-MW-15S-FF	22A0722-14	X
AOC-01-MW-12I	22A0722-15	X
AOC-01-MW-12I-FF	22A0722-16	X
AOC-16-MW-E	22A0722-17	X
AOC-16-MW-EMS	22A0722-17MS	X
AOC-16-MW-EMSD	22A0722-17MSD	X
AOC-16-MW-E-FF	22A0722-18	X
AOC-16-MW-E-FFMS	22A0722-18MS	X
AOC-16-MW-E-FFMSD	22A0722-18MSD	X
AOC-16-MW-H	22A0722-19	X
AOC-16-MW-H-FF	22A0722-20	X
FD-20220110-1	22A0722-21	X
FD-20220110-1-FF	22A0722-22	X
AOC-05-MW-04S	22A0722-23	X
AOC-05-MW-04S-FF	22A0722-24	X
AOC-5-PZ-06	22A0722-25	X
AOC-5-PZ-06-FF	22A0722-26	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A0722

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG samples AOC-01-MW-23I, AOC-01-MW-23I-FF, AOC-16-MW-E and AOC-16-MW-E-FF. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

Two sets of field duplicate samples (AOC-16-MW-H / FD-20220110-1 and AOC-16-MW-H-FF / FD-20220110-1-FF) were identified as part of this SDG. There were no calculable Relative Percent Differences (RPDs). No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-23I

Sample ID: 22A0722-01 Start Date/Time: 1/12/2022 9:31:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 10:11:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/14/22	1/26/22 22:28	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		1/26/22 22:28
Decachlorobiphenyl [2]	79.6	30-150		1/26/22 22:28
Tetrachloro-m-xylene [1]	78.1	30-150		1/26/22 22:28
Tetrachloro-m-xylene [2]	69.4	30-150		1/26/22 22:28

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-23I- FF

Sample ID: 22A0722-02 Start Date/Time: 1/12/2022 9:31:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 10:11:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.176	0.198	0.176	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG
Aroclor-1221 [1]	<0.163	0.198	0.163	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG
Aroclor-1232 [1]	<0.166	0.198	0.166	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG
Aroclor-1242 [1]	<0.174	0.198	0.174	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG
Aroclor-1248 [1]	<0.165	0.198	0.165	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG
Aroclor-1254 [1]	<0.186	0.198	0.186	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG
Aroclor-1260 [1]	<0.162	0.198	0.162	µg/L	1		608.3	1/14/22	1/26/22 22:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.5	30-150		1/26/22 22:46
Decachlorobiphenyl [2]	91.2	30-150		1/26/22 22:46
Tetrachloro-m-xylene [1]	96.7	30-150		1/26/22 22:46
Tetrachloro-m-xylene [2]	85.6	30-150		1/26/22 22:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-11I

Sample ID: 22A0722-03 Start Date/Time: 1/12/2022 12:12:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 12:52:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.178	0.200	0.178	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG
Aroclor-1221 [1]	<0.165	0.200	0.165	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG
Aroclor-1232 [1]	<0.168	0.200	0.168	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG
Aroclor-1242 [1]	<0.176	0.200	0.176	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG
Aroclor-1248 [1]	<0.167	0.200	0.167	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG
Aroclor-1254 [1]	<0.188	0.200	0.188	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG
Aroclor-1260 [1]	<0.164	0.200	0.164	µg/L	1		608.3	1/14/22	1/26/22 23:03	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.1	30-150		1/26/22 23:03
Decachlorobiphenyl [2]	88.0	30-150		1/26/22 23:03
Tetrachloro-m-xylene [1]	92.1	30-150		1/26/22 23:03
Tetrachloro-m-xylene [2]	81.5	30-150		1/26/22 23:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-11I- FF

Sample ID: 22A0722-04 Start Date/Time: 1/12/2022 12:12:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 12:52:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/14/22	1/26/22 23:21	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		1/26/22 23:21
Decachlorobiphenyl [2]	85.4	30-150		1/26/22 23:21
Tetrachloro-m-xylene [1]	85.9	30-150		1/26/22 23:21
Tetrachloro-m-xylene [2]	76.0	30-150		1/26/22 23:21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-14S

Sample ID: 22A0722-05 Start Date/Time: 1/12/2022 3:34:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 3:54:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/14/22	1/27/22 10:19	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.1	30-150		1/27/22 10:19
Decachlorobiphenyl [2]	81.6	30-150		1/27/22 10:19
Tetrachloro-m-xylene [1]	85.5	30-150		1/27/22 10:19
Tetrachloro-m-xylene [2]	76.8	30-150		1/27/22 10:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-14S-FF

Sample ID: 22A0722-06 Start Date/Time: 1/12/2022 3:34:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 3:54:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/14/22	1/27/22 10:37	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.5	30-150		1/27/22 10:37
Decachlorobiphenyl [2]	79.6	30-150		1/27/22 10:37
Tetrachloro-m-xylene [1]	74.5	30-150		1/27/22 10:37
Tetrachloro-m-xylene [2]	68.0	30-150		1/27/22 10:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-11S

Sample ID: 22A0722-07 Start Date/Time: 1/12/2022 2:10:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 2:50:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/14/22	1/27/22 10:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.7	30-150		1/27/22 10:55
Decachlorobiphenyl [2]	66.8	30-150		1/27/22 10:55
Tetrachloro-m-xylene [1]	76.6	30-150		1/27/22 10:55
Tetrachloro-m-xylene [2]	67.7	30-150		1/27/22 10:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-11S- FF

Sample ID: 22A0722-08 Start Date/Time: 1/12/2022 2:10:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 2:50:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/14/22	1/27/22 11:13	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		1/27/22 11:13
Decachlorobiphenyl [2]	76.7	30-150		1/27/22 11:13
Tetrachloro-m-xylene [1]	82.1	30-150		1/27/22 11:13
Tetrachloro-m-xylene [2]	74.6	30-150		1/27/22 11:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-05I

Sample ID: 22A0722-09 Start Date/Time: 1/11/2022 9:22:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 9:54:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/14/22	1/27/22 0:49	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		1/27/22 0:49
Decachlorobiphenyl [2]	86.6	30-150		1/27/22 0:49
Tetrachloro-m-xylene [1]	92.8	30-150		1/27/22 0:49
Tetrachloro-m-xylene [2]	82.0	30-150		1/27/22 0:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-05I- FF

Sample ID: 22A0722-10 Start Date/Time: 1/11/2022 9:22:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 9:54:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/14/22	1/27/22 1:07	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		1/27/22 1:07
Decachlorobiphenyl [2]	78.8	30-150		1/27/22 1:07
Tetrachloro-m-xylene [1]	81.5	30-150		1/27/22 1:07
Tetrachloro-m-xylene [2]	72.0	30-150		1/27/22 1:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-PZ-07

Sample ID: 22A0722-11 Start Date/Time: 1/11/2022 1:52:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 2:15:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/14/22	1/27/22 11:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.5	30-150		1/27/22 11:30
Decachlorobiphenyl [2]	59.6	30-150		1/27/22 11:30
Tetrachloro-m-xylene [1]	74.0	30-150		1/27/22 11:30
Tetrachloro-m-xylene [2]	68.2	30-150		1/27/22 11:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-PZ-07- FF

Sample ID: 22A0722-12 Start Date/Time: 1/11/2022 1:52:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 2:15:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/14/22	1/27/22 11:48	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		1/27/22 11:48
Decachlorobiphenyl [2]	75.2	30-150		1/27/22 11:48
Tetrachloro-m-xylene [1]	79.4	30-150		1/27/22 11:48
Tetrachloro-m-xylene [2]	72.0	30-150		1/27/22 11:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-15S

Sample ID: 22A0722-13 Start Date/Time: 1/12/2022 12:52:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 1:35:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/14/22	1/27/22 12:06	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.2	30-150		1/27/22 12:06
Decachlorobiphenyl [2]	67.5	30-150		1/27/22 12:06
Tetrachloro-m-xylene [1]	70.0	30-150		1/27/22 12:06
Tetrachloro-m-xylene [2]	63.5	30-150		1/27/22 12:06

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-15S- FF

Sample ID: 22A0722-14 Start Date/Time: 1/12/2022 12:52:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 1:35:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/14/22	1/27/22 12:23	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		1/27/22 12:23
Decachlorobiphenyl [2]	76.9	30-150		1/27/22 12:23
Tetrachloro-m-xylene [1]	76.4	30-150		1/27/22 12:23
Tetrachloro-m-xylene [2]	69.7	30-150		1/27/22 12:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-12I

Sample ID: 22A0722-15 Start Date/Time: 1/12/2022 11:13:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 12:10:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/14/22	1/27/22 4:27	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		1/27/22 4:27
Decachlorobiphenyl [2]	85.2	30-150		1/27/22 4:27
Tetrachloro-m-xylene [1]	71.0	30-150		1/27/22 4:27
Tetrachloro-m-xylene [2]	62.9	30-150		1/27/22 4:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-12I- FF

Sample ID: 22A0722-16 Start Date/Time: 1/12/2022 11:13:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 12:10:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/14/22	1/27/22 4:44	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		1/27/22 4:44
Decachlorobiphenyl [2]	80.5	30-150		1/27/22 4:44
Tetrachloro-m-xylene [1]	76.3	30-150		1/27/22 4:44
Tetrachloro-m-xylene [2]	67.5	30-150		1/27/22 4:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-16-MW-E

Sample ID: 22A0722-17 Start Date/Time: 1/10/2022 10:55:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 11:30:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/14/22	1/27/22 5:02	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		1/27/22 5:02
Decachlorobiphenyl [2]	79.0	30-150		1/27/22 5:02
Tetrachloro-m-xylene [1]	83.4	30-150		1/27/22 5:02
Tetrachloro-m-xylene [2]	73.3	30-150		1/27/22 5:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-16-MW-E

Sample ID: 22A0722-18 Start Date/Time: 1/10/2022 10:55:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 11:30:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/14/22	1/27/22 5:19	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		1/27/22 5:19
Decachlorobiphenyl [2]	81.4	30-150		1/27/22 5:19
Tetrachloro-m-xylene [1]	86.9	30-150		1/27/22 5:19
Tetrachloro-m-xylene [2]	76.3	30-150		1/27/22 5:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-16-MW-H

Sample ID: 22A0722-19 Start Date/Time: 1/10/2022 1:35:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 2:06:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/14/22	1/27/22 12:41	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		1/27/22 12:41
Decachlorobiphenyl [2]	73.7	30-150		1/27/22 12:41
Tetrachloro-m-xylene [1]	76.5	30-150		1/27/22 12:41
Tetrachloro-m-xylene [2]	69.6	30-150		1/27/22 12:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-16-MW-H- FF

Sample ID: 22A0722-20 Start Date/Time: 1/10/2022 1:35:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 2:06:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.139	0.156	0.139	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG
Aroclor-1221 [1]	<0.129	0.156	0.129	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG
Aroclor-1232 [1]	<0.131	0.156	0.131	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG
Aroclor-1242 [1]	<0.138	0.156	0.138	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG
Aroclor-1248 [1]	<0.130	0.156	0.130	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG
Aroclor-1254 [1]	<0.147	0.156	0.147	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG
Aroclor-1260 [1]	<0.128	0.156	0.128	µg/L	1		608.3	1/14/22	1/27/22 12:59	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.8	30-150		1/27/22 12:59
Decachlorobiphenyl [2]	78.6	30-150		1/27/22 12:59
Tetrachloro-m-xylene [1]	79.1	30-150		1/27/22 12:59
Tetrachloro-m-xylene [2]	71.4	30-150		1/27/22 12:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: FD-20220110-1 Sampled: 1/10/2022 00:00

Sample ID: 22A0722-21

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/17/22	1/27/22 14:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.1	30-150		1/27/22 14:20
Decachlorobiphenyl [2]	80.3	30-150		1/27/22 14:20
Tetrachloro-m-xylene [1]	76.4	30-150		1/27/22 14:20
Tetrachloro-m-xylene [2]	68.5	30-150		1/27/22 14:20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: FD-20220110-1- FF Sampled: 1/10/2022 00:00

Sample ID: 22A0722-22

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.159	0.179	0.159	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG
Aroclor-1221 [1]	<0.148	0.179	0.148	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG
Aroclor-1232 [1]	<0.150	0.179	0.150	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG
Aroclor-1242 [1]	<0.158	0.179	0.158	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG
Aroclor-1248 [1]	<0.150	0.179	0.150	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG
Aroclor-1254 [1]	<0.168	0.179	0.168	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG
Aroclor-1260 [1]	<0.147	0.179	0.147	µg/L	1		608.3	1/17/22	1/27/22 14:37	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		1/27/22 14:37
Decachlorobiphenyl [2]	88.2	30-150		1/27/22 14:37
Tetrachloro-m-xylene [1]	75.0	30-150		1/27/22 14:37
Tetrachloro-m-xylene [2]	67.3	30-150		1/27/22 14:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-05-MW-04S

Sample ID: 22A0722-23 Start Date/Time: 1/10/2022 3:32:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 3:58:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.181	0.203	0.181	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG
Aroclor-1221 [1]	<0.168	0.203	0.168	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG
Aroclor-1232 [1]	<0.171	0.203	0.171	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG
Aroclor-1242 [1]	<0.179	0.203	0.179	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG
Aroclor-1248 [1]	<0.170	0.203	0.170	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG
Aroclor-1254 [1]	<0.191	0.203	0.191	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG
Aroclor-1260 [1]	<0.166	0.203	0.166	µg/L	1		608.3	1/17/22	1/27/22 14:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		1/27/22 14:55
Decachlorobiphenyl [2]	89.8	30-150		1/27/22 14:55
Tetrachloro-m-xylene [1]	76.9	30-150		1/27/22 14:55
Tetrachloro-m-xylene [2]	68.1	30-150		1/27/22 14:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-05-MW-04S- FF

Sample ID: 22A0722-24 Start Date/Time: 1/10/2022 3:32:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 3:58:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.205	0.230	0.205	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG
Aroclor-1221 [1]	<0.190	0.230	0.190	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG
Aroclor-1232 [1]	<0.193	0.230	0.193	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG
Aroclor-1242 [1]	<0.202	0.230	0.202	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG
Aroclor-1248 [1]	<0.192	0.230	0.192	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG
Aroclor-1254 [1]	<0.216	0.230	0.216	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG
Aroclor-1260 [1]	<0.189	0.230	0.189	µg/L	1		608.3	1/17/22	1/27/22 15:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.5	30-150		1/27/22 15:12
Decachlorobiphenyl [2]	93.3	30-150		1/27/22 15:12
Tetrachloro-m-xylene [1]	84.6	30-150		1/27/22 15:12
Tetrachloro-m-xylene [2]	72.3	30-150		1/27/22 15:12

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-5-PZ-06

Sample ID: 22A0722-25 Start Date/Time: 1/10/2022 3:20:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 9:49:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.209	0.235	0.209	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG
Aroclor-1221 [1]	<0.194	0.235	0.194	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG
Aroclor-1232 [1]	<0.198	0.235	0.198	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG
Aroclor-1242 [1]	<0.207	0.235	0.207	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG
Aroclor-1248 [1]	<0.196	0.235	0.196	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG
Aroclor-1254 [1]	<0.221	0.235	0.221	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG
Aroclor-1260 [1]	<0.193	0.235	0.193	µg/L	1		608.3	1/17/22	1/27/22 15:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	47.6	30-150		1/27/22 15:30
Decachlorobiphenyl [2]	45.6	30-150		1/27/22 15:30
Tetrachloro-m-xylene [1]	47.6	30-150		1/27/22 15:30
Tetrachloro-m-xylene [2]	42.5	30-150		1/27/22 15:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-5-PZ-06- FF

Sample ID: 22A0722-26 Start Date/Time: 1/10/2022 3:20:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 9:49:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.175	0.196	0.175	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG
Aroclor-1221 [1]	<0.162	0.196	0.162	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG
Aroclor-1232 [1]	<0.165	0.196	0.165	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG
Aroclor-1242 [1]	<0.173	0.196	0.173	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG
Aroclor-1248 [1]	<0.164	0.196	0.164	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG
Aroclor-1254 [1]	<0.184	0.196	0.184	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG
Aroclor-1260 [1]	<0.161	0.196	0.161	µg/L	1		608.3	1/17/22	1/27/22 15:47	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	48.7	30-150		1/27/22 15:47
Decachlorobiphenyl [2]	46.7	30-150		1/27/22 15:47
Tetrachloro-m-xylene [1]	68.1	30-150		1/27/22 15:47
Tetrachloro-m-xylene [2]	61.7	30-150		1/27/22 15:47

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS_HW3a-ICP-AES Rev 1.1), USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22A0733
SAMPLING DATE(S):	January 10-12, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB
AOC-05-MW-4I	22A0733-01	X
AOC-05-MW-4IMS	22A0733-01MS	X
AOC-05-MW-4IMSD	22A0733-01MSD	X
AOC-05-MW-4I-FF	22A0733-02	X
AOC-05-MW-4I-FFMS	22A0733-02MS	X
AOC-05-MW-4I-FFMSD	22A0733-02MSD	X
AOC-16-PZ-B	22A0733-03	X
AOC-16-PZ-B-FF	22A0733-04	X
AOC-03-PZ-10	22A0733-05	X
AOC-03-PZ-10-FF	22A0733-06	X
AOC-01-MS-12S	22A0733-07	X
AOC-01-MS-12S-FF	22A0733-08	X
FD-20220112-1	22A0733-09	X
FD-20220112-1-FF	22A0733-10	X
AOC-02-MW-3S	22A0733-11	X
AOC-02-MW-3S-FF	22A0733-12	X
AOC-03-PZ-09	22A0733-13	X

Client Sample ID	Laboratory ID	PCB
AOC-03-PZ-09-FF	22A0733-14	X
AOC-16-PZ-C	22A0733-15	X
AOC-16-PZ-C-FF	22A0733-16	X
AOC-16-PZ-D	22A0733-17	X
AOC-16-PZ-D-FF	22A0733-18	X
AOC-16-PZ-A	22A0733-19	X
AOC-16-PZ-A-FF	22A0733-20	X
AOC-16-PZ-08	22A0733-21	X
AOC-16-PZ-08-FF	22A0733-22	X
MW-22S	22A0733-23	X
MW-22S-FF	22A0733-24	X
MW-22I	22A0733-25	X
MW-22I-FF	22A0733-26	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A0733

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

The 8 days between sample collection and extraction for AOC-02-MW-3S-FF exceeded the 7-day QC limit. The results for this sample, which were all non-detect, were qualified as estimated (UJ).

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was

necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG samples AOC-05-MW-4I and AOC-05-MW-4I-FF. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

Two sets of field duplicate samples (AOC-01-MW-12S / FD-20220112-1 and AOC-01-MW-12S-FF / FD-20220112-1-FF) were identified as part of this SDG. There were no calculable Relative Percent Differences (RPDs). No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-05-MW-4I

Sample ID: 22A0733-01 Start Date/Time: 1/11/2022 11:26:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 12:04:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.192	0.216	0.192	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM
Aroclor-1221 [1]	<0.178	0.216	0.178	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM
Aroclor-1232 [1]	<0.182	0.216	0.182	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM
Aroclor-1242 [1]	<0.190	0.216	0.190	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM
Aroclor-1248 [1]	<0.181	0.216	0.181	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM
Aroclor-1254 [1]	<0.203	0.216	0.203	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM
Aroclor-1260 [1]	<0.177	0.216	0.177	µg/L	1		608.3	1/18/22	1/26/22 18:25	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.4	30-150		1/26/22 18:25
Decachlorobiphenyl [2]	83.4	30-150		1/26/22 18:25
Tetrachloro-m-xylene [1]	72.1	30-150		1/26/22 18:25
Tetrachloro-m-xylene [2]	66.2	30-150		1/26/22 18:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-05-MW-4I- FF

Sample ID: 22A0733-02 Start Date/Time: 1/11/2022 11:26:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 12:04:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.185	0.208	0.185	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG
Aroclor-1221 [1]	<0.172	0.208	0.172	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG
Aroclor-1232 [1]	<0.175	0.208	0.175	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG
Aroclor-1242 [1]	<0.183	0.208	0.183	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG
Aroclor-1248 [1]	<0.174	0.208	0.174	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG
Aroclor-1254 [1]	<0.196	0.208	0.196	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG
Aroclor-1260 [1]	<0.171	0.208	0.171	µg/L	1		608.3	1/17/22	1/27/22 16:05	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.7	30-150		1/27/22 16:05
Decachlorobiphenyl [2]	95.3	30-150		1/27/22 16:05
Tetrachloro-m-xylene [1]	85.1	30-150		1/27/22 16:05
Tetrachloro-m-xylene [2]	71.5	30-150		1/27/22 16:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-B

Sample ID: 22A0733-03 Start Date/Time: 1/11/2022 11:18:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 11:59:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/17/22	1/27/22 16:22	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.5	30-150		1/27/22 16:22
Decachlorobiphenyl [2]	91.7	30-150		1/27/22 16:22
Tetrachloro-m-xylene [1]	74.4	30-150		1/27/22 16:22
Tetrachloro-m-xylene [2]	66.1	30-150		1/27/22 16:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-B- FF

Sample ID: 22A0733-04 Start Date/Time: 1/11/2022 11:18:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 11:59:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.200	0.225	0.200	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM
Aroclor-1221 [1]	<0.185	0.225	0.185	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM
Aroclor-1232 [1]	<0.189	0.225	0.189	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM
Aroclor-1242 [1]	<0.198	0.225	0.198	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM
Aroclor-1248 [1]	<0.188	0.225	0.188	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM
Aroclor-1254 [1]	<0.211	0.225	0.211	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM
Aroclor-1260 [1]	<0.184	0.225	0.184	µg/L	1		608.3	1/18/22	1/26/22 18:43	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.7	30-150		1/26/22 18:43
Decachlorobiphenyl [2]	89.9	30-150		1/26/22 18:43
Tetrachloro-m-xylene [1]	84.7	30-150		1/26/22 18:43
Tetrachloro-m-xylene [2]	73.8	30-150		1/26/22 18:43

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-03-PZ-10

Sample ID: 22A0733-05 Start Date/Time: 1/12/2022 2:07:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 2:44:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.197	0.221	0.197	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM
Aroclor-1221 [1]	<0.182	0.221	0.182	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM
Aroclor-1232 [1]	<0.186	0.221	0.186	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM
Aroclor-1242 [2]	1.80	0.221	0.186	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM
Aroclor-1248 [1]	<0.185	0.221	0.185	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM
Aroclor-1254 [1]	<0.208	0.221	0.208	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM
Aroclor-1260 [2]	<0.182	0.221	0.182	µg/L	1		608.3	1/18/22	1/27/22 8:28	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.2	30-150		1/27/22 8:28
Decachlorobiphenyl [2]	54.7	30-150		1/27/22 8:28
Tetrachloro-m-xylene [1]	69.5	30-150		1/27/22 8:28
Tetrachloro-m-xylene [2]	64.7	30-150		1/27/22 8:28

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-03-PZ-10- FF

Sample ID: 22A0733-06 Start Date/Time: 1/12/2022 2:07:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 2:44:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/18/22	1/27/22 8:46	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.8	30-150		1/27/22 8:46
Decachlorobiphenyl [2]	56.1	30-150		1/27/22 8:46
Tetrachloro-m-xylene [1]	68.4	30-150		1/27/22 8:46
Tetrachloro-m-xylene [2]	61.6	30-150		1/27/22 8:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-12S

Sample ID: 22A0733-07 Start Date/Time: 1/12/2022 9:45:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 10:16:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.190	0.214	0.190	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM
Aroclor-1221 [1]	<0.176	0.214	0.176	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM
Aroclor-1232 [1]	<0.180	0.214	0.180	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM
Aroclor-1242 [2]	<0.180	0.214	0.180	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM
Aroclor-1248 [1]	<0.179	0.214	0.179	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM
Aroclor-1254 [1]	<0.201	0.214	0.201	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM
Aroclor-1260 [1]	<0.175	0.214	0.175	µg/L	1		608.3	1/18/22	1/28/22 10:32	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.9	30-150		1/28/22 10:32
Decachlorobiphenyl [2]	71.9	30-150		1/28/22 10:32
Tetrachloro-m-xylene [1]	70.6	30-150		1/28/22 10:32
Tetrachloro-m-xylene [2]	60.6	30-150		1/28/22 10:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-12S- FF

Sample ID: 22A0733-08 Start Date/Time: 1/12/2022 9:45:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 10:16:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.193	0.217	0.193	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM
Aroclor-1221 [1]	<0.179	0.217	0.179	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM
Aroclor-1232 [1]	<0.183	0.217	0.183	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM
Aroclor-1242 [1]	<0.191	0.217	0.191	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM
Aroclor-1248 [1]	<0.182	0.217	0.182	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM
Aroclor-1254 [1]	<0.204	0.217	0.204	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM
Aroclor-1260 [1]	<0.178	0.217	0.178	µg/L	1		608.3	1/18/22	1/28/22 10:49	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.2	30-150		1/28/22 10:49
Decachlorobiphenyl [2]	67.5	30-150		1/28/22 10:49
Tetrachloro-m-xylene [1]	52.7	30-150		1/28/22 10:49
Tetrachloro-m-xylene [2]	43.8	30-150		1/28/22 10:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: FD-20220112-1 Sampled: 1/12/2022 00:00

Sample ID: 22A0733-09

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.193	0.217	0.193	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM
Aroclor-1221 [1]	<0.179	0.217	0.179	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM
Aroclor-1232 [1]	<0.183	0.217	0.183	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM
Aroclor-1242 [1]	<0.191	0.217	0.191	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM
Aroclor-1248 [1]	<0.182	0.217	0.182	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM
Aroclor-1254 [1]	<0.204	0.217	0.204	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM
Aroclor-1260 [1]	<0.178	0.217	0.178	µg/L	1		608.3	1/18/22	1/28/22 11:07	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		1/28/22 11:07
Decachlorobiphenyl [2]	71.3	30-150		1/28/22 11:07
Tetrachloro-m-xylene [1]	55.6	30-150		1/28/22 11:07
Tetrachloro-m-xylene [2]	47.2	30-150		1/28/22 11:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: FD-20220112-1- FF Sampled: 1/12/2022 00:00

Sample ID: 22A0733-10

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.193	0.217	0.193	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM
Aroclor-1221 [1]	<0.179	0.217	0.179	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM
Aroclor-1232 [1]	<0.183	0.217	0.183	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM
Aroclor-1242 [1]	<0.191	0.217	0.191	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM
Aroclor-1248 [1]	<0.182	0.217	0.182	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM
Aroclor-1254 [1]	<0.204	0.217	0.204	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM
Aroclor-1260 [1]	<0.178	0.217	0.178	µg/L	1		608.3	1/18/22	1/28/22 11:27	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		1/28/22 11:27
Decachlorobiphenyl [2]	75.7	30-150		1/28/22 11:27
Tetrachloro-m-xylene [1]	58.6	30-150		1/28/22 11:27
Tetrachloro-m-xylene [2]	50.4	30-150		1/28/22 11:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-02-MW-3S

Sample ID: 22A0733-11 Start Date/Time: 1/10/2022 3:43:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 4:20:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/17/22	1/27/22 16:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		1/27/22 16:40
Decachlorobiphenyl [2]	90.3	30-150		1/27/22 16:40
Tetrachloro-m-xylene [1]	85.1	30-150		1/27/22 16:40
Tetrachloro-m-xylene [2]	71.7	30-150		1/27/22 16:40

con-test®
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-02-MW-3S- FF

Sample ID: 22A0733-12 Start Date/Time: 1/10/2022 3:43:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 4:20:00PM

Sample Flags: H-06

Polychlorinated Biphenyls By GC/ECD

Analyte		Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	UJ	<0.192	0.216	0.192	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM
Aroclor-1221 [1]		<0.178	0.216	0.178	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM
Aroclor-1232 [1]		<0.182	0.216	0.182	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM
Aroclor-1242 [1]		<0.190	0.216	0.190	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM
Aroclor-1248 [1]		<0.181	0.216	0.181	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM
Aroclor-1254 [1]		<0.203	0.216	0.203	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM
Aroclor-1260 [1]		<0.177	0.216	0.177	µg/L	1		608.3	1/18/22	1/26/22 23:27	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.1	30-150		1/26/22 23:27
Decachlorobiphenyl [2]	78.0	30-150		1/26/22 23:27
Tetrachloro-m-xylene [1]	74.6	30-150		1/26/22 23:27
Tetrachloro-m-xylene [2]	66.4	30-150		1/26/22 23:27

ALH 3/9/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-03-PZ-09

Sample ID: 22A0733-13 Start Date/Time: 1/10/2022 4:15:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 4:35:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.176	0.198	0.176	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG
Aroclor-1221 [1]	<0.163	0.198	0.163	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG
Aroclor-1232 [1]	<0.166	0.198	0.166	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG
Aroclor-1242 [2]	2.30	0.198	0.166	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG
Aroclor-1248 [1]	<0.165	0.198	0.165	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG
Aroclor-1254 [1]	<0.186	0.198	0.186	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG
Aroclor-1260 [1]	<0.162	0.198	0.162	µg/L	1		608.3	1/17/22	1/27/22 17:45	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		1/27/22 17:45
Decachlorobiphenyl [2]	92.4	30-150		1/27/22 17:45
Tetrachloro-m-xylene [1]	86.3	30-150		1/27/22 17:45
Tetrachloro-m-xylene [2]	73.5	30-150		1/27/22 17:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-03-PZ-09- FF

Sample ID: 22A0733-14 Start Date/Time: 1/10/2022 4:15:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 4:35:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.178	0.200	0.178	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG
Aroclor-1221 [1]	<0.165	0.200	0.165	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG
Aroclor-1232 [1]	<0.168	0.200	0.168	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG
Aroclor-1242 [1]	<0.176	0.200	0.176	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG
Aroclor-1248 [1]	<0.167	0.200	0.167	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG
Aroclor-1254 [1]	<0.188	0.200	0.188	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG
Aroclor-1260 [1]	<0.164	0.200	0.164	µg/L	1		608.3	1/17/22	1/27/22 18:02	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.7	30-150		1/27/22 18:02
Decachlorobiphenyl [2]	95.9	30-150		1/27/22 18:02
Tetrachloro-m-xylene [1]	86.5	30-150		1/27/22 18:02
Tetrachloro-m-xylene [2]	71.9	30-150		1/27/22 18:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-C

Sample ID: 22A0733-15 Start Date/Time: 1/10/2022 10:37:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 11:17:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/17/22	1/27/22 18:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		1/27/22 18:20
Decachlorobiphenyl [2]	79.2	30-150		1/27/22 18:20
Tetrachloro-m-xylene [1]	65.9	30-150		1/27/22 18:20
Tetrachloro-m-xylene [2]	60.6	30-150		1/27/22 18:20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-C- FF

Sample ID: 22A0733-16 Start Date/Time: 1/10/2022 10:37:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 11:17:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/17/22	1/27/22 18:37	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.9	30-150		1/27/22 18:37
Decachlorobiphenyl [2]	78.5	30-150		1/27/22 18:37
Tetrachloro-m-xylene [1]	62.7	30-150		1/27/22 18:37
Tetrachloro-m-xylene [2]	57.0	30-150		1/27/22 18:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-D

Sample ID: 22A0733-17 Start Date/Time: 1/10/2022 12:21:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 1:00:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/17/22	1/27/22 18:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		1/27/22 18:55
Decachlorobiphenyl [2]	83.7	30-150		1/27/22 18:55
Tetrachloro-m-xylene [1]	64.7	30-150		1/27/22 18:55
Tetrachloro-m-xylene [2]	59.0	30-150		1/27/22 18:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-D- FF

Sample ID: 22A0733-18 Start Date/Time: 1/10/2022 12:21:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 1:00:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/17/22	1/27/22 19:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.0	30-150		1/27/22 19:12
Decachlorobiphenyl [2]	80.5	30-150		1/27/22 19:12
Tetrachloro-m-xylene [1]	62.6	30-150		1/27/22 19:12
Tetrachloro-m-xylene [2]	55.9	30-150		1/27/22 19:12

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-A

Sample ID: 22A0733-19 Start Date/Time: 1/10/2022 1:55:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 2:30:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.175	0.196	0.175	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG
Aroclor-1221 [1]	<0.162	0.196	0.162	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG
Aroclor-1232 [1]	<0.165	0.196	0.165	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG
Aroclor-1242 [1]	<0.173	0.196	0.173	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG
Aroclor-1248 [1]	<0.164	0.196	0.164	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG
Aroclor-1254 [1]	<0.184	0.196	0.184	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG
Aroclor-1260 [1]	<0.161	0.196	0.161	µg/L	1		608.3	1/17/22	1/27/22 19:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		1/27/22 19:30
Decachlorobiphenyl [2]	81.8	30-150		1/27/22 19:30
Tetrachloro-m-xylene [1]	68.3	30-150		1/27/22 19:30
Tetrachloro-m-xylene [2]	61.8	30-150		1/27/22 19:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-A- FF

Sample ID: 22A0733-20 Start Date/Time: 1/10/2022 1:55:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 2:30:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/17/22	1/27/22 19:47	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		1/27/22 19:47
Decachlorobiphenyl [2]	76.3	30-150		1/27/22 19:47
Tetrachloro-m-xylene [1]	60.3	30-150		1/27/22 19:47
Tetrachloro-m-xylene [2]	54.4	30-150		1/27/22 19:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-08

Sample ID: 22A0733-21 Start Date/Time: 1/11/2022 3:18:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 3:52:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG
Aroclor-1260 [2]	0.294	0.222	0.183	µg/L	1		608.3	1/17/22	1/27/22 20:05	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.8	30-150		1/27/22 20:05
Decachlorobiphenyl [2]	51.3	30-150		1/27/22 20:05
Tetrachloro-m-xylene [1]	62.0	30-150		1/27/22 20:05
Tetrachloro-m-xylene [2]	55.1	30-150		1/27/22 20:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-16-PZ-08- FF

Sample ID: 22A0733-22 Start Date/Time: 1/11/2022 3:18:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/11/2022 3:52:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.174	0.195	0.174	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM
Aroclor-1221 [1]	<0.161	0.195	0.161	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM
Aroclor-1232 [1]	<0.164	0.195	0.164	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM
Aroclor-1242 [1]	<0.172	0.195	0.172	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM
Aroclor-1248 [1]	<0.163	0.195	0.163	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM
Aroclor-1254 [1]	<0.183	0.195	0.183	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM
Aroclor-1260 [1]	<0.160	0.195	0.160	µg/L	1		608.3	1/18/22	1/28/22 11:44	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		1/28/22 11:44
Decachlorobiphenyl [2]	70.6	30-150		1/28/22 11:44
Tetrachloro-m-xylene [1]	68.5	30-150		1/28/22 11:44
Tetrachloro-m-xylene [2]	58.7	30-150		1/28/22 11:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: MW-22S

Sample ID: 22A0733-23 Start Date/Time: 1/12/2022 2:28:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 3:04:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.205	0.230	0.205	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM
Aroclor-1221 [1]	<0.190	0.230	0.190	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM
Aroclor-1232 [1]	<0.193	0.230	0.193	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM
Aroclor-1242 [1]	<0.202	0.230	0.202	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM
Aroclor-1248 [1]	<0.192	0.230	0.192	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM
Aroclor-1254 [1]	<0.216	0.230	0.216	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM
Aroclor-1260 [1]	<0.189	0.230	0.189	µg/L	1		608.3	1/18/22	1/27/22 0:02	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		1/27/22 0:02
Decachlorobiphenyl [2]	72.8	30-150		1/27/22 0:02
Tetrachloro-m-xylene [1]	60.8	30-150		1/27/22 0:02
Tetrachloro-m-xylene [2]	53.3	30-150		1/27/22 0:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: MW-22S- FF

Sample ID: 22A0733-24 Start Date/Time: 1/12/2022 2:28:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 3:04:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.212	0.238	0.212	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM
Aroclor-1221 [1]	<0.196	0.238	0.196	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM
Aroclor-1232 [1]	<0.200	0.238	0.200	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM
Aroclor-1242 [1]	<0.210	0.238	0.210	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM
Aroclor-1248 [1]	<0.199	0.238	0.199	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM
Aroclor-1254 [1]	<0.224	0.238	0.224	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM
Aroclor-1260 [1]	<0.195	0.238	0.195	µg/L	1		608.3	1/18/22	1/27/22 0:19	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.7	30-150		1/27/22 0:19
Decachlorobiphenyl [2]	73.5	30-150		1/27/22 0:19
Tetrachloro-m-xylene [1]	61.8	30-150		1/27/22 0:19
Tetrachloro-m-xylene [2]	54.9	30-150		1/27/22 0:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: MW-22I Sampled: 1/12/2022 10:00

Sample ID: 22A0733-25

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.181	0.203	0.181	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM
Aroclor-1221 [1]	<0.168	0.203	0.168	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM
Aroclor-1232 [1]	<0.171	0.203	0.171	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM
Aroclor-1242 [1]	<0.179	0.203	0.179	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM
Aroclor-1248 [1]	<0.170	0.203	0.170	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM
Aroclor-1254 [1]	<0.191	0.203	0.191	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM
Aroclor-1260 [1]	<0.166	0.203	0.166	µg/L	1		608.3	1/18/22	1/27/22 0:37	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.9	30-150		1/27/22 0:37
Decachlorobiphenyl [2]	56.7	30-150		1/27/22 0:37
Tetrachloro-m-xylene [1]	54.9	30-150		1/27/22 0:37
Tetrachloro-m-xylene [2]	47.8	30-150		1/27/22 0:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: MW-22I- FF Sampled: 1/12/2022 10:00

Sample ID: 22A0733-26

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.189	0.213	0.189	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM
Aroclor-1221 [1]	<0.176	0.213	0.176	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM
Aroclor-1232 [1]	<0.179	0.213	0.179	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM
Aroclor-1242 [1]	<0.187	0.213	0.187	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM
Aroclor-1248 [1]	<0.178	0.213	0.178	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM
Aroclor-1254 [1]	<0.200	0.213	0.200	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM
Aroclor-1260 [1]	<0.174	0.213	0.174	µg/L	1		608.3	1/18/22	1/27/22 0:54	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.9	30-150		1/27/22 0:54
Decachlorobiphenyl [2]	68.2	30-150		1/27/22 0:54
Tetrachloro-m-xylene [1]	53.0	30-150		1/27/22 0:54
Tetrachloro-m-xylene [2]	46.5	30-150		1/27/22 0:54

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS HW3a-ICP-AES Rev 1.1); USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)*
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22A0825
SAMPLING DATE(S):	January 13, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB	PCB*
AOC-01-MW-13S	22A0825-01	X	X
AOC-01-MW-13S-FF	22A0825-02	X	
AOC-01-MW-13I	22A0825-03	X	X
AOC-01-MW-13I-FF	22A0825-04	X	
AOC-01-MW-10S	22A0825-05	X	X
AOC-01-MW-10S-FF	22A0825-06	X	
AOC-01-MW-10I	22A0825-07	X	X
AOC-01-MW-10I-FF	22A0825-08	X	
MW-J	22A0825-09	X	X
MW-J-FF	22A0825-10	X	
FD-20220113-1	22A0825-11	X	X
FD-20220113-1-FF	22A0825-12	X	
MW-17I	22A0825-13	X	X
MW-17I-FF	22A0825-14	X	

* -PCB by EPA Method 680 (GC/MS)

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A0825

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this fraction of the SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data were not submitted for this SDG. Data qualification based on the absence of MS / MSD criteria was not required. No data qualification was necessary.

X.) Field Duplicates:

Two sets of field duplicate samples (MW-J / FD-20220113-1 and MW-J-FF / FD-20220113-1-FF) were identified as part of this SDG. There were no calculable Relative Percent Differences (RPDs). No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 680.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this fraction of the SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data were not submitted for this SDG. Data qualification based on the absence of MS / MSD criteria was not required. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (MW-J / FD-20220113-1) was identified as part of this SDG. There were no calculable Relative Percent Differences (RPDs). No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-13S

Sample ID: 22A0825-01 Start Date/Time: 1/13/2022 9:58:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 10:29:00AM

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0011	0.00044	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Dichlorobiphenyls	ND	0.0011	0.00018	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Trichlorobiphenyls	ND	0.0023	0.00031	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Tetrachlorobiphenyls	ND	0.0023	0.00036	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Pentachlorobiphenyls	ND	0.0023	0.00054	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Hexachlorobiphenyls	ND	0.0023	0.00059	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Heptachlorobiphenyls	ND	0.0034	0.00077	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Octachlorobiphenyls	ND	0.0034	0.00091	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Nonachlorobiphenyls	ND	0.0057	0.0012	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Decachlorobiphenyl	ND	0.0057	0.0014	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:19	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	118	50-125		1/22/22 10:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-13S

Sample ID: 22A0825-01 Start Date/Time: 1/13/2022 9:58:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 10:29:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/19/22	1/28/22 0:59	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		1/28/22 0:59
Decachlorobiphenyl [2]	79.5	30-150		1/28/22 0:59
Tetrachloro-m-xylene [1]	79.1	30-150		1/28/22 0:59
Tetrachloro-m-xylene [2]	70.7	30-150		1/28/22 0:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-13S- FF

Sample ID: 22A0825-02 Start Date/Time: 1/13/2022 9:58:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 10:29:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/19/22	1/28/22 1:17	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.9	30-150		1/28/22 1:17
Decachlorobiphenyl [2]	86.6	30-150		1/28/22 1:17
Tetrachloro-m-xylene [1]	84.1	30-150		1/28/22 1:17
Tetrachloro-m-xylene [2]	74.8	30-150		1/28/22 1:17

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-13I

Sample ID: 22A0825-03 Start Date/Time: 1/13/2022 11:04:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 12:06:00PM

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0010	0.00039	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Dichlorobiphenyls	ND	0.0010	0.00016	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Trichlorobiphenyls	ND	0.0020	0.00028	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Tetrachlorobiphenyls	ND	0.0020	0.00032	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Pentachlorobiphenyls	ND	0.0020	0.00047	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Hexachlorobiphenyls	ND	0.0020	0.00052	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Heptachlorobiphenyls	ND	0.0030	0.00068	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Octachlorobiphenyls	ND	0.0030	0.00080	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Nonachlorobiphenyls	ND	0.0050	0.0011	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Decachlorobiphenyl	ND	0.0050	0.0012	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 10:57	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	117	50-125		1/22/22 10:57

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-13I

Sample ID: 22A0825-03 Start Date/Time: 1/13/2022 11:04:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 12:06:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/19/22	1/28/22 1:35	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.0	30-150		1/28/22 1:35
Decachlorobiphenyl [2]	89.4	30-150		1/28/22 1:35
Tetrachloro-m-xylene [1]	87.4	30-150		1/28/22 1:35
Tetrachloro-m-xylene [2]	78.0	30-150		1/28/22 1:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-13I- FF

Sample ID: 22A0825-04 Start Date/Time: 1/13/2022 11:04:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 12:06:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.185	0.208	0.185	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM
Aroclor-1221 [1]	<0.172	0.208	0.172	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM
Aroclor-1232 [1]	<0.175	0.208	0.175	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM
Aroclor-1242 [1]	<0.183	0.208	0.183	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM
Aroclor-1248 [1]	<0.174	0.208	0.174	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM
Aroclor-1254 [1]	<0.196	0.208	0.196	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM
Aroclor-1260 [1]	<0.171	0.208	0.171	µg/L	1		608.3	1/19/22	1/28/22 1:52	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	89.5	30-150		1/28/22	1:52
Decachlorobiphenyl [2]	87.1	30-150		1/28/22	1:52
Tetrachloro-m-xylene [1]	86.5	30-150		1/28/22	1:52
Tetrachloro-m-xylene [2]	77.4	30-150		1/28/22	1:52

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-10S

Sample ID: 22A0825-05 Start Date/Time: 1/13/2022 11:35:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 12:20:00PM

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0010	0.00039	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Dichlorobiphenyls	ND	0.0010	0.00016	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Trichlorobiphenyls	ND	0.0020	0.00028	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Tetrachlorobiphenyls	ND	0.0020	0.00032	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Pentachlorobiphenyls	ND	0.0020	0.00048	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Hexachlorobiphenyls	ND	0.0020	0.00052	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Heptachlorobiphenyls	ND	0.0030	0.00069	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Octachlorobiphenyls	ND	0.0030	0.00081	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Nonachlorobiphenyls	ND	0.0051	0.0011	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Decachlorobiphenyl	ND	0.0051	0.0013	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 11:34	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	108	50-125		1/22/22 11:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-10S

Sample ID: 22A0825-05 Start Date/Time: 1/13/2022 11:35:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 12:20:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/19/22	1/28/22 2:10	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.5	30-150		1/28/22 2:10
Decachlorobiphenyl [2]	60.7	30-150		1/28/22 2:10
Tetrachloro-m-xylene [1]	75.4	30-150		1/28/22 2:10
Tetrachloro-m-xylene [2]	67.8	30-150		1/28/22 2:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-10S- FF

Sample ID: 22A0825-06 Start Date/Time: 1/13/2022 11:35:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 12:20:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/20/22	1/27/22 22:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.8	30-150		1/27/22 22:09
Decachlorobiphenyl [2]	78.6	30-150		1/27/22 22:09
Tetrachloro-m-xylene [1]	75.0	30-150		1/27/22 22:09
Tetrachloro-m-xylene [2]	70.5	30-150		1/27/22 22:09

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-10I

Sample ID: 22A0825-07 Start Date/Time: 1/13/2022 10:01:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 10:51:00AM

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0010	0.00040	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Dichlorobiphenyls	ND	0.0010	0.00017	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Trichlorobiphenyls	ND	0.0021	0.00028	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Tetrachlorobiphenyls	ND	0.0021	0.00033	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Pentachlorobiphenyls	ND	0.0021	0.00049	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Hexachlorobiphenyls	ND	0.0021	0.00053	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Heptachlorobiphenyls	ND	0.0031	0.00070	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Octachlorobiphenyls	ND	0.0031	0.00083	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Nonachlorobiphenyls	ND	0.0052	0.0011	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Decachlorobiphenyl	ND	0.0052	0.0013	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:11	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	104	50-125		1/22/22 12:11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-10I

Sample ID: 22A0825-07 Start Date/Time: 1/13/2022 10:01:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 10:51:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/20/22	1/27/22 22:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		1/27/22 22:27
Decachlorobiphenyl [2]	78.3	30-150		1/27/22 22:27
Tetrachloro-m-xylene [1]	73.5	30-150		1/27/22 22:27
Tetrachloro-m-xylene [2]	69.9	30-150		1/27/22 22:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: AOC-01-MW-10I- FF

Sample ID: 22A0825-08 Start Date/Time: 1/13/2022 10:01:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 10:51:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.179	0.201	0.179	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB
Aroclor-1221 [1]	<0.166	0.201	0.166	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB
Aroclor-1232 [1]	<0.169	0.201	0.169	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB
Aroclor-1242 [1]	<0.177	0.201	0.177	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB
Aroclor-1248 [1]	<0.168	0.201	0.168	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB
Aroclor-1254 [1]	<0.189	0.201	0.189	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB
Aroclor-1260 [1]	<0.165	0.201	0.165	µg/L	1		608.3	1/20/22	1/27/22 22:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.0	30-150		1/27/22 22:45
Decachlorobiphenyl [2]	86.2	30-150		1/27/22 22:45
Tetrachloro-m-xylene [1]	83.1	30-150		1/27/22 22:45
Tetrachloro-m-xylene [2]	78.4	30-150		1/27/22 22:45

con-test®
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: MW-J

Sample ID: 22A0825-09 Start Date/Time: 1/13/2022 1:35:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 2:57:00PM

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0012	0.00046	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Dichlorobiphenyls	ND	0.0012	0.00019	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Trichlorobiphenyls	ND	0.0024	0.00033	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Tetrachlorobiphenyls	ND	0.0024	0.00038	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Pentachlorobiphenyls	ND	0.0024	0.00056	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Hexachlorobiphenyls	0.0030	0.0024	0.00062	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Heptachlorobiphenyls	ND	0.0036	0.00081	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Octachlorobiphenyls	ND	0.0036	0.00095	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Nonachlorobiphenyls	ND	0.0060	0.0013	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Decachlorobiphenyl	ND	0.0060	0.0015	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR
Total Polychlorinated biphenyls	0.0030			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 12:49	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	104	50-125		1/22/22 12:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: MW-J

Sample ID: 22A0825-09 Start Date/Time: 1/13/2022 1:35:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 2:57:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.209	0.235	0.209	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB
Aroclor-1221 [1]	<0.194	0.235	0.194	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB
Aroclor-1232 [1]	<0.198	0.235	0.198	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB
Aroclor-1242 [1]	<0.207	0.235	0.207	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB
Aroclor-1248 [1]	<0.196	0.235	0.196	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB
Aroclor-1254 [1]	<0.221	0.235	0.221	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB
Aroclor-1260 [1]	<0.193	0.235	0.193	µg/L	1		608.3	1/20/22	1/27/22 23:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		1/27/22 23:03
Decachlorobiphenyl [2]	67.2	30-150		1/27/22 23:03
Tetrachloro-m-xylene [1]	68.0	30-150		1/27/22 23:03
Tetrachloro-m-xylene [2]	64.6	30-150		1/27/22 23:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: MW-J- FF

Sample ID: 22A0825-10 Start Date/Time: 1/13/2022 1:35:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 2:57:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.176	0.198	0.176	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB
Aroclor-1221 [1]	<0.163	0.198	0.163	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB
Aroclor-1232 [1]	<0.166	0.198	0.166	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB
Aroclor-1242 [1]	<0.174	0.198	0.174	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB
Aroclor-1248 [1]	<0.165	0.198	0.165	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB
Aroclor-1254 [1]	<0.186	0.198	0.186	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB
Aroclor-1260 [1]	<0.162	0.198	0.162	µg/L	1		608.3	1/20/22	1/27/22 23:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		1/27/22 23:21
Decachlorobiphenyl [2]	78.6	30-150		1/27/22 23:21
Tetrachloro-m-xylene [1]	72.3	30-150		1/27/22 23:21
Tetrachloro-m-xylene [2]	69.1	30-150		1/27/22 23:21

con-test®
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: FD-20220113-1 Sampled: 1/13/2022 00:00

Sample ID: 22A0825-11

Sample Matrix: Ground Water

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0011	0.00044	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Dichlorobiphenyls	ND	0.0011	0.00018	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Trichlorobiphenyls	ND	0.0022	0.00031	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Tetrachlorobiphenyls	ND	0.0022	0.00036	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Pentachlorobiphenyls	ND	0.0022	0.00053	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Hexachlorobiphenyls	ND	0.0022	0.00058	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Heptachlorobiphenyls	ND	0.0034	0.00076	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Octachlorobiphenyls	ND	0.0034	0.00090	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Nonachlorobiphenyls	ND	0.0056	0.0012	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Decachlorobiphenyl	ND	0.0056	0.0014	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 13:26	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	110	50-125		1/22/22 13:26

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: FD-20220113-1 Sampled: 1/13/2022 00:00

Sample ID: 22A0825-11

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.191	0.215	0.191	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB
Aroclor-1221 [1]	<0.177	0.215	0.177	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB
Aroclor-1232 [1]	<0.181	0.215	0.181	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB
Aroclor-1242 [1]	<0.189	0.215	0.189	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB
Aroclor-1248 [1]	<0.180	0.215	0.180	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB
Aroclor-1254 [1]	<0.202	0.215	0.202	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB
Aroclor-1260 [1]	<0.176	0.215	0.176	µg/L	1		608.3	1/20/22	1/27/22 23:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		1/27/22 23:39
Decachlorobiphenyl [2]	70.0	30-150		1/27/22 23:39
Tetrachloro-m-xylene [1]	63.4	30-150		1/27/22 23:39
Tetrachloro-m-xylene [2]	60.5	30-150		1/27/22 23:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: FD-20220113-1- FF Sampled: 1/13/2022 00:00

Sample ID: 22A0825-12

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.205	0.230	0.205	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB
Aroclor-1221 [1]	<0.190	0.230	0.190	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB
Aroclor-1232 [1]	<0.193	0.230	0.193	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB
Aroclor-1242 [1]	<0.202	0.230	0.202	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB
Aroclor-1248 [1]	<0.192	0.230	0.192	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB
Aroclor-1254 [1]	<0.216	0.230	0.216	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB
Aroclor-1260 [1]	<0.189	0.230	0.189	µg/L	1		608.3	1/20/22	1/27/22 23:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		1/27/22 23:57
Decachlorobiphenyl [2]	69.3	30-150		1/27/22 23:57
Tetrachloro-m-xylene [1]	64.2	30-150		1/27/22 23:57
Tetrachloro-m-xylene [2]	61.8	30-150		1/27/22 23:57

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: MW-17I

Sample ID: 22A0825-13 Start Date/Time: 1/13/2022 1:45:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 2:30:00PM

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0010	0.00040	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Dichlorobiphenyls	ND	0.0010	0.00017	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Trichlorobiphenyls	ND	0.0021	0.00028	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Tetrachlorobiphenyls	ND	0.0021	0.00033	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Pentachlorobiphenyls	ND	0.0021	0.00049	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Hexachlorobiphenyls	ND	0.0021	0.00054	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Heptachlorobiphenyls	ND	0.0031	0.00070	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Octachlorobiphenyls	ND	0.0031	0.00083	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Nonachlorobiphenyls	ND	0.0052	0.0011	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Decachlorobiphenyl	ND	0.0052	0.0013	µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/20/22	1/22/22 14:04	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	124	50-125		1/22/22 14:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: MW-17I

Sample ID: 22A0825-13 Start Date/Time: 1/13/2022 1:45:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 2:30:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/20/22	1/28/22 0:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.0	30-150		1/28/22 0:15
Decachlorobiphenyl [2]	75.1	30-150		1/28/22 0:15
Tetrachloro-m-xylene [1]	72.7	30-150		1/28/22 0:15
Tetrachloro-m-xylene [2]	69.7	30-150		1/28/22 0:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0825

Date Received: 1/15/2022

Field Sample #: MW-17I- FF

Sample ID: 22A0825-14 Start Date/Time: 1/13/2022 1:45:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/13/2022 2:30:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.191	0.215	0.191	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB
Aroclor-1221 [1]	<0.177	0.215	0.177	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB
Aroclor-1232 [1]	<0.181	0.215	0.181	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB
Aroclor-1242 [1]	<0.189	0.215	0.189	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB
Aroclor-1248 [1]	<0.180	0.215	0.180	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB
Aroclor-1254 [1]	<0.202	0.215	0.202	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB
Aroclor-1260 [1]	<0.176	0.215	0.176	µg/L	1		608.3	1/20/22	1/28/22 0:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		1/28/22 0:33
Decachlorobiphenyl [2]	76.6	30-150		1/28/22 0:33
Tetrachloro-m-xylene [1]	69.8	30-150		1/28/22 0:33
Tetrachloro-m-xylene [2]	67.8	30-150		1/28/22 0:33

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS HW3a-ICP-AES Rev 1.1); USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22A1116
SAMPLING DATE(S):	January 14-19, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB
AOC-06-MW-06I	22A1116-01	X
AOC-06-MW-06IMS	22A1116-01MS	X
AOC-06-MW-06IMSD	22A1116-01MSD	X
AOC-06-MW-06I-FF	22A1116-02	X
AOC-06-MW-D	22A1116-03	X
AOC-06-MW-D-FF	22A1116-04	X
AOC-08-MW-07S	22A1116-05	X
AOC-08-MW-07S-FF	22A1116-06	X
AOC-08-MW-07I	22A1116-07	X
AOC-08-MW-07I-FF	22A1116-08	X
AOC-07-MW-1	22A1116-09	X
AOC-07-MW-1MS	22A1116-09MS	X
AOC-07-MS-1MSD	22A1116-09MSD	X
AOC-07-MW-1-FF	22A1116-10	X
AOC-08-MW-18S	22A1116-11	X
AOC-08-MW-18S-FF	22A1116-12	X
AOC-08-MW-18I	22A1116-13	X

Client Sample ID	Laboratory ID	PCB
AOC-08-MW-18I-FF	22A1116-14	X
AOC-08-PZ-05	22A1116-15	X
AOC-08-PZ-05-FF	22A1116-16	X
AOC-02-MW-03I	22A1116-17	X
AOC-02-MW-03I-FF	22A1116-18	X
AOC-09-PZ-01	22A1116-19	X
AOC-09-PZ-01-FF	22A1116-20	X
AOC-11-MW-C	22A1116-21	X
AOC-11-MW-C-FF	22A1116-22	X
AOC-10-MW-08S	22A1116-23	X
AOC-10-MW-08S-FF	22A1116-24	X
AOC-10-MW-08I	22A1116-25	X
AOC-10-MW-08I-FF	22A1116-26	X
AOC-10-PZ-04	22A1116-27	X
AOC-10-PZ-04-FF	22A1116-28	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A1116

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG samples AOC-06-MW-06I and AOC-07-MW-1. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-06-MW-06I

Sample ID: 22A1116-01 Start Date/Time: 1/14/2022 9:46:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 10:33:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.168	0.189	0.168	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM
Aroclor-1221 [1]	<0.156	0.189	0.156	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM
Aroclor-1232 [1]	<0.158	0.189	0.158	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM
Aroclor-1242 [1]	<0.166	0.189	0.166	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM
Aroclor-1248 [1]	<0.158	0.189	0.158	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM
Aroclor-1254 [1]	<0.177	0.189	0.177	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM
Aroclor-1260 [1]	<0.155	0.189	0.155	µg/L	1		608.3	1/21/22	1/28/22 3:00	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.2	30-150		1/28/22 3:00
Decachlorobiphenyl [2]	73.3	30-150		1/28/22 3:00
Tetrachloro-m-xylene [1]	67.4	30-150		1/28/22 3:00
Tetrachloro-m-xylene [2]	63.8	30-150		1/28/22 3:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-06-MW-06I- FF

Sample ID: 22A1116-02 Start Date/Time: 1/14/2022 9:46:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 10:33:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/21/22	1/28/22 3:18	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		1/28/22 3:18
Decachlorobiphenyl [2]	74.1	30-150		1/28/22 3:18
Tetrachloro-m-xylene [1]	66.8	30-150		1/28/22 3:18
Tetrachloro-m-xylene [2]	63.9	30-150		1/28/22 3:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-06-MW-D

Sample ID: 22A1116-03 Start Date/Time: 1/14/2022 11:41:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 12:37:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.175	0.196	0.175	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM
Aroclor-1221 [1]	<0.162	0.196	0.162	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM
Aroclor-1232 [1]	<0.165	0.196	0.165	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM
Aroclor-1242 [1]	<0.173	0.196	0.173	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM
Aroclor-1248 [1]	<0.164	0.196	0.164	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM
Aroclor-1254 [1]	<0.184	0.196	0.184	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM
Aroclor-1260 [1]	<0.161	0.196	0.161	µg/L	1		608.3	1/21/22	1/28/22 3:36	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		1/28/22 3:36
Decachlorobiphenyl [2]	70.4	30-150		1/28/22 3:36
Tetrachloro-m-xylene [1]	70.6	30-150		1/28/22 3:36
Tetrachloro-m-xylene [2]	67.5	30-150		1/28/22 3:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-06-MW-D- FF

Sample ID: 22A1116-04 Start Date/Time: 1/14/2022 11:41:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 12:37:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/21/22	1/28/22 3:53	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		1/28/22 3:53
Decachlorobiphenyl [2]	71.8	30-150		1/28/22 3:53
Tetrachloro-m-xylene [1]	68.2	30-150		1/28/22 3:53
Tetrachloro-m-xylene [2]	65.7	30-150		1/28/22 3:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-07S Sampled: 1/14/2022 11:19

Sample ID: 22A1116-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.189	0.213	0.189	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM
Aroclor-1221 [1]	<0.176	0.213	0.176	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM
Aroclor-1232 [1]	<0.179	0.213	0.179	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM
Aroclor-1242 [1]	<0.187	0.213	0.187	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM
Aroclor-1248 [1]	<0.178	0.213	0.178	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM
Aroclor-1254 [1]	<0.200	0.213	0.200	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM
Aroclor-1260 [1]	<0.174	0.213	0.174	µg/L	1		608.3	1/21/22	1/28/22 4:11	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		1/28/22 4:11
Decachlorobiphenyl [2]	64.3	30-150		1/28/22 4:11
Tetrachloro-m-xylene [1]	70.7	30-150		1/28/22 4:11
Tetrachloro-m-xylene [2]	68.4	30-150		1/28/22 4:11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-07S- FF Sampled: 1/14/2022 11:19

Sample ID: 22A1116-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/21/22	1/28/22 4:29	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.6	30-150		1/28/22 4:29
Decachlorobiphenyl [2]	64.1	30-150		1/28/22 4:29
Tetrachloro-m-xylene [1]	66.3	30-150		1/28/22 4:29
Tetrachloro-m-xylene [2]	65.3	30-150		1/28/22 4:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-07I

Sample ID: 22A1116-07 Start Date/Time: 1/14/2022 2:45:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 3:39:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM
Aroclor-1260 [2]	<0.174	0.211	0.174	µg/L	1		608.3	1/21/22	1/28/22 4:47	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		1/28/22 4:47
Decachlorobiphenyl [2]	76.6	30-150		1/28/22 4:47
Tetrachloro-m-xylene [1]	67.6	30-150		1/28/22 4:47
Tetrachloro-m-xylene [2]	65.2	30-150		1/28/22 4:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-07I- FF

Sample ID: 22A1116-08 Start Date/Time: 1/14/2022 2:45:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 3:39:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/21/22	1/28/22 5:05	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		1/28/22 5:05
Decachlorobiphenyl [2]	73.6	30-150		1/28/22 5:05
Tetrachloro-m-xylene [1]	68.0	30-150		1/28/22 5:05
Tetrachloro-m-xylene [2]	65.5	30-150		1/28/22 5:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-07-MW-1

Sample ID: 22A1116-09 Start Date/Time: 1/19/2022 8:50:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 9:32:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.178	0.200	0.178	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG
Aroclor-1221 [1]	<0.165	0.200	0.165	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG
Aroclor-1232 [1]	<0.168	0.200	0.168	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG
Aroclor-1242 [1]	<0.176	0.200	0.176	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG
Aroclor-1248 [1]	<0.167	0.200	0.167	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG
Aroclor-1254 [1]	<0.188	0.200	0.188	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG
Aroclor-1260 [1]	<0.164	0.200	0.164	µg/L	1		608.3	1/26/22	1/31/22 18:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.7	30-150		1/31/22 18:39
Decachlorobiphenyl [2]	75.8	30-150		1/31/22 18:39
Tetrachloro-m-xylene [1]	73.0	30-150		1/31/22 18:39
Tetrachloro-m-xylene [2]	69.5	30-150		1/31/22 18:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-07-MW-1- FF

Sample ID: 22A1116-10 Start Date/Time: 1/19/2022 8:50:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 9:32:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/26/22	1/31/22 18:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.9	30-150		1/31/22 18:57
Decachlorobiphenyl [2]	81.9	30-150		1/31/22 18:57
Tetrachloro-m-xylene [1]	74.7	30-150		1/31/22 18:57
Tetrachloro-m-xylene [2]	71.9	30-150		1/31/22 18:57

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-18S

Sample ID: 22A1116-11 Start Date/Time: 1/19/2022 10:30:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 11:00:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.191	0.215	0.191	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG
Aroclor-1221 [1]	<0.177	0.215	0.177	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG
Aroclor-1232 [1]	<0.181	0.215	0.181	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG
Aroclor-1242 [1]	<0.189	0.215	0.189	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG
Aroclor-1248 [1]	<0.180	0.215	0.180	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG
Aroclor-1254 [1]	<0.202	0.215	0.202	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG
Aroclor-1260 [1]	<0.176	0.215	0.176	µg/L	1		608.3	1/26/22	1/31/22 19:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		1/31/22 19:15
Decachlorobiphenyl [2]	82.2	30-150		1/31/22 19:15
Tetrachloro-m-xylene [1]	75.2	30-150		1/31/22 19:15
Tetrachloro-m-xylene [2]	72.1	30-150		1/31/22 19:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-18S- FF

Sample ID: 22A1116-12 Start Date/Time: 1/19/2022 10:30:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 11:00:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.185	0.208	0.185	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG
Aroclor-1221 [1]	<0.172	0.208	0.172	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG
Aroclor-1232 [1]	<0.175	0.208	0.175	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG
Aroclor-1242 [1]	<0.183	0.208	0.183	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG
Aroclor-1248 [1]	<0.174	0.208	0.174	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG
Aroclor-1254 [1]	<0.196	0.208	0.196	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG
Aroclor-1260 [1]	<0.171	0.208	0.171	µg/L	1		608.3	1/26/22	1/31/22 19:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.3	30-150		1/31/22 19:33
Decachlorobiphenyl [2]	83.5	30-150		1/31/22 19:33
Tetrachloro-m-xylene [1]	75.9	30-150		1/31/22 19:33
Tetrachloro-m-xylene [2]	73.3	30-150		1/31/22 19:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-18I

Sample ID: 22A1116-13 Start Date/Time: 1/19/2022 11:43:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 12:34:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.189	0.213	0.189	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG
Aroclor-1221 [1]	<0.176	0.213	0.176	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG
Aroclor-1232 [1]	<0.179	0.213	0.179	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG
Aroclor-1242 [1]	<0.187	0.213	0.187	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG
Aroclor-1248 [1]	<0.178	0.213	0.178	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG
Aroclor-1254 [1]	<0.200	0.213	0.200	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG
Aroclor-1260 [1]	<0.174	0.213	0.174	µg/L	1		608.3	1/26/22	1/31/22 19:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		1/31/22 19:51
Decachlorobiphenyl [2]	81.2	30-150		1/31/22 19:51
Tetrachloro-m-xylene [1]	71.5	30-150		1/31/22 19:51
Tetrachloro-m-xylene [2]	68.9	30-150		1/31/22 19:51

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-18I- FF

Sample ID: 22A1116-14 Start Date/Time: 1/19/2022 11:43:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 12:34:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/26/22	1/31/22 20:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.1	30-150		1/31/22 20:09
Decachlorobiphenyl [2]	84.1	30-150		1/31/22 20:09
Tetrachloro-m-xylene [1]	79.0	30-150		1/31/22 20:09
Tetrachloro-m-xylene [2]	75.9	30-150		1/31/22 20:09

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-PZ-05

Sample ID: 22A1116-15 Start Date/Time: 1/19/2022 2:03:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 2:35:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.171	0.192	0.171	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG
Aroclor-1221 [1]	<0.159	0.192	0.159	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG
Aroclor-1232 [1]	<0.162	0.192	0.162	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG
Aroclor-1242 [1]	<0.169	0.192	0.169	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG
Aroclor-1248 [1]	<0.161	0.192	0.161	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG
Aroclor-1254 [1]	<0.181	0.192	0.181	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG
Aroclor-1260 [1]	<0.158	0.192	0.158	µg/L	1		608.3	1/26/22	1/31/22 23:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		1/31/22 23:11
Decachlorobiphenyl [2]	83.0	30-150		1/31/22 23:11
Tetrachloro-m-xylene [1]	74.7	30-150		1/31/22 23:11
Tetrachloro-m-xylene [2]	71.8	30-150		1/31/22 23:11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-PZ-05- FF

Sample ID: 22A1116-16 Start Date/Time: 1/19/2022 2:03:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 2:35:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/26/22	1/31/22 23:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		1/31/22 23:29
Decachlorobiphenyl [2]	79.2	30-150		1/31/22 23:29
Tetrachloro-m-xylene [1]	76.3	30-150		1/31/22 23:29
Tetrachloro-m-xylene [2]	72.7	30-150		1/31/22 23:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-02-MW-03I

Sample ID: 22A1116-17 Start Date/Time: 1/14/2022 11:40:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 12:30:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/21/22	1/28/22 5:23	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.0	30-150		1/28/22 5:23
Decachlorobiphenyl [2]	72.8	30-150		1/28/22 5:23
Tetrachloro-m-xylene [1]	61.2	30-150		1/28/22 5:23
Tetrachloro-m-xylene [2]	59.5	30-150		1/28/22 5:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-02-MW-03I- FF

Sample ID: 22A1116-18 Start Date/Time: 1/14/2022 11:40:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 12:30:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/21/22	1/28/22 5:41	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		1/28/22 5:41
Decachlorobiphenyl [2]	69.8	30-150		1/28/22 5:41
Tetrachloro-m-xylene [1]	56.2	30-150		1/28/22 5:41
Tetrachloro-m-xylene [2]	55.0	30-150		1/28/22 5:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-09-PZ-01

Sample ID: 22A1116-19 Start Date/Time: 1/14/2022 1:34:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 1:59:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/21/22	1/28/22 5:59	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		1/28/22 5:59
Decachlorobiphenyl [2]	71.6	30-150		1/28/22 5:59
Tetrachloro-m-xylene [1]	64.0	30-150		1/28/22 5:59
Tetrachloro-m-xylene [2]	61.7	30-150		1/28/22 5:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-09-PZ-01- FF

Sample ID: 22A1116-20 Start Date/Time: 1/14/2022 1:34:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/14/2022 1:59:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/21/22	1/28/22 6:17	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		1/28/22 6:17
Decachlorobiphenyl [2]	81.4	30-150		1/28/22 6:17
Tetrachloro-m-xylene [1]	70.4	30-150		1/28/22 6:17
Tetrachloro-m-xylene [2]	67.6	30-150		1/28/22 6:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-11-MW-C

Sample ID: 22A1116-21 Start Date/Time: 1/19/2022 3:19:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 3:59:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/26/22	1/31/22 23:47	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		1/31/22 23:47
Decachlorobiphenyl [2]	81.5	30-150		1/31/22 23:47
Tetrachloro-m-xylene [1]	76.9	30-150		1/31/22 23:47
Tetrachloro-m-xylene [2]	74.4	30-150		1/31/22 23:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-11-MW-C- FF

Sample ID: 22A1116-22 Start Date/Time: 1/19/2022 3:19:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 3:59:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.179	0.201	0.179	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG
Aroclor-1221 [1]	<0.166	0.201	0.166	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG
Aroclor-1232 [1]	<0.169	0.201	0.169	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG
Aroclor-1242 [1]	<0.177	0.201	0.177	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG
Aroclor-1248 [1]	<0.168	0.201	0.168	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG
Aroclor-1254 [1]	<0.189	0.201	0.189	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG
Aroclor-1260 [1]	<0.165	0.201	0.165	µg/L	1		608.3	1/26/22	2/1/22 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	93.1	30-150		2/1/22 0:05	
Decachlorobiphenyl [2]	81.1	30-150		2/1/22 0:05	
Tetrachloro-m-xylene [1]	75.9	30-150		2/1/22 0:05	
Tetrachloro-m-xylene [2]	72.5	30-150		2/1/22 0:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-10-MW-08S

Sample ID: 22A1116-23 Start Date/Time: 1/19/2022 12:56:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 1:36:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/26/22	2/1/22 0:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		2/1/22 0:23
Decachlorobiphenyl [2]	67.8	30-150		2/1/22 0:23
Tetrachloro-m-xylene [1]	64.5	30-150		2/1/22 0:23
Tetrachloro-m-xylene [2]	61.5	30-150		2/1/22 0:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-10-MW-08S- FF

Sample ID: 22A1116-24 Start Date/Time: 1/19/2022 12:56:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 1:36:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/26/22	2/1/22 0:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.0	30-150		2/1/22 0:41
Decachlorobiphenyl [2]	76.0	30-150		2/1/22 0:41
Tetrachloro-m-xylene [1]	68.8	30-150		2/1/22 0:41
Tetrachloro-m-xylene [2]	66.1	30-150		2/1/22 0:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-10-MW-08I

Sample ID: 22A1116-25 Start Date/Time: 1/19/2022 11:16:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 12:01:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.178	0.200	0.178	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG
Aroclor-1221 [1]	<0.165	0.200	0.165	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG
Aroclor-1232 [1]	<0.168	0.200	0.168	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG
Aroclor-1242 [1]	<0.176	0.200	0.176	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG
Aroclor-1248 [1]	<0.167	0.200	0.167	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG
Aroclor-1254 [1]	<0.188	0.200	0.188	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG
Aroclor-1260 [1]	<0.164	0.200	0.164	µg/L	1		608.3	1/26/22	2/1/22 0:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	94.0	30-150		2/1/22 0:59	
Decachlorobiphenyl [2]	82.6	30-150		2/1/22 0:59	
Tetrachloro-m-xylene [1]	70.8	30-150		2/1/22 0:59	
Tetrachloro-m-xylene [2]	68.6	30-150		2/1/22 0:59	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-10-MW-08I- FF

Sample ID: 22A1116-26 Start Date/Time: 1/19/2022 11:16:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 12:01:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/26/22	2/1/22 1:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	77.0	30-150		2/1/22	1:17
Decachlorobiphenyl [2]	68.2	30-150		2/1/22	1:17
Tetrachloro-m-xylene [1]	56.8	30-150		2/1/22	1:17
Tetrachloro-m-xylene [2]	55.5	30-150		2/1/22	1:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-10-PZ-04

Sample ID: 22A1116-27 Start Date/Time: 1/19/2022 9:18:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 9:53:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/26/22	2/1/22 1:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.2	30-150		2/1/22 1:34
Decachlorobiphenyl [2]	69.2	30-150		2/1/22 1:34
Tetrachloro-m-xylene [1]	59.5	30-150		2/1/22 1:34
Tetrachloro-m-xylene [2]	59.5	30-150		2/1/22 1:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-10-PZ-04- FF

Sample ID: 22A1116-28 Start Date/Time: 1/19/2022 9:18:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 9:53:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.175	0.196	0.175	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG
Aroclor-1221 [1]	<0.162	0.196	0.162	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG
Aroclor-1232 [1]	<0.165	0.196	0.165	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG
Aroclor-1242 [1]	<0.173	0.196	0.173	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG
Aroclor-1248 [1]	<0.164	0.196	0.164	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG
Aroclor-1254 [1]	<0.184	0.196	0.184	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG
Aroclor-1260 [1]	<0.161	0.196	0.161	µg/L	1		608.3	1/26/22	2/1/22 1:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		2/1/22 1:52
Decachlorobiphenyl [2]	69.0	30-150		2/1/22 1:52
Tetrachloro-m-xylene [1]	60.2	30-150		2/1/22 1:52
Tetrachloro-m-xylene [2]	58.3	30-150		2/1/22 1:52

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS HW3a-ICP-AES Rev 1.1); USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22A1219
SAMPLING DATE(S):	January 19-20, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB
AOC-09-PZ-02	22A1219-01	X
AOC-09-PZ-02-FF	22A1219-02	X
AOC-09-PZ-03	22A1219-03	X
AOC-09-PZ-03-FF	22A1219-04	X
AOC-10-MW-16	22A1219-05	X
AOC-10-MW-16-FF	22A1219-06	X
AOC-13-MW-18S	22A1219-07	X
AOC-13-MW-18S-FF	22A1219-08	X
AOC-13-MW-19I	22A1219-09	X
AOC-13-MW-19I-FF	22A1219-10	X
AOC-02-MW-03D	22A1219-11	X
AOC-02-MW-03D-FF	22A1219-12	X
AOC-13-MW-02S	22A1219-13	X
AOC-13-MW-02S-FF	22A1219-14	X
AOC-13-MW-02D	22A1219-15	X
AOC-13-MW-02D-FF	22A1219-16	X
AOC-13-MW-02I	22A1219-17	X

Client Sample ID	Laboratory ID	PCB
AOC-13-MW-02I-FF	22A1219-18	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A1219

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data were not submitted for this SDG. Data qualification based on the absence of MS/MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

The laboratory noted that the sample profile or fingerprint for AOC-13-MW-02S didn't match the standard exactly and that the sample was quantitated against the closest matching standard. Citing the uncertainty noted by the lab and professional judgment, the validator has qualified the positive Aroclor 1242 result for this sample as a tentative identification (N).

All other TCL Compound Identification criteria were met, so no further data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-09-PZ-02

Sample ID: 22A1219-01 Start Date/Time: 1/20/2022 9:30:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 9:58:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG
Aroclor-1248 [2]	0.336	0.211	0.175	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/27/22	2/3/22 15:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		2/3/22 15:31
Decachlorobiphenyl [2]	68.4	30-150		2/3/22 15:31
Tetrachloro-m-xylene [1]	62.3	30-150		2/3/22 15:31
Tetrachloro-m-xylene [2]	54.7	30-150		2/3/22 15:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-09-PZ-02 - FF

Sample ID: 22A1219-02 Start Date/Time: 1/20/2022 9:30:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 9:58:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/27/22	2/3/22 15:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.8	30-150		2/3/22 15:43
Decachlorobiphenyl [2]	59.2	30-150		2/3/22 15:43
Tetrachloro-m-xylene [1]	53.6	30-150		2/3/22 15:43
Tetrachloro-m-xylene [2]	46.2	30-150		2/3/22 15:43

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-09-PZ-03

Sample ID: 22A1219-03 Start Date/Time: 1/20/2022 10:53:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 11:20:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.189	0.213	0.189	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG
Aroclor-1221 [1]	<0.176	0.213	0.176	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG
Aroclor-1232 [1]	<0.179	0.213	0.179	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG
Aroclor-1242 [1]	<0.187	0.213	0.187	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG
Aroclor-1248 [1]	<0.178	0.213	0.178	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG
Aroclor-1254 [1]	<0.200	0.213	0.200	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG
Aroclor-1260 [1]	<0.174	0.213	0.174	µg/L	1		608.3	1/27/22	2/3/22 15:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.8	30-150		2/3/22 15:56
Decachlorobiphenyl [2]	67.1	30-150		2/3/22 15:56
Tetrachloro-m-xylene [1]	61.0	30-150		2/3/22 15:56
Tetrachloro-m-xylene [2]	53.2	30-150		2/3/22 15:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-09-PZ-03 - FF

Sample ID: 22A1219-04 Start Date/Time: 1/20/2022 10:53:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 11:20:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.193	0.217	0.193	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG
Aroclor-1221 [1]	<0.179	0.217	0.179	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG
Aroclor-1232 [1]	<0.183	0.217	0.183	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG
Aroclor-1242 [1]	<0.191	0.217	0.191	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG
Aroclor-1248 [1]	<0.182	0.217	0.182	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG
Aroclor-1254 [1]	<0.204	0.217	0.204	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG
Aroclor-1260 [1]	<0.178	0.217	0.178	µg/L	1		608.3	1/27/22	2/3/22 16:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		2/3/22 16:08
Decachlorobiphenyl [2]	70.6	30-150		2/3/22 16:08
Tetrachloro-m-xylene [1]	62.7	30-150		2/3/22 16:08
Tetrachloro-m-xylene [2]	54.8	30-150		2/3/22 16:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-10-MW-16

Sample ID: 22A1219-05 Start Date/Time: 1/20/2022 12:20:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 12:56:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/27/22	2/3/22 16:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.1	30-150		2/3/22 16:21
Decachlorobiphenyl [2]	50.5	30-150		2/3/22 16:21
Tetrachloro-m-xylene [1]	58.2	30-150		2/3/22 16:21
Tetrachloro-m-xylene [2]	50.0	30-150		2/3/22 16:21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-10-MW-16 - FF

Sample ID: 22A1219-06 Start Date/Time: 1/20/2022 12:20:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 12:56:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/27/22	2/3/22 16:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		2/3/22 16:33
Decachlorobiphenyl [2]	60.8	30-150		2/3/22 16:33
Tetrachloro-m-xylene [1]	74.5	30-150		2/3/22 16:33
Tetrachloro-m-xylene [2]	64.0	30-150		2/3/22 16:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-18S

Sample ID: 22A1219-07 Start Date/Time: 1/20/2022 2:05:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 2:46:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG
Aroclor-1248 [2]	1.87	0.194	0.161	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/27/22	2/3/22 16:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.9	30-150		2/3/22 16:45
Decachlorobiphenyl [2]	58.1	30-150		2/3/22 16:45
Tetrachloro-m-xylene [1]	61.5	30-150		2/3/22 16:45
Tetrachloro-m-xylene [2]	52.7	30-150		2/3/22 16:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-18S - FF

Sample ID: 22A1219-08 Start Date/Time: 1/20/2022 2:05:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 2:46:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/27/22	2/3/22 16:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.4	30-150		2/3/22 16:58
Decachlorobiphenyl [2]	48.0	30-150		2/3/22 16:58
Tetrachloro-m-xylene [1]	66.0	30-150		2/3/22 16:58
Tetrachloro-m-xylene [2]	55.9	30-150		2/3/22 16:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-19I

Sample ID: 22A1219-09 Start Date/Time: 1/20/2022 3:16:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 3:58:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/27/22	2/3/22 17:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		2/3/22 17:10
Decachlorobiphenyl [2]	85.3	30-150		2/3/22 17:10
Tetrachloro-m-xylene [1]	79.7	30-150		2/3/22 17:10
Tetrachloro-m-xylene [2]	65.9	30-150		2/3/22 17:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-19I - FF

Sample ID: 22A1219-10 Start Date/Time: 1/20/2022 3:16:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 3:58:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/27/22	2/3/22 17:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		2/3/22 17:23
Decachlorobiphenyl [2]	79.9	30-150		2/3/22 17:23
Tetrachloro-m-xylene [1]	72.6	30-150		2/3/22 17:23
Tetrachloro-m-xylene [2]	62.0	30-150		2/3/22 17:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-02-MW-03D

Sample ID: 22A1219-11 Start Date/Time: 1/20/2022 10:16:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 3:15:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/27/22	2/3/22 18:35	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.4	30-150		2/3/22 18:35
Decachlorobiphenyl [2]	89.5	30-150		2/3/22 18:35
Tetrachloro-m-xylene [1]	72.9	30-150		2/3/22 18:35
Tetrachloro-m-xylene [2]	62.1	30-150		2/3/22 18:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-02-MW-03D - FF

Sample ID: 22A1219-12 Start Date/Time: 1/20/2022 10:16:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 3:15:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG
Aroclor-1260 [2]	<0.168	0.204	0.168	µg/L	1		608.3	1/27/22	2/3/22 18:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.4	30-150		2/3/22 18:48
Decachlorobiphenyl [2]	88.0	30-150		2/3/22 18:48
Tetrachloro-m-xylene [1]	73.3	30-150		2/3/22 18:48
Tetrachloro-m-xylene [2]	62.3	30-150		2/3/22 18:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02S

Sample ID: 22A1219-13 Start Date/Time: 1/20/2022 9:41:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 10:26:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<3.75	4.21	3.75	µg/L	20		608.3	1/27/22	2/4/22 11:10	TG
Aroclor-1221 [1]	<3.47	4.21	3.47	µg/L	20		608.3	1/27/22	2/4/22 11:10	TG
Aroclor-1232 [1]	<3.54	4.21	3.54	µg/L	20		608.3	1/27/22	2/4/22 11:10	TG
Aroclor-1242 [2]	23.8 N	4.21	3.54	µg/L	20	O-04	608.3	1/27/22	2/4/22 11:10	TG
Aroclor-1248 [1]	<3.52	4.21	3.52	µg/L	20		608.3	1/27/22	2/4/22 11:10	TG
Aroclor-1254 [1]	<3.96	4.21	3.96	µg/L	20		608.3	1/27/22	2/4/22 11:10	TG
Aroclor-1260 [1]	<3.45	4.21	3.45	µg/L	20		608.3	1/27/22	2/4/22 11:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		2/4/22 11:10
Decachlorobiphenyl [2]	70.7	30-150		2/4/22 11:10
Tetrachloro-m-xylene [1]	91.0	30-150		2/4/22 11:10
Tetrachloro-m-xylene [2]	75.5	30-150		2/4/22 11:10

ALH 3/9/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02S - FF

Sample ID: 22A1219-14 Start Date/Time: 1/20/2022 9:41:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 10:26:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/27/22	2/3/22 19:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.0	30-150		2/3/22 19:13
Decachlorobiphenyl [2]	78.5	30-150		2/3/22 19:13
Tetrachloro-m-xylene [1]	64.7	30-150		2/3/22 19:13
Tetrachloro-m-xylene [2]	56.0	30-150		2/3/22 19:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02D

Sample ID: 22A1219-15 Start Date/Time: 1/20/2022 12:40:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 1:40:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/27/22	2/3/22 19:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	47.6	30-150		2/3/22 19:25
Decachlorobiphenyl [2]	44.8	30-150		2/3/22 19:25
Tetrachloro-m-xylene [1]	72.4	30-150		2/3/22 19:25
Tetrachloro-m-xylene [2]	61.9	30-150		2/3/22 19:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02D - FF

Sample ID: 22A1219-16 Start Date/Time: 1/20/2022 12:40:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 1:40:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/27/22	2/3/22 19:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.1	30-150		2/3/22 19:38
Decachlorobiphenyl [2]	39.1	30-150		2/3/22 19:38
Tetrachloro-m-xylene [1]	71.8	30-150		2/3/22 19:38
Tetrachloro-m-xylene [2]	61.8	30-150		2/3/22 19:38

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02I

Sample ID: 22A1219-17 Start Date/Time: 1/20/2022 11:11:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 11:41:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.178	0.200	0.178	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG
Aroclor-1221 [1]	<0.165	0.200	0.165	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG
Aroclor-1232 [1]	<0.168	0.200	0.168	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG
Aroclor-1242 [1]	<0.176	0.200	0.176	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG
Aroclor-1248 [2]	1.09	0.200	0.166	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG
Aroclor-1254 [1]	<0.188	0.200	0.188	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG
Aroclor-1260 [1]	<0.164	0.200	0.164	µg/L	1		608.3	1/27/22	2/3/22 19:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.2	30-150		2/3/22 19:50
Decachlorobiphenyl [2]	58.3	30-150		2/3/22 19:50
Tetrachloro-m-xylene [1]	39.2	30-150		2/3/22 19:50
Tetrachloro-m-xylene [2]	32.2	30-150		2/3/22 19:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02I - FF

Sample ID: 22A1219-18 Start Date/Time: 1/20/2022 11:11:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 11:41:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/27/22	2/3/22 20:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.4	30-150		2/3/22 20:02
Decachlorobiphenyl [2]	86.2	30-150		2/3/22 20:02
Tetrachloro-m-xylene [1]	64.3	30-150		2/3/22 20:02
Tetrachloro-m-xylene [2]	55.2	30-150		2/3/22 20:02

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS HW3a-ICP-AES Rev 1.1); USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22A1539
SAMPLING DATE(S):	January 21, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB
AOC-02-MW-011	22A1539-1	X
AOC-02-MW-011-FF	22A1539-2	X
AOC-14-MW-21S	22A1539-3	X
AOC-14-MW-21S-FF	22A1539-4	X
AOC-14-MW-21I	22A1539-5	X
AOC-14-MW-21I-FF	22A1539-6	X
MW-F	22A1539-7	X
MW-F-FF	22A1539-8	X
AOC-13-MW-20S	22A1539-9	X
AOC-13-MW-20S-FF	22A1539-10	X
AOC-13-MW-20I	22A1539-11	X
AOC-13-MW-20I-FF	22A1539-12	X
AOC-12-MW-09S	22A1539-13	X
AOC-12-MW-09S-FF	22A1539-14	X
AOC-12-MW-09I	22A1539-15	X
AOC-12-MW-09I-FF	22A1539-16	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22A1539

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data were not submitted for this SDG. Data qualification based on the absence of MS/MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-02-MW-01I Sampled: 1/21/2022 10:05

Sample ID: 22A1539-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/28/22	2/8/22 13:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		2/8/22 13:11
Decachlorobiphenyl [2]	95.6	30-150		2/8/22 13:11
Tetrachloro-m-xylene [1]	74.6	30-150		2/8/22 13:11
Tetrachloro-m-xylene [2]	74.6	30-150		2/8/22 13:11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-02-MW-01I-FF Sampled: 1/21/2022 10:05

Sample ID: 22A1539-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.183	0.205	0.183	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG
Aroclor-1221 [1]	<0.169	0.205	0.169	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG
Aroclor-1232 [1]	<0.172	0.205	0.172	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG
Aroclor-1242 [1]	<0.181	0.205	0.181	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG
Aroclor-1248 [1]	<0.171	0.205	0.171	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG
Aroclor-1254 [1]	<0.193	0.205	0.193	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG
Aroclor-1260 [1]	<0.168	0.205	0.168	µg/L	1		608.3	1/28/22	2/8/22 13:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.4	30-150		2/8/22 13:23
Decachlorobiphenyl [2]	86.5	30-150		2/8/22 13:23
Tetrachloro-m-xylene [1]	61.5	30-150		2/8/22 13:23
Tetrachloro-m-xylene [2]	61.7	30-150		2/8/22 13:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-14-MW-21S Sampled: 1/21/2022 11:14

Sample ID: 22A1539-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.207	0.233	0.207	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG
Aroclor-1221 [1]	<0.192	0.233	0.192	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG
Aroclor-1232 [1]	<0.195	0.233	0.195	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG
Aroclor-1242 [1]	<0.205	0.233	0.205	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG
Aroclor-1248 [1]	<0.194	0.233	0.194	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG
Aroclor-1254 [1]	<0.219	0.233	0.219	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG
Aroclor-1260 [1]	<0.191	0.233	0.191	µg/L	1		608.3	1/28/22	2/8/22 13:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		2/8/22 13:36
Decachlorobiphenyl [2]	79.6	30-150		2/8/22 13:36
Tetrachloro-m-xylene [1]	59.1	30-150		2/8/22 13:36
Tetrachloro-m-xylene [2]	59.1	30-150		2/8/22 13:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-14-MW-21S-FF Sampled: 1/21/2022 11:14

Sample ID: 22A1539-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.174	0.195	0.174	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG
Aroclor-1221 [1]	<0.161	0.195	0.161	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG
Aroclor-1232 [1]	<0.164	0.195	0.164	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG
Aroclor-1242 [1]	<0.172	0.195	0.172	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG
Aroclor-1248 [1]	<0.163	0.195	0.163	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG
Aroclor-1254 [1]	<0.183	0.195	0.183	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG
Aroclor-1260 [1]	<0.160	0.195	0.160	µg/L	1		608.3	1/28/22	2/8/22 13:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		2/8/22 13:49
Decachlorobiphenyl [2]	83.0	30-150		2/8/22 13:49
Tetrachloro-m-xylene [1]	65.5	30-150		2/8/22 13:49
Tetrachloro-m-xylene [2]	65.6	30-150		2/8/22 13:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-14-MW-21I Sampled: 1/21/2022 11:56

Sample ID: 22A1539-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.170	0.191	0.170	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG
Aroclor-1221 [1]	<0.158	0.191	0.158	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG
Aroclor-1232 [1]	<0.161	0.191	0.161	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG
Aroclor-1242 [1]	<0.168	0.191	0.168	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG
Aroclor-1248 [1]	<0.160	0.191	0.160	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG
Aroclor-1254 [1]	<0.180	0.191	0.180	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG
Aroclor-1260 [1]	<0.157	0.191	0.157	µg/L	1		608.3	1/28/22	2/8/22 14:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.9	30-150		2/8/22 14:02
Decachlorobiphenyl [2]	82.9	30-150		2/8/22 14:02
Tetrachloro-m-xylene [1]	63.2	30-150		2/8/22 14:02
Tetrachloro-m-xylene [2]	63.0	30-150		2/8/22 14:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-14-MW-21I-FF Sampled: 1/21/2022 11:56

Sample ID: 22A1539-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.207	0.233	0.207	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG
Aroclor-1221 [1]	<0.192	0.233	0.192	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG
Aroclor-1232 [1]	<0.195	0.233	0.195	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG
Aroclor-1242 [1]	<0.205	0.233	0.205	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG
Aroclor-1248 [1]	<0.194	0.233	0.194	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG
Aroclor-1254 [1]	<0.219	0.233	0.219	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG
Aroclor-1260 [1]	<0.191	0.233	0.191	µg/L	1		608.3	1/28/22	2/8/22 14:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		2/8/22 14:14
Decachlorobiphenyl [2]	74.8	30-150		2/8/22 14:14
Tetrachloro-m-xylene [1]	55.1	30-150		2/8/22 14:14
Tetrachloro-m-xylene [2]	54.6	30-150		2/8/22 14:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: MW-F Sampled: 1/21/2022 09:57

Sample ID: 22A1539-07

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.187	0.211	0.187	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG
Aroclor-1221 [1]	<0.174	0.211	0.174	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG
Aroclor-1232 [1]	<0.177	0.211	0.177	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG
Aroclor-1242 [1]	<0.185	0.211	0.185	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG
Aroclor-1248 [1]	<0.176	0.211	0.176	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG
Aroclor-1254 [1]	<0.198	0.211	0.198	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG
Aroclor-1260 [1]	<0.173	0.211	0.173	µg/L	1		608.3	1/28/22	2/8/22 14:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		2/8/22 14:27
Decachlorobiphenyl [2]	77.1	30-150		2/8/22 14:27
Tetrachloro-m-xylene [1]	60.3	30-150		2/8/22 14:27
Tetrachloro-m-xylene [2]	59.7	30-150		2/8/22 14:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: MW-F-FF Sampled: 1/21/2022 09:57

Sample ID: 22A1539-08

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.198	0.222	0.198	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG
Aroclor-1221 [1]	<0.183	0.222	0.183	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG
Aroclor-1232 [1]	<0.187	0.222	0.187	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG
Aroclor-1242 [1]	<0.196	0.222	0.196	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG
Aroclor-1248 [1]	<0.186	0.222	0.186	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG
Aroclor-1254 [1]	<0.209	0.222	0.209	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG
Aroclor-1260 [1]	<0.182	0.222	0.182	µg/L	1		608.3	1/28/22	2/8/22 14:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.0	30-150		2/8/22 14:39
Decachlorobiphenyl [2]	77.9	30-150		2/8/22 14:39
Tetrachloro-m-xylene [1]	61.6	30-150		2/8/22 14:39
Tetrachloro-m-xylene [2]	61.0	30-150		2/8/22 14:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-13-MW-20S Sampled: 1/21/2022 13:47

Sample ID: 22A1539-09

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.174	0.195	0.174	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG
Aroclor-1221 [1]	<0.161	0.195	0.161	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG
Aroclor-1232 [1]	<0.164	0.195	0.164	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG
Aroclor-1242 [1]	<0.172	0.195	0.172	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG
Aroclor-1248 [1]	<0.163	0.195	0.163	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG
Aroclor-1254 [1]	<0.183	0.195	0.183	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG
Aroclor-1260 [1]	<0.160	0.195	0.160	µg/L	1		608.3	1/28/22	2/8/22 14:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		2/8/22 14:52
Decachlorobiphenyl [2]	69.7	30-150		2/8/22 14:52
Tetrachloro-m-xylene [1]	57.2	30-150		2/8/22 14:52
Tetrachloro-m-xylene [2]	56.1	30-150		2/8/22 14:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-13-MW-20S-FF Sampled: 1/21/2022 13:47

Sample ID: 22A1539-10

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/28/22	2/8/22 15:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		2/8/22 15:04
Decachlorobiphenyl [2]	88.4	30-150		2/8/22 15:04
Tetrachloro-m-xylene [1]	70.7	30-150		2/8/22 15:04
Tetrachloro-m-xylene [2]	69.8	30-150		2/8/22 15:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-13-MW-20I Sampled: 1/21/2022 14:41

Sample ID: 22A1539-11

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/28/22	2/8/22 15:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		2/8/22 15:59
Decachlorobiphenyl [2]	82.5	30-150		2/8/22 15:59
Tetrachloro-m-xylene [1]	74.0	30-150		2/8/22 15:59
Tetrachloro-m-xylene [2]	73.2	30-150		2/8/22 15:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-13-MW-20I-FF Sampled: 1/21/2022 14:41

Sample ID: 22A1539-12

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.184	0.206	0.184	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG
Aroclor-1221 [1]	<0.170	0.206	0.170	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG
Aroclor-1232 [1]	<0.173	0.206	0.173	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG
Aroclor-1242 [1]	<0.181	0.206	0.181	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG
Aroclor-1248 [1]	<0.172	0.206	0.172	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG
Aroclor-1254 [1]	<0.194	0.206	0.194	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG
Aroclor-1260 [1]	<0.169	0.206	0.169	µg/L	1		608.3	1/28/22	2/8/22 16:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.7	30-150		2/8/22 16:12
Decachlorobiphenyl [2]	94.2	30-150		2/8/22 16:12
Tetrachloro-m-xylene [1]	74.8	30-150		2/8/22 16:12
Tetrachloro-m-xylene [2]	74.4	30-150		2/8/22 16:12

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-12-MW-09S Sampled: 1/21/2022 11:30

Sample ID: 22A1539-13

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/28/22	2/8/22 16:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.3	30-150		2/8/22 16:24
Decachlorobiphenyl [2]	89.7	30-150		2/8/22 16:24
Tetrachloro-m-xylene [1]	73.2	30-150		2/8/22 16:24
Tetrachloro-m-xylene [2]	72.9	30-150		2/8/22 16:24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-12-MW-09S-FF Sampled: 1/21/2022 11:30

Sample ID: 22A1539-14

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.182	0.204	0.182	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG
Aroclor-1221 [1]	<0.168	0.204	0.168	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG
Aroclor-1232 [1]	<0.171	0.204	0.171	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG
Aroclor-1242 [1]	<0.180	0.204	0.180	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG
Aroclor-1248 [1]	<0.170	0.204	0.170	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG
Aroclor-1254 [1]	<0.192	0.204	0.192	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG
Aroclor-1260 [1]	<0.167	0.204	0.167	µg/L	1		608.3	1/28/22	2/8/22 16:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		2/8/22 16:37
Decachlorobiphenyl [2]	89.6	30-150		2/8/22 16:37
Tetrachloro-m-xylene [1]	73.5	30-150		2/8/22 16:37
Tetrachloro-m-xylene [2]	73.4	30-150		2/8/22 16:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-12-MW-09I Sampled: 1/21/2022 12:51

Sample ID: 22A1539-15

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/28/22	2/8/22 16:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.3	30-150		2/8/22 16:49
Decachlorobiphenyl [2]	91.6	30-150		2/8/22 16:49
Tetrachloro-m-xylene [1]	74.8	30-150		2/8/22 16:49
Tetrachloro-m-xylene [2]	75.1	30-150		2/8/22 16:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: AOC-12-MW-09I-FF Sampled: 1/21/2022 12:51

Sample ID: 22A1539-16

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.180	0.202	0.180	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG
Aroclor-1221 [1]	<0.167	0.202	0.167	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG
Aroclor-1232 [1]	<0.170	0.202	0.170	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG
Aroclor-1242 [1]	<0.178	0.202	0.178	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG
Aroclor-1248 [1]	<0.169	0.202	0.169	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG
Aroclor-1254 [1]	<0.190	0.202	0.190	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG
Aroclor-1260 [1]	<0.166	0.202	0.166	µg/L	1		608.3	1/28/22	2/8/22 17:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		2/8/22 17:01
Decachlorobiphenyl [2]	97.6	30-150		2/8/22 17:01
Tetrachloro-m-xylene [1]	74.6	30-150		2/8/22 17:01
Tetrachloro-m-xylene [2]	74.0	30-150		2/8/22 17:01

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	con-test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOPs (SVOC HW-22 Rev.5, PCB HW-37a Rev. 0, METALS HW3a-ICP-AES Rev 1.1); USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* **2008**; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* **2010**; Professional Judgment
SAMPLE MATRIX:	Concrete
TYPES OF ANALYSES:	Polychlorinated Biphenyls (PCBs)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22B0195
SAMPLING DATE(S):	January 24, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCB
CC-28-21	22B0195-01	X
CC-29-21	22B0195-02	X
CC-30-21	22B0195-03	X
CC-27-21	22B0195-04	X
CC-26-21	22B0195-05	X
CC-25-21	22B0195-06	X
CC-24-21	22B0195-07	X
CC-23-21	22B0195-08	X
CC-32-21	22B0195-09	X
CC-31-21	22B0195-10	X
CC-33-221	22B0195-11	X
FD-20220124-1	22B0195-12	X
CC-34-21	22B0195-13	X
CC-34-21MS	22B0195-13MS	X
33-34-21MSD	22B0195-13MSD	X
CC-41-21	22B0195-14	X
CC-36-21	22B0195-15	X

Client Sample ID	Laboratory ID	PCB
CC-35-21	22B0195-16	X
CC-37-21	22B0195-17	X
CC-38-21	22B0195-18	X
CC-39-21	22B0195-19	X
CC-40-21	22B0195-20	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22B0195

POLYCHLORINATED BIPHENYLS (PCB)

SUMMARY

I.) General:

The analyses for Polychlorinated Biphenyls (PCB) were performed per EPA Method 608.3.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blank. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG sample CC-34-21. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (CC-32-21 / FD-20220124-1) was identified as part of this SDG. The calculable Relative Percent Differences (RPDs) were 17% for Aroclor 1248 and 1.4% for Aroclor 1254, which were within the QC limits. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-28-21 Sampled: 1/24/2022 10:50

Sample ID: 22B0195-01

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1221 [1]	ND	0.094	0.052	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1232 [1]	ND	0.094	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1242 [1]	ND	0.094	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1248 [1]	1.7	0.094	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1254 [1]	1.2	0.094	0.029	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1260 [1]	ND	0.094	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1262 [1]	ND	0.094	0.032	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM
Aroclor-1268 [1]	ND	0.094	0.040	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 17:57	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		2/11/22 17:57
Decachlorobiphenyl [2]	73.0	30-150		2/11/22 17:57
Tetrachloro-m-xylene [1]	73.5	30-150		2/11/22 17:57
Tetrachloro-m-xylene [2]	73.4	30-150		2/11/22 17:57

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-29-21 Sampled: 1/24/2022 10:55

Sample ID: 22B0195-02

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1221 [1]	ND	0.50	0.27	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1232 [1]	ND	0.50	0.19	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1242 [1]	ND	0.50	0.19	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1248 [2]	1.6	0.50	0.16	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1254 [2]	6.2	0.50	0.16	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1260 [1]	ND	0.50	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1262 [1]	ND	0.50	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB
Aroclor-1268 [1]	ND	0.50	0.21	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 11:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		2/12/22 11:50
Decachlorobiphenyl [2]	79.8	30-150		2/12/22 11:50
Tetrachloro-m-xylene [1]	83.9	30-150		2/12/22 11:50
Tetrachloro-m-xylene [2]	86.4	30-150		2/12/22 11:50

con-test®
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-30-21 Sampled: 1/24/2022 11:05

Sample ID: 22B0195-03

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1221 [1]	ND	0.098	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1232 [1]	ND	0.098	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1242 [1]	ND	0.098	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1248 [2]	0.12	0.098	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1254 [1]	1.3	0.098	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1260 [1]	ND	0.098	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1262 [1]	ND	0.098	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM
Aroclor-1268 [1]	ND	0.098	0.042	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:33	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		2/11/22 18:33
Decachlorobiphenyl [2]	71.3	30-150		2/11/22 18:33
Tetrachloro-m-xylene [1]	70.1	30-150		2/11/22 18:33
Tetrachloro-m-xylene [2]	70.3	30-150		2/11/22 18:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-27-21 Sampled: 1/24/2022 11:10

Sample ID: 22B0195-04

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1221 [1]	ND	0.098	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1232 [1]	ND	0.098	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1242 [1]	ND	0.098	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1248 [2]	0.32	0.098	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1254 [1]	0.50	0.098	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1260 [1]	ND	0.098	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1262 [1]	ND	0.098	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM
Aroclor-1268 [1]	ND	0.098	0.042	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 18:51	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		2/11/22 18:51
Decachlorobiphenyl [2]	75.6	30-150		2/11/22 18:51
Tetrachloro-m-xylene [1]	74.8	30-150		2/11/22 18:51
Tetrachloro-m-xylene [2]	74.2	30-150		2/11/22 18:51

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-26-21 Sampled: 1/24/2022 11:20

Sample ID: 22B0195-05

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1221 [1]	ND	0.097	0.053	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1232 [1]	ND	0.097	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1242 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1248 [1]	1.2	0.097	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1254 [1]	1.1	0.097	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1260 [1]	ND	0.097	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1262 [1]	ND	0.097	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM
Aroclor-1268 [1]	ND	0.097	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:09	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.0	30-150		2/11/22 19:09
Decachlorobiphenyl [2]	68.8	30-150		2/11/22 19:09
Tetrachloro-m-xylene [1]	71.7	30-150		2/11/22 19:09
Tetrachloro-m-xylene [2]	71.0	30-150		2/11/22 19:09

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-25-21 Sampled: 1/24/2022 11:25

Sample ID: 22B0195-06

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1221 [1]	ND	0.096	0.053	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1232 [1]	ND	0.096	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1242 [1]	ND	0.096	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1248 [1]	0.22	0.096	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1254 [2]	0.66	0.096	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1260 [1]	ND	0.096	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1262 [1]	ND	0.096	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM
Aroclor-1268 [1]	ND	0.096	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:27	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		2/11/22 19:27
Decachlorobiphenyl [2]	66.8	30-150		2/11/22 19:27
Tetrachloro-m-xylene [1]	69.2	30-150		2/11/22 19:27
Tetrachloro-m-xylene [2]	68.9	30-150		2/11/22 19:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-24-21 Sampled: 1/24/2022 11:27

Sample ID: 22B0195-07

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1221 [1]	ND	0.099	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1232 [1]	ND	0.099	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1242 [1]	ND	0.099	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1248 [1]	0.83	0.099	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1254 [1]	0.55	0.099	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1260 [1]	ND	0.099	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1262 [1]	ND	0.099	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM
Aroclor-1268 [1]	ND	0.099	0.042	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 19:45	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		2/11/22 19:45
Decachlorobiphenyl [2]	69.3	30-150		2/11/22 19:45
Tetrachloro-m-xylene [1]	69.3	30-150		2/11/22 19:45
Tetrachloro-m-xylene [2]	69.4	30-150		2/11/22 19:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-23-21 Sampled: 1/24/2022 11:30

Sample ID: 22B0195-08

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1221 [1]	ND	0.096	0.053	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1232 [1]	ND	0.096	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1242 [1]	ND	0.096	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1248 [2]	0.24	0.096	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1254 [2]	0.21	0.096	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1260 [2]	0.10	0.096	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1262 [1]	ND	0.096	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM
Aroclor-1268 [1]	ND	0.096	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:03	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.7	30-150		2/11/22 20:03
Decachlorobiphenyl [2]	66.1	30-150		2/11/22 20:03
Tetrachloro-m-xylene [1]	64.4	30-150		2/11/22 20:03
Tetrachloro-m-xylene [2]	64.2	30-150		2/11/22 20:03

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-32-21 Sampled: 1/24/2022 12:35

Sample ID: 22B0195-09

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1221 [1]	ND	0.095	0.052	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1232 [1]	ND	0.095	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1242 [1]	ND	0.095	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1248 [2]	0.35	0.095	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1254 [2]	0.86	0.095	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1260 [1]	ND	0.095	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1262 [1]	ND	0.095	0.032	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM
Aroclor-1268 [1]	ND	0.095	0.040	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 20:21	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.4	30-150		2/11/22 20:21
Decachlorobiphenyl [2]	69.8	30-150		2/11/22 20:21
Tetrachloro-m-xylene [1]	67.6	30-150		2/11/22 20:21
Tetrachloro-m-xylene [2]	68.5	30-150		2/11/22 20:21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-31-21 Sampled: 1/24/2022 12:40

Sample ID: 22B0195-10

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1221 [1]	ND	0.49	0.27	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1232 [1]	ND	0.49	0.19	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1242 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1248 [1]	0.86	0.49	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1254 [2]	4.2	0.49	0.16	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1260 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1262 [1]	ND	0.49	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB
Aroclor-1268 [1]	ND	0.49	0.21	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.3	30-150		2/12/22 12:08
Decachlorobiphenyl [2]	76.0	30-150		2/12/22 12:08
Tetrachloro-m-xylene [1]	120	30-150		2/12/22 12:08
Tetrachloro-m-xylene [2]	92.7	30-150		2/12/22 12:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-33-21 Sampled: 1/24/2022 12:45

Sample ID: 22B0195-11

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1221 [1]	ND	0.47	0.26	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1232 [1]	ND	0.47	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1242 [1]	ND	0.47	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1248 [2]	0.59	0.47	0.15	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1254 [2]	6.9	0.47	0.15	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1260 [1]	ND	0.47	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1262 [1]	ND	0.47	0.16	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB
Aroclor-1268 [1]	ND	0.47	0.20	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		2/12/22 12:26
Decachlorobiphenyl [2]	99.3	30-150		2/12/22 12:26
Tetrachloro-m-xylene [1]	95.4	30-150		2/12/22 12:26
Tetrachloro-m-xylene [2]	93.9	30-150		2/12/22 12:26

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: FD-20220124-1 Sampled: 1/24/2022 00:00

Sample ID: 22B0195-12

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1221 [1]	ND	0.49	0.27	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1232 [1]	ND	0.49	0.19	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1242 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1248 [1]	0.50	0.49	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1254 [1]	7.0	0.49	0.15	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1260 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1262 [1]	ND	0.49	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB
Aroclor-1268 [1]	ND	0.49	0.21	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 12:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		2/12/22 12:44
Decachlorobiphenyl [2]	86.6	30-150		2/12/22 12:44
Tetrachloro-m-xylene [1]	86.6	30-150		2/12/22 12:44
Tetrachloro-m-xylene [2]	83.1	30-150		2/12/22 12:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-34-21 Sampled: 1/24/2022 12:50

Sample ID: 22B0195-13

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1221 [1]	ND	0.095	0.053	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1232 [1]	ND	0.095	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1242 [1]	ND	0.095	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1248 [1]	ND	0.095	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1254 [1]	ND	0.095	0.029	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1260 [1]	ND	0.095	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1262 [1]	ND	0.095	0.032	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM
Aroclor-1268 [1]	ND	0.095	0.040	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:39	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.5	30-150		2/11/22 22:39
Decachlorobiphenyl [2]	57.0	30-150		2/11/22 22:39
Tetrachloro-m-xylene [1]	56.4	30-150		2/11/22 22:39
Tetrachloro-m-xylene [2]	57.7	30-150		2/11/22 22:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-41-21 Sampled: 1/24/2022 13:00

Sample ID: 22B0195-14

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1221 [1]	ND	0.097	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1232 [1]	ND	0.097	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1242 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1248 [1]	1.8	0.097	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1254 [2]	1.2	0.097	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1260 [2]	0.17	0.097	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1262 [1]	ND	0.097	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM
Aroclor-1268 [1]	ND	0.097	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 22:57	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.9	30-150		2/11/22 22:57
Decachlorobiphenyl [2]	78.9	30-150		2/11/22 22:57
Tetrachloro-m-xylene [1]	78.9	30-150		2/11/22 22:57
Tetrachloro-m-xylene [2]	78.4	30-150		2/11/22 22:57

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-36-21 Sampled: 1/24/2022 14:00

Sample ID: 22B0195-15

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1221 [1]	ND	0.098	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1232 [1]	ND	0.098	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1242 [1]	ND	0.098	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1248 [2]	0.22	0.098	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1254 [2]	0.91	0.098	0.032	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1260 [1]	ND	0.098	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1262 [1]	ND	0.098	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM
Aroclor-1268 [1]	ND	0.098	0.042	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:15	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		2/11/22 23:15
Decachlorobiphenyl [2]	77.1	30-150		2/11/22 23:15
Tetrachloro-m-xylene [1]	76.4	30-150		2/11/22 23:15
Tetrachloro-m-xylene [2]	76.0	30-150		2/11/22 23:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-35-21 Sampled: 1/24/2022 14:10

Sample ID: 22B0195-16

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1221 [1]	ND	0.097	0.053	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1232 [1]	ND	0.097	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1242 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1248 [2]	0.16	0.097	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1254 [1]	0.84	0.097	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1260 [1]	ND	0.097	0.035	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1262 [1]	ND	0.097	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM
Aroclor-1268 [1]	ND	0.097	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:33	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		2/11/22 23:33
Decachlorobiphenyl [2]	74.8	30-150		2/11/22 23:33
Tetrachloro-m-xylene [1]	74.8	30-150		2/11/22 23:33
Tetrachloro-m-xylene [2]	74.4	30-150		2/11/22 23:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-37-21 Sampled: 1/24/2022 14:15

Sample ID: 22B0195-17

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1221 [1]	ND	0.097	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1232 [1]	ND	0.097	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1242 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1248 [2]	0.079	0.097	0.031	mg/Kg	1	J	SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1254 [1]	0.15	0.097	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1260 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1262 [1]	ND	0.097	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM
Aroclor-1268 [1]	ND	0.097	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/11/22 23:51	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		2/11/22 23:51
Decachlorobiphenyl [2]	78.1	30-150		2/11/22 23:51
Tetrachloro-m-xylene [1]	82.6	30-150		2/11/22 23:51
Tetrachloro-m-xylene [2]	82.0	30-150		2/11/22 23:51

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-38-21 Sampled: 1/24/2022 14:20

Sample ID: 22B0195-18

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1221 [1]	ND	0.49	0.27	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1232 [1]	ND	0.49	0.19	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1242 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1248 [2]	7.3	0.49	0.16	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1254 [2]	3.9	0.49	0.16	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1260 [1]	ND	0.49	0.18	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1262 [1]	ND	0.49	0.17	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB
Aroclor-1268 [1]	ND	0.49	0.21	mg/Kg	5		SW-846 8082A	2/6/22	2/12/22 13:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.5	30-150		2/12/22 13:02
Decachlorobiphenyl [2]	95.0	30-150		2/12/22 13:02
Tetrachloro-m-xylene [1]	98.6	30-150		2/12/22 13:02
Tetrachloro-m-xylene [2]	98.4	30-150		2/12/22 13:02

con-test®
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-39-21 Sampled: 1/24/2022 14:25

Sample ID: 22B0195-19

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1221 [1]	ND	0.099	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1232 [1]	ND	0.099	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1242 [1]	ND	0.099	0.037	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1248 [2]	0.13	0.099	0.032	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1254 [1]	0.11	0.099	0.030	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1260 [1]	ND	0.099	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1262 [1]	ND	0.099	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM
Aroclor-1268 [1]	ND	0.099	0.042	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:27	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		2/12/22 0:27
Decachlorobiphenyl [2]	69.1	30-150		2/12/22 0:27
Tetrachloro-m-xylene [1]	66.3	30-150		2/12/22 0:27
Tetrachloro-m-xylene [2]	65.1	30-150		2/12/22 0:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave., Tonawanda, Sample Description: Work Order: 22B0195

Date Received: 2/1/2022

Field Sample #: CC-40-21 Sampled: 1/24/2022 14:45

Sample ID: 22B0195-20

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1221 [1]	ND	0.097	0.054	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1232 [1]	ND	0.097	0.038	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1242 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1248 [1]	0.25	0.097	0.034	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1254 [2]	0.16	0.097	0.031	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1260 [1]	ND	0.097	0.036	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1262 [1]	ND	0.097	0.033	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM
Aroclor-1268 [1]	ND	0.097	0.041	mg/Kg	1		SW-846 8082A	2/6/22	2/12/22 0:45	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.1	30-150		2/12/22 0:45
Decachlorobiphenyl [2]	71.0	30-150		2/12/22 0:45
Tetrachloro-m-xylene [1]	61.3	30-150		2/12/22 0:45
Tetrachloro-m-xylene [2]	61.1	30-150		2/12/22 0:45

DATA USABILITY SUMMARY REPORT

COMPANY:	AECOM Technical Services Northeast, Inc.
PROJECT NAME:	Tonawanda Forge Site # 195274
CONTRACTED LAB:	Con-Test Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	EPA Method 680 - Modified
VALIDATION GUIDELINES:	*USEPA Region II Data Validation SOP for Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS and SOW for Analysis of Chlorinated Biphenyl (CB) Congeners, CBC01.0, May 2005*; Professional Judgment
SAMPLE MATRIX:	Groundwater
TYPES OF ANALYSES:	Polychlorinated Biphenyl Homologues (PCBH)

DATA REVIEWER(S):	Peter R. Fairbanks
SDG NUMBERS:	22A0722, 22A0733, 22A1116, 22A1219, and 22A1359
SAMPLING DATE(S):	January 10 - 21, 2022

SAMPLES:

Client Sample ID	Laboratory ID	PCBH
AOC-01-MW-11S	22A0722-07	X
AOC-16-MW-E	22A0722-17	X
AOC-03-PZ-10	22A0733-05	X
AOC-03-PZ-09	22A0733-13	X
MW-22S	22A0733-23	X
AOC-08-MW-18S	22A1116-11	X
AOC-10-MW-16	22A1219-05	X
AOC-13-MW-19S	22A1219-07	X
AOC-13-MW-19S-FF	22A1219-08	X
AOC-13-MW-02S	22A1219-13	X
AOC-13-MW-02S-FF	22A1219-14	X
AOC-13-MW-02I	22A1219-17	X
AOC-13-MW-02I-FF	22A1219-18	X
MW-F	22A1539-07	X

Suffix Codes: DL= DILUTION, FF = FIELD FILTERED, MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-Test Analytical Laboratory – 22A0722, 22A0733, 22A1116, 22A1219, and 22A1359

PCB HOMOLOGUES

SUMMARY

I.) General:

The analyses for PCB Homologues were performed per EPA Method 680 - Modified.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All samples were analyzed outside the laboratory recommended holding time criteria or 40 days from extraction. Per USEPA, there is no demonstrated holding time for PCB homologues in waters; sample extracts can be stored at 0-4°C up to 1 year before analysis. No data qualification was necessary.

IV.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the associated method blanks. No data qualification was necessary.

Equipment Blanks:

There was no equipment blank submitted in association with this SDG. No data qualification was necessary.

Field Blanks:

There was no field blank submitted in association with this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met, except for low TCX recovery for samples AOC-13-MW-02I and -02I-FF. The PCB homologue results for these two samples were qualified as estimated (J/UJ).

VIII.) Laboratory Control Samples (LCS):

The laboratory did not report LCS results for these SDGs, because they used the PCB Aroclor (EPA Method 608.3) extracts for homologue sample analysis. Note, the Aroclor LCSs were within QC limits, indicating good extraction/analysis efficiency. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD submitted in association with these SDGs for PCB homologue analysis. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples submitted in association with these SDGs for PCB homologue analysis. No data qualification was necessary.

XI.) Homologue Identification:

All homologue criteria were met. Note, the laboratory used the PCB Aroclor (EPA Method 608.3) extracts for homologue analysis. As a result, decachlorobiphenyl (DCBP) was not reported because DCBP is a surrogate for EPA Method 608.3. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met, except for sample AOC-13-MW-02I, which exhibited a biased high recovery for IS chrysene-d12. Since hexachlorobiphenyls to nonachlorobiphenyls were not detected in the sample, no data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

As noted above, the laboratory used the PCB Aroclor (EPA Method 608.3) extracts for homologue analysis. As a result, the final volume of the extract was 10 mL. EPA Method 680 requires extracts to be concentrated down to 1 mL. Therefore, CRQL criteria may not have been met. No data qualification was necessary.

ATTACHMENT A

VALIDATED FORM Is

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-01-MW-11S

Sample ID: 22A0722-07 Start Date/Time: 1/12/2022 2:10:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 2:50:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.010	0.0053	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Dichlorobiphenyls	ND	0.010	0.0036	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Trichlorobiphenyls	ND	0.020	0.012	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Tetrachlorobiphenyls	ND	0.020	0.0082	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Pentachlorobiphenyls	ND	0.020	0.016	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Hexachlorobiphenyls	ND	0.020	0.0074	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Heptachlorobiphenyls	ND	0.031	0.011	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Octachlorobiphenyls	ND	0.031	0.015	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Nonachlorobiphenyls	ND	0.051	0.013	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/14/22	4/19/22 11:31	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	58.5	50-125		4/19/22 11:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0722

Date Received: 1/14/2022

Field Sample #: AOC-16-MW-E

Sample ID: 22A0722-17 Start Date/Time: 1/10/2022 10:55:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 11:30:00AM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0055	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Dichlorobiphenyls	ND	0.011	0.0037	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Trichlorobiphenyls	ND	0.021	0.012	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Tetrachlorobiphenyls	ND	0.021	0.0085	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Pentachlorobiphenyls	ND	0.021	0.016	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Hexachlorobiphenyls	ND	0.021	0.0076	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Heptachlorobiphenyls	ND	0.032	0.012	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Octachlorobiphenyls	ND	0.032	0.015	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Nonachlorobiphenyls	ND	0.053	0.014	µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/14/22	4/19/22 12:08	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	65.5	50-125		4/19/22 12:08

con-test®
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-03-PZ-10

Sample ID: 22A0733-05 Start Date/Time: 1/12/2022 2:07:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 2:44:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0057	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Dichlorobiphenyls	0.11	0.011	0.0039	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Trichlorobiphenyls	0.68	0.022	0.013	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Tetrachlorobiphenyls	0.87	0.022	0.0089	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Pentachlorobiphenyls	0.11	0.022	0.017	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Hexachlorobiphenyls	0.028	0.022	0.0080	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Heptachlorobiphenyls	ND	0.033	0.012	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Octachlorobiphenyls	ND	0.033	0.016	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Nonachlorobiphenyls	ND	0.055	0.014	µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR
Total Polychlorinated biphenyls	1.8			µg/L	1		EPA 680 Modified	1/18/22	3/21/22 18:11	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	99.9	50-125		3/21/22 18:11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: AOC-03-PZ-09

Sample ID: 22A0733-13 Start Date/Time: 1/10/2022 4:15:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/10/2022 4:35:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0099	0.0051	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Dichlorobiphenyls	0.012	0.0099	0.0035	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Trichlorobiphenyls	0.21	0.020	0.011	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Tetrachlorobiphenyls	0.92	0.020	0.0080	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Pentachlorobiphenyls	0.046	0.020	0.015	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Hexachlorobiphenyls	ND	0.020	0.0072	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Heptachlorobiphenyls	ND	0.030	0.011	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Octachlorobiphenyls	ND	0.030	0.014	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Nonachlorobiphenyls	ND	0.050	0.013	µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR
Total Polychlorinated biphenyls	1.2			µg/L	1		EPA 680 Modified	1/17/22	3/21/22 18:49	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	88.4	50-125		3/21/22 18:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A0733

Date Received: 1/14/2022

Field Sample #: MW-22S

Sample ID: 22A0733-23 Start Date/Time: 1/12/2022 2:28:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/12/2022 3:04:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0060	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Dichlorobiphenyls	ND	0.011	0.0040	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Trichlorobiphenyls	ND	0.023	0.013	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Tetrachlorobiphenyls	ND	0.023	0.0092	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Pentachlorobiphenyls	ND	0.023	0.018	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Hexachlorobiphenyls	ND	0.023	0.0083	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Heptachlorobiphenyls	ND	0.034	0.013	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Octachlorobiphenyls	ND	0.034	0.017	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Nonachlorobiphenyls	ND	0.057	0.015	µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/18/22	4/19/22 12:46	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	56.0	50-125		4/19/22 12:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1116

Date Received: 1/21/2022

Field Sample #: AOC-08-MW-18S

Sample ID: 22A1116-11 Start Date/Time: 1/19/2022 10:30:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/19/2022 11:00:00AM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0056	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Dichlorobiphenyls	ND	0.011	0.0038	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Trichlorobiphenyls	ND	0.022	0.012	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Tetrachlorobiphenyls	ND	0.022	0.0086	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Pentachlorobiphenyls	ND	0.022	0.017	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Hexachlorobiphenyls	ND	0.022	0.0078	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Heptachlorobiphenyls	ND	0.032	0.012	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Octachlorobiphenyls	ND	0.032	0.016	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Nonachlorobiphenyls	ND	0.054	0.014	µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/26/22	4/19/22 14:01	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	73.1	50-125		4/19/22 14:01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-10-MW-16

Sample ID: 22A1219-05 Start Date/Time: 1/20/2022 12:20:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 12:56:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0055	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Dichlorobiphenyls	ND	0.011	0.0037	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Trichlorobiphenyls	ND	0.021	0.012	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Tetrachlorobiphenyls	ND	0.021	0.0085	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Pentachlorobiphenyls	ND	0.021	0.016	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Hexachlorobiphenyls	ND	0.021	0.0076	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Heptachlorobiphenyls	ND	0.032	0.012	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Octachlorobiphenyls	ND	0.032	0.015	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Nonachlorobiphenyls	ND	0.053	0.014	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/27/22	4/19/22 14:38	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	52.6	50-125		4/19/22 14:38

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-19S

Sample ID: 22A1219-07 Start Date/Time: 1/20/2022 2:05:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 2:46:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0097	0.0050	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Dichlorobiphenyls	0.22	0.0097	0.0034	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Trichlorobiphenyls	1.1	0.019	0.011	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Tetrachlorobiphenyls	1.5	0.019	0.0078	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Pentachlorobiphenyls	0.39	0.019	0.015	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Hexachlorobiphenyls	0.028	0.019	0.0070	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Heptachlorobiphenyls	ND	0.029	0.011	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Octachlorobiphenyls	ND	0.029	0.014	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Nonachlorobiphenyls	ND	0.049	0.013	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR
Total Polychlorinated biphenyls	3.2			µg/L	1		EPA 680 Modified	1/27/22	3/21/22 19:26	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	58.0	50-125		3/21/22 19:26

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-18S - FF

Sample ID: 22A1219-08 Start Date/Time: 1/20/2022 2:05:00PM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 2:46:00PM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0058	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Dichlorobiphenyls	ND	0.011	0.0039	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Trichlorobiphenyls	ND	0.022	0.013	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Tetrachlorobiphenyls	ND	0.022	0.0089	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Pentachlorobiphenyls	ND	0.022	0.017	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Hexachlorobiphenyls	ND	0.022	0.0080	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Heptachlorobiphenyls	ND	0.033	0.012	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Octachlorobiphenyls	ND	0.033	0.016	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Nonachlorobiphenyls	ND	0.056	0.014	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:16	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	59.6	50-125		4/19/22 15:16

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02S

Sample ID: 22A1219-13 Start Date/Time: 1/20/2022 9:41:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 10:26:00AM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	0.41	0.011	0.0055	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Dichlorobiphenyls	3.4	0.011	0.0037	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Trichlorobiphenyls	7.8	0.021	0.012	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Tetrachlorobiphenyls	8.4	0.021	0.0085	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Pentachlorobiphenyls	0.52	0.021	0.016	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Hexachlorobiphenyls	ND	0.021	0.0076	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Heptachlorobiphenyls	ND	0.032	0.012	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Octachlorobiphenyls	ND	0.032	0.015	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Nonachlorobiphenyls	ND	0.053	0.014	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR
Total Polychlorinated biphenyls	21			µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:41	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	67.6	50-125		3/21/22 20:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02S - FF

Sample ID: 22A1219-14 Start Date/Time: 1/20/2022 9:41:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 10:26:00AM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0055	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Dichlorobiphenyls	ND	0.011	0.0037	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Trichlorobiphenyls	ND	0.021	0.012	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Tetrachlorobiphenyls	0.066	0.021	0.0085	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Pentachlorobiphenyls	ND	0.021	0.016	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Hexachlorobiphenyls	ND	0.021	0.0076	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Heptachlorobiphenyls	ND	0.032	0.012	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Octachlorobiphenyls	ND	0.032	0.015	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Nonachlorobiphenyls	ND	0.053	0.014	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR
Total Polychlorinated biphenyls	0.066			µg/L	1		EPA 680 Modified	1/27/22	4/19/22 15:53	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	55.6	50-125		4/19/22 15:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02I

Sample ID: 22A1219-17 Start Date/Time: 1/20/2022 11:11:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 11:41:00AM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	0.012 J	0.010	0.0052	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Dichlorobiphenyls	0.12 J	0.010	0.0035	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Trichlorobiphenyls	0.56 J	0.020	0.011	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Tetrachlorobiphenyls	0.69 J	0.020	0.0080	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Pentachlorobiphenyls	0.087 J	0.020	0.016	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Hexachlorobiphenyls	ND UJ	0.020	0.0072	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Heptachlorobiphenyls	ND UJ	0.030	0.011	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Octachlorobiphenyls	ND UJ	0.030	0.014	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Nonachlorobiphenyls	ND UJ	0.050	0.013	µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR
Total Polychlorinated biphenyls	1.5 J			µg/L	1		EPA 680 Modified	1/27/22	3/21/22 20:03	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	**35.0** *	50-125	S-26	3/21/22 20:03

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2390 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1219

Date Received: 1/22/2022

Field Sample #: AOC-13-MW-02I - FF

Sample ID: 22A1219-18 Start Date/Time: 1/20/2022 11:11:00AM

Sample Matrix: Ground Water Stop Date/Time: 1/20/2022 11:41:00AM

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND UJ	0.0097	0.0050	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Dichlorobiphenyls	ND UJ	0.0097	0.0034	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Trichlorobiphenyls	ND UJ	0.019	0.011	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Tetrachlorobiphenyls	ND UJ	0.019	0.0078	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Pentachlorobiphenyls	ND UJ	0.019	0.015	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Hexachlorobiphenyls	ND UJ	0.019	0.0070	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Heptachlorobiphenyls	ND UJ	0.029	0.011	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Octachlorobiphenyls	ND UJ	0.029	0.014	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Nonachlorobiphenyls	ND UJ	0.049	0.013	µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR
Total Polychlorinated biphenyls	0.0 UJ			µg/L	1		EPA 680 Modified	1/27/22	4/19/22 16:31	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	**48.6** *	50-125	S-26	4/19/22 16:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 2890 Kenmore Ave, Tonawanda, N Sample Description: Work Order: 22A1539

Date Received: 1/28/2022

Field Sample #: MW-F Sampled: 1/21/2022 09:57

Sample ID: 22A1539-07

Sample Matrix: Ground Water

Sample Flags: H-10

PCB Homologues by GC/MS Water

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.011	0.0055	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Dichlorobiphenyls	ND	0.011	0.0037	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Trichlorobiphenyls	ND	0.021	0.012	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Tetrachlorobiphenyls	ND	0.021	0.0085	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Pentachlorobiphenyls	ND	0.021	0.016	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Hexachlorobiphenyls	ND	0.021	0.0076	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Heptachlorobiphenyls	ND	0.032	0.012	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Octachlorobiphenyls	ND	0.032	0.015	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Nonachlorobiphenyls	ND	0.053	0.014	µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR
Total Polychlorinated biphenyls	0.0			µg/L	1		EPA 680 Modified	1/28/22	4/19/22 17:46	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	53.4	50-125		4/19/22 17:46

APPENDIX K

CAMP NOTES/DATA

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.0 IF

Continued from page

11/2/20

weather: cloudy windy
Temp.: 32° - 34°
Wind: 15 - 30 mph

on site personnel	Affiliation	on	off
DAVID CUFFIELD JR	AECOM	0830	1600
MIKE GUTMANN	"	0830	1200
Kevin McGovern	"	0730	1600
Peter Fairbanks	"	0830	
TOM URBAN	"	0730	
Kevin Bush	NOTHNAGLE Drilling	0940	
Cory Dillon	" "	0940	

0955 - AECOM conducted the Health & Safety meeting and Covid-19 Check list.
1015 - NOTHNAGLE Began setting up at sample location.
1020 - Set up camp monitoring devices PID and dust-Trak up wind and down wind:

Camp monitoring DHTH

Location	TIME	PID (PPM)	DUST-TRAK mg/m³
UP WIND	1030	0.0	0.003
DOWN WIND	1030	0.0	0.009
UP WIND	1045	0.0	0.015
DOWN WIND	1045	0.0	0.004
UP WIND	1100	0.0	0.009
DN WIND	1100	0.0	0.011
UP WIND	1115	0.0	0.015
DN WIND	1115	0.0	0.009
UP WIND	1130	0.0	0.010
DN WIND	1130	0.0	0.008

Continued to page

SIGNATURE David Cuffield Jr
DISCLOSED TO AND UNDERSTOOD BY

DATE 11/2/20
DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.0 1F

Continued from page

11/2/20

Camp Monitoring DATA

Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)	Comments
UP WIND	1145	0.0	0.008	
DN WIND	1145	0.0	0.006	
UP WIND	1200	0.0	0.006	
DN WIND	1200	0.0	0.012	
UP WIND	1215	0.0	0.008	
DN WIND	1215	0.0	0.016	
UP WIND	1230	0.0	0.002	
DN WIND	1230	0.0	0.004	
UP WIND	1245	0.0	0.008	
DN WIND	1245	0.0	0.001	
UP WIND	1300	0.0	0.006	
DN WIND	1300	0.1	0.012	
UP WIND	1315	0.0	0.004	
DN WIND	1315	0.1	0.001	
UP WIND	1330	0.0	0.009	
DN WIND	1330	0.0	0.008	
UP WIND	1345	0.2	0.012	
DN WIND	1345	0.0	0.018	
UP WIND	1400	0.0	0.001	
DN WIND	1400	0.0	0.000	
UP WIND	1415	0.0	0.000	
DN WIND	1415	0.0	0.003	
UP WIND	1430	0.3	0.000	
DN WIND	1430	0.0	0.006	
UP WIND	1445	0.0	0.014	
DN WIND	1445	0.0	0.009	
UP WIND	1500	0.0	0.008	
DN WIND	1500	0.0	0.001	
UP WIND	1515	0.0	0.000	
DN WIND	1515	0.0	0.000	

Continued to page

SIGNATURE David Canfield Jr DATE 11/2/20

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.8 11F

Continued from page

11/2/20

1530 - Began shutting down for the day - NOTHNAGLE drilling a total of 19 SB/I borings for the day.

1540 - Began shutting down comp monitoring devices for the day. No elevator PID and dust-Trak reading were detected throughout the day

1600 - Departed off site for the day

11/3/20

weather: cloudy
Temp: 43° - 49°
WIND: 5 - 15 mph

~~On~~ OFFSITE personnel	Affiliation	On	OFF
DAVID COFIELD	AECOM	0750	1600
Kevin McGovern	"	0750	1600
Peter Fairbank	"	0750	"
TOM URBAN	"	0750	"
Kevin Bush	Nothnagle Drilling	0750	"
Cory Dillon	" "	0750	"
Mike Guttman	AECOM	?	?

0825 - AECOM conducted safety & health tailgate meeting and Covid-9 check-list.
0830 - Nothnagle began setting up to resume geoprobing services.
0835 - AECOM began setting up comp. monitoring devices utilizing the PID and the Dust-Trak units up wind and down wind.

Continued to page

SIGNATURE David Cofield
DISCLOSED TO AND UNDERSTOOD BY

DATE 11/2/20 11/3/20
DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.0 1F

Continued from page

11/3/20 Camp monitoring DATA

Location	TIME	PID (ppm)	DUST-TRAK
UP WIND	0845	0.0	0.001
DN "	"	0.0	0.008
UP "	0900	0.0	0.000
DN "	"	0.0	0.000
UP "	0915	0.1	0.000
DN "	"	0.0	0.018
UP "	0930	0.5	0.006
DN "	"	0.0	0.000
UP "	0945	0.0	0.006
DN "	"	0.0	0.000
UP "	1000	0.0	0.014
DN "	"	0.0	0.016
UP "	1015	0.0	0.008
DN "	"	0.0	0.013
UP "	1030	0.0	0.018
DN "	"	0.0	0.012
UP "	1045	0.0	0.018
DN "	"	0.2	0.010
UP "	1100	0.0	0.000
DN "	"	0.0	0.009
UP "	1115	0.5	0.009
DN "	"	0.1	0.018
UP "	1130	0.5	0.000
DN "	"	0.0	0.014
UP "	1145	0.0	0.001
DN "	"	0.3	0.007
UP "	1200	0.1	0.000
DN "	"	0.0	0.000
UP "	1215	0.0	0.014
DN "	"	0.4	0.008
UP "	1230	0.0	0.000
DN "	"	0.1	0.000

Continued to page

SIGNATURE [signature] DATE 11/3/20

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.0 IF

Continued from page

11/3/20 Camp Monitoring DATA

Location	Time	PID (ppm)	Dust-Trak (mg/m3)
UP	wind	1245	0.001
DN	"	"	0.016
UP	"	1300	0.000
DN	"	"	0.010
UP	"	1315	0.016
DN	"	"	0.018
UP	"	1330	0.006
DN	"	"	0.008
UP	"	1345	0.000
DN	"	"	0.009
UP	"	1400	0.000
DN	"	"	0.013
UP	"	1415	0.000
DN	"	"	0.009
UP	"	1430	0.000
DN	"	"	0.012

1635 - Began shutting down for the day *Nothnagle drilling a total of 6 soil borings for the day and 2 cores (concrete) for the day

1430 - Began shutting down the camp monitoring devices for the day

1600 - Nothnagle drilling, Arcom, departed off site for the day.

Continued to page

SIGNATURE

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/3/20

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60336574 TASK 3.0, 1F

Continued from page

11/4/20

weather: Clear Sunny
Temp: 50° - 64°
WIND: 5 - 15 mph

on site personnel	Affiliation	on	off
David Cofield	AECOM	0700	1600
Kevin McGovern	"	"	"
Peter Fairbank	"	"	
Tom Urban	"	"	
Kevin Bush	Nothnagle Drilling	"	
Cory Dillon	" "	"	
Mike Gutmann	AECOM	?	?
Randy West	"	?	?

0715 - AECOM Conducted safety and Health meeting and covid-19 check list.
- Nothnagle Drilling resumed geoprobing and core drilling concrete

0739 - AECOM SET up camp monitor devices utilizing the PID and the DUST-TRAK meters. up wind and down wind locations. NOTE: Cal both PID & DUST-TRAK

NOTE: UP WIND: FA01737 - DUST TRAK / PID FA01248
DN WIND: FA00363 DUST TRAK / PID FA00333

0800 - Departed off site to pick up paper towels

1530 - Began shutting down for the day
*Nothnagle Drilling: A total of 10 cores and 12 soil boring were completed for the day
1530 - AECOM began shutting down Comp monitoring devices for the day.
1600 - Departed off site for the day

Continued to page

SIGNATURE David Cofield DATE 11/4/20

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.0

Continued from page

11/4/20

Camp monitoring DATA

Location	TIME	PID(PPM)	ug/m3 DUST-REAK	comment
UP WIND	0800	0.0	0.019	
DN "	"	0.1	0.005	
UP "	0815	0.0	0.009	
DN "	"	0.2	0.008	
UP "	0830	0.0	0.018	
DN "	"	0.1	0.006	
UP "	0845	0.0	0.015	
DN "	"	0.1	0.008	
UP "	0900	0.0	0.014	
DN "	"	0.0	0.015	
UP "	0915	0.1	0.018	
DN "	"	0.2	0.012	
UP "	0930	0.0	0.009	
DN "	"	0.3	0.023	
UP "	0945	0.0	0.011	
DN "	"	0.1	0.016	
UP "	1000	0.0	0.015	
DN "	"	0.0	0.012	
UP "	1015	0.2	0.015	
DN "	"	0.0	0.021	
UP "	1030	0.2	0.010	
DN "	"	0.0	0.013	
UP "	1045	0.0	0.012	
DN "	"	0.1	0.007	
UP "	1100	0.2	0.001	
DN "	"	0.2	0.006	
UP "	1115	0.0	0.004	
DN "	"	0.0	0.008	
UP "	1130	0.0	0.014	
DN "	"	0.2	0.010	

Continued to page

SIGNATURE Daniel Coffield Jr DATE 11/4/20

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

BOOK ____ PAGE 64

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.0 1F

Continued from page

11/4/20 Camp monitoring DATA

Location	TIME	PID	DUST-TRAK	Comments
UP WIND	1145	0.6	0.017	
DN "	"	0.3	0.009	
UP "	1200	0.1	0.015	
DN "	"	0.0	0.000	
UP "	1215	0.0	0.016	
DN "	"	0.0	0.007	
UP "	1230	0.2	0.009	
DN "	"	0.0	0.023	
UP "	1245	0.0	0.001	
DN "	"	0.0	0.013	
UP "	1300	0.0	0.021	
DN "	"	0.0	0.006	
UP "	1315	0.1	0.011	
DN "	"	0.0	0.004	
UP "	1330	0.0	0.009	
DN "	"	0.0	0.014	
UP "	1345	0.0	0.003	
DN "	"	0.0	0.012	
UP "	1400	0.0	0.001	
DN "	"	0.2	0.015	
UP "	1415	0.0	0.016	
DN "	"	0.0	0.009	
UP "	1430	0.2	0.013	
DN "	"	0.0	0.010	
UP "	1445	0.0	0.009	
DN "	"	0.0	0.004	
UP "	1500	0.0	0.016	
DN "	"	0.0	0.008	

Continued to page

SIGNATURE Daniel Cofrancesco DATE 11/4/20

DISCLOSED TO AND UNDERSTOOD BY ____ DATE ____

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

11/5/20

Weather: Clear Sunny
Temp: 56° - 59°
Wind: 5 - 15 mph

On site personnel	Affiliation	On	Off
David Cofield Jr	AECOM	0700	1600
Kevin McGovern	"	0700	1600
Peter Fairbanks	"	0700	1600
Tom Urban	"	0700	1600
Kevin Bush	Nothnagle Drilling	0700	1600
Cory Dillon	" "	0700	1600
Mike Gutmann	AECOM	0845	0945

0715 - AECOM Conducted safety & Health meeting and covid-19 check-list

0730 - Nothnagle drilling resumed coring and geoprobing

0785 - AECOM set up camp monitoring devices utilizing the PID and the dust-Trak meters. up wind and down wind locations. NOTE: both PID & DUST-TRAK were calibrated.

NOTE: up WIND FA01737 Dust-Trak / PID FA01248
DN WIND FA00363 DUST-TRAK / PID FA00333

1530 - Contractor began shutting down for the day
Note: Nothnagle Drilling completed a total of 15 concrete Cores and 15 Soil borings for the day

1600 - Departed off site for the day

Continued to page

SIGNATURE David Cofield Jr
DISCLOSED TO AND UNDERSTOOD BY

DATE 11/5/20

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

11/5/20 Camp monitoring DATA

Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)	Location	TIME	PID (ppm)	DUST-TRAK (mg/m³)
UP WIND	0825	0.015	0.0	UP WIND	1215	0.0	0.014
DN "	"	0.010	0.0	DN "	"	0.2	0.013
UP "	0830	0.018	0.0	UP "	1230	0.1	0.010
DN "	"	0.012	0.0	DN "	"	0.0	0.010
UP "	0845	0.016	0.0	UP "	1245	0.0	0.012
DN "	"	0.011	0.1	DN "	"	0.0	0.009
UP "	0900	0.017	0.0	UP "	1300	0.0	0.014
DN "	"	0.009	0.0	DN "	"	0.2	0.006
UP "	0915	0.009	0.2	UP "	1315	0.1	0.016
DN "	"	0.004	0.0	DN "	"	0.0	0.008
UP "	0930	0.015	0.0	UP "	1330	0.1	0.010
DN "	"	0.010	0.0	DN "	"	0.0	0.008
UP "	0945	0.014	0.0	UP "	1345	0.0	0.010
DN "	"	0.009	0.2	DN "	"	0.0	0.006
UP "	1000	0.012	0.1	UP "	1400	0.0	0.018
DN "	"	0.010	0.0	DN "	"	0.2	0.011
UP "	1015	0.012	0.0	UP "	1415	0.2	0.015
DN "	"	0.009	0.0	DN "	"	0.0	0.007
UP "	1030	0.013	0.2	UP "	1430	0.0	0.015
DN "	~~1045~~ "	0.010	0.0	DN "	"	0.1	0.003
UP "	1045	0.016	0.0	UP "	1445	0.0	0.013
DN "	~~1100~~	0.018	0.0	DN "	"	0.0	0.006
UP "	1100	0.016	0.1	UP "	1500	0.0	0.017
DN "	~~1115~~	0.010	0.0	DN "	"	0.0	0.010
UP "	1115	0.015	0.0				
DN "	~~1130~~	0.009	0.2				
UP "	1130	0.013	0.0				
DN "	~~1145~~	0.010	0.1				
UP "	1145	0.016	0.0				
DN "	~~1200~~	0.009	0.0				
UP "	1200	0.018	0.0				
DN "	"	0.010	0.0				

Continued to page

SIGNATURE Daniel Canfield

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/6/20

DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

11/6/20

weather: Clear Sunny
Temp: 57° - 67°
Wind: 5 - 15 mph

on site personnel	AFFiliation	ON	OFF
DAVID Canfield	AECOM	0700	1430
Kevin McGovern	"	"	
Peter Fairbanks	"	"	
TOM URBAN	"	"	
Kevin Bush	NOTHNAGLE DRILLING	"	
Cory Dillon	"	"	
MIKE Cuthmann	AECOM	1200	1330

0705 - AECOM conducted safety & Health meeting and Covid-19 check-list

0725 - Nothnagle Drilling resumed coring and geoprobing

0735 - AECOM began setting up camp monitoring devices utilizing the PID and DUST-TRAK meters up wind and down wind locations. NOTE: Calibrated both the PID and DUST-TRAK meters.

NOTE: UP WIND FA01787 DUST-TRAK / PID FA01248
FA00363 DUST-TRAK / PID FA00333

1400 - Nothnagle began shutting down for the day completed a total of 8 concrete cores and 14 soil borings for the day.

1430 - Departed off site for the day

Continued to page

SIGNATURE David Canfield

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/6/20

DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge **PROJECT** 60633654 TASK 3.01F

Continued from page

11/6/20

Camp monitoring DATA

Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)	Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)
UP WIND	0730	0.0	0.028	UP WIND	1115	0.0	0.029
DN WIND	"	0.0	0.022	DN "	"	0.1	0.021
UP "	0745	0.0	0.020	UP "	1130	0.0	0.025
DN "	"	0.0	0.010	DN "	"	0.0	0.019
UP "	0800	0.0	0.025	UP "	1145	0.1	0.025
DN "	"	0.1	0.010	DN "	"	0.0	0.023
UP "	0815	0.0	0.021	UP "	1200	0.0	0.028
DN "	"	0.2	0.015	DN "	"	0.2	0.016
UP "	0830	0.0	0.016	UP "	1215	0.0	0.027
DN "	"	0.0	0.012	DN "	"	0.1	0.026
UP "	0845	0.0	0.009	UP "	1230	0.0	0.024
DN "	"	0.3	0.020	DN "	"	0.0	0.028
UP "	0900	0.0	0.013	UP "	1245	0.1	0.025
DN "	"	0.0	0.022	DN "	"	0.0	0.023
UP "	0915	0.0	0.023	UP "	1300	0.0	0.026
DN "	"	0.0	0.026	DN "	"	0.0	0.014
UP "	0930	0.0	0.029	UP "	1315	0.0	0.029
DN "	"	0.0	0.025	DN "	"	0.0	0.019
UP "	0945	0.0	0.021	UP "	1330	0.2	0.023
DN "	"	0.0	0.019	DN "	"	0.1	0.026
UP "	1000	0.1	0.021	UP "	1345	0.0	0.016
DN "	"	0.0	0.024	DN "	"	0.0	0.024
UP "	1015	0.0	0.026	UP "	1400	0.3	0.022
DN "	"	0.1	0.023	DN "	"	0.0	0.020
UP "	1030	0.0	0.020				
DN "	"	0.0	0.018				
UP "	1045	0.1	0.013				
DN "	"	0.2	0.023				
UP "	1100	0.0	0.021				
DN "	"	0.0	0.020				

Continued to page

SIGNATURE David Crandall

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/6/20

DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge **PROJECT** 60633654 Task 3.01F

Continued from page

11/9/2020

weather: Clear Sunny
Temp: 45° - 70°
WIND: 5-10 mph

on site personnel	Affiliation	on	off
DAVID COFIELD JR	AECOM	0700	1700
Kevin McGovern	"	0700	1500
Sean Connelly	"	0700	1500
Tom Urban	"	0830	1500
Kevin Bush	Nothnagle Drilling	0700	1500
Cory Dillon	" "	0700	1500
Mike Guthman	AECOM	1530	1700
DAVID Harrington	NYSDEC	1530	1700

0715 - AECOM Conducted safety & Health meeting and Covid-19 check list

0730 - Nothnagle Drilling resumed concrete coring and geoprobing

0745 - AECOM set up camp monitor devices utilizing the PID and the Dust-Trak meters up wind and down wind locations. NOTE: Cal both PID & Dust-TRAK

NOTE: up wind: FA01737 DUST TRAK / PID FAD12
NO WIND: FA00363 Dust TRAK / PID FA0033

1330 - NOTHNAGLE Drilling completed geoprobing and concrete coring for the day. Completed a total of 9 concrete cores and 13 geoprobe soil borings. Completed all geoprobing for the site. NO

1345 - Nothnagle Drilling loaded up equipment (geoprobe)

1500 - Contractor departed off site

Continued to page

SIGNATURE David Cofield JR DATE 11/9/2020

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01 F

Continued from page

11/8/2020

Camp Monitoring DATA

Location	TIME	PID (PPM)	DUST TRAK (mg/m³)	Location	TIME	PID (PPM)	DUST TRAK (mg/m³)
UP-WIND	0745	0.0	0.053	UP-WIND	1130	0.0	0.023
DN-WIND	0745	0.0	0.055	DN- "	"	0.0	0.026
UP "	0800	0.0	0.056	UP "	1145	0.1	0.023
DN "	"	0.0	0.049	DN "	"	0.0	0.020
UP "	0815	0.0	0.026	UP "	1200	0.0	0.024
DN "	"	0.0	0.050	DN "	"	0.0	0.027
UP "	0830	0.0	0.046	UP "	1215	0.1	0.010
DN "	"	0.0	0.042	DN "	"	0.0	0.027
UP "	0845	0.0	0.038	UP "	1230	0.1	0.007
DN "	"	0.0	0.033	DN "	"	0.0	0.033
UP "	0800	0.0	0.038	UP "	1245	0.1	0.008
DN "	"	0.0	0.032	DN "	"	0.0	0.041
UP "	0915	0.0	0.031	UP "	1300	0.1	0.006
DN "	"	0.0	0.033	DN "	"	0.0	0.042
UP "	0930	0.0	0.026	UP "	1315	0.1	0.012
DN "	"	0.0	0.028	DN "	"	0.0	0.044
UP "	0945	0.0	0.026				
DN "	"	0.0	0.028				
UP "	1000	0.0	0.024				
DN "	"	0.0	0.025				
UP "	1015	0.0	0.027				
DN "	"	0.0	0.029				
UP "	1030	0.0	0.023				
DN "	"	0.0	0.020				
UP	1045	0.0	0.024				
DN "	"	0.0	0.022				
UP "	1100	0.0	0.026				
DN "	"	0.0	0.029				
UP "	1115	0.0	0.024				
DN "	"	0.0	0.028				

Continued to page

SIGNATURE Paul Copland

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/8/20

DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

11/10/2020

Weather: Clear Sunny Cloudy
Temp: 60° - 75°
WIND: 3 - 10 mph

On site personnel	Affiliation	On	Off
David Canfield IV	AECOM	0700	1600
Tom Urban	"	"	1600
Sean Connelly	"		1600
Kevin Bush	Nathnagle Drilling	0700	1445
Mike Gutmann	AECOM	1005	1030

0720 - AECOM Conducted safety & Health meeting and Covid-19 check list

0745 - AECOM set up camp monitoring devices utilizing the ~~0745~~ PID and Dust-Trak meters up wind and down wind locations: NOTE: Calibrated both PID & Dust-Trak

NOTE: UP WIND: FA01737 Dust-Trak / PID FA01248
DN WIND: FA00363 Dust-Trak / PID FA00333

0745 - Nathnagle Drilling began coring the remaining 8 concrete core.

1330 - Nathnagle Drilling began shutting down after completed the remaining concrete cores A Total of 8 were completed for the day

1530 - AECOM completed / collected at total of 12 surface soil samples for the day.

1600 - Departed of site for the day

Continued to page

SIGNATURE David Canfield IV DATE 11/10/2020

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

11/19/2020

Camp Monitoring DATA

Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)	Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)
UP-WIND	0730	0.0	0.011	UP-WIND	1115	0.0	0.004
DN "	"	0.0	0.017	DN "	"	0.1	0.002
UP "	0745	0.0	0.009	UP "	1130	0.0	0.000
DN "	"	0.0	0.012	DN "	"	0.0	0.003
UP "	0800	0.0	0.019	UP "	1145	0.0	0.000
DN "	"	0.0	0.023	DN "	"	0.1	0.001
UP "	0815	0.0	0.010	UP "	1200	0.3	0.000
DN "	"	0.0	0.016	DN "	"	0.0	0.002
UP "	0830	0.0	0.009	UP "	1215	0.0	0.001
DN "	"	0.0	0.013	DN "	"	0.0	0.000
UP "	0845	0.0	0.008	UP "	1230	0.1	0.002
DN "	"	0.0	0.012	DN "	"	0.0	0.000
UP "	0900	0.0	0.006	UP "	1245	0.0	0.003
DN "	"	0.0	0.010	DN "	"	0.0	0.002
UP "	0915	0.0	0.008	UP "	1300	0.1	0.001
DN "	"	0.1	0.011	DN "	"	0.0	0.002
UP "	0930	0.0	0.005				
DN "	"	0.1	0.009				
UP "	0945	0.1	0.013				
DN "	"	0.0	0.019				
UP "	1000	0.1	0.004				
DN "	"	0.1	0.009				
UP "	1015	0.0	0.006				
DN "	"	0.2	0.010				
UP "	1030	0.0	0.000				
DN "	"	0.0	0.003				
UP "	1045	0.0	0.001				
DN "	"	0.0	0.004				
UP "	1100	0.0	0.006				
DN "	"	0.0	0.002				

Continued to page

SIGNATURE David Cofrancesco

DISCLOSED TO AND UNDERSTOOD BY

DATE

DATE 11/19/2020

PROPRIETARY INFORMATION

TITLE Tonawanda Forg **PROJECT** 60633654

Continued from page

11/11/2020 weather: Cloudy Light Rain
Temp: 63° - 69°
WIND: 5-15 mph

on site personnel	Affiliation	on	off
David Cofield Jr	AECOM	0700	1600
Tom Urban	"	0700	1600
Sean Connelly	"	0700	1606

0730 - AECOM Conducted safety & Health meeting and Covid-19 check list.

0800 - AECOM set up camp monitoring devices utilizing the PID & DUST-TRAK meters up wind and down wind locations NOTE: Calibrated both the PID & DUST-TRAK.

NOTE: UP WIND: DUST-TRAK FA01737/PID FA01248
DN WIND: " " FA00363/PID FA00333

0830 - AECOM resumed collecting surface soil sampling for the day

1500 - AECOM completed collecting surface soil sampling for the day totaling ___ and began locating the remainder soil samples.

1515 - Began shutting down for the day

1600 - Departed off site

Continued to page

SIGNATURE David Cofield Jr DATE 11/11/2020

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01 F

Continued from page

11/11/2020

Camp Monitoring DATA

Location	TIME	PID (PPM)	DUST TRAK (mg/m³)	Location	TIME	PID (PPM)	DUST-TRAK (mg/m³)
UP-WIND	0800	0.001	0.0	UP-WIND	1145	0.0	0.006
DN "	0800	0.004	0.0	DN "	"	0.0	0.008
UP "	0815	0.003	0.0	UP "	1200	0.0	0.003
DN "	"	0.009	0.0	DN "	"	0.1	0.009
UP "	0830	0.003	0.0	UP "	1215	0.0	0.002
DN "	"	0.008	0.0	DN "	"	0.0	0.006
UP "	0845	0.006	0.0	UP "	1230	0.0	0.000
DN "	"	0.009	0.0	DN "	"	0.0	0.001
UP "	0900	0.004	0.0	UP "	1245	0.2	0.006
DN "	"	0.006	0.1	DN "	"	0.1	0.000
UP "	0915	0.002	0.0	UP "	1300	0.0	0.002
DN "	"	0.004	0.0	DN "	"	0.0	0.004
UP "	0930	0.006	0.0	UP "	1315	0.6	0.000
DN "	"	0.008	0.2	DN "	"	0.1	0.001
UP "	0945	0.004	0.1	UP "	1330	0.4	0.000
DN "	"	0.006	0.0	DN "	"	0.0	0.003
UP "	1000	0.003	0.0	UP "	1345	0.0	0.001
DN "	"	0.006	0.0	DN "	"	0.6	0.060
UP "	1015	0.008	0.0	UP "	1400	0.6	0.006
DN "	"	0.005	0.0	DN "	"	0.2	0.008
UP "	1030	0.001	0.0	UP "	1415	0.0	0.000
DN "	"	0.004	0.0	DN "	"	0.1	0.003
UP "	1045	0.006	0.0	UP "	1430	0.2	0.001
DN "	"	0.002	0.0	DN "	"	0.0	0.006
UP "	1100	0.006	0.0	UP "	1445	0.0	0.006
DN "	"	0.003	0.1	DN "	"	0.0	0.006
UP "	1115	0.000	0.2	UP "	1500	0.1	0.002
DN "	"	0.001	0.1	DN "	"	0.0	0.004
UP "	1130	0.003	0.0				
DN "	"	0.001	0.0				

Continued to page

SIGNATURE David C Schmidt

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/11/2020

DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forg. PROJECT 60633654 TASK -3.011

Continued from page

11/12/20

weather: Cloudy
Temp: 44°-
Wind: 5-15 mph

on site personnel	Affiliation	On	Off
David Cofield	AECOM	0700	1600
Tom Urban	"	0700	1600
Sean Connelly	"	0700	1606
Mike Gutmann	"	1130	1230

0715 - AECOM conducted safety & Health meeting and Covid-19 Check List.

0730 - AECOM setup camp monitoring devices utilizing the PID and Dust-Trak up wind and down wind locations. Calibrated the PID and Dust-Trak -

NOTE: UP WIND: FA01737 Dust-Trak / PID FA01248
ON WIND: FA00363 Dust-Trak / PID FA00333

0875 - AECOM Resumed collection of brick samples etc. for PCB analysis

1500 - Began shutting down Camp monitoring devices for the day.

1600 - Departed off site for the day

1630 - Dropped off equipment at Alpha

Continued to page

SIGNATURE David C Cofield
DISCLOSED TO AND UNDERSTOOD BY

DATE 11/12/20
DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge **PROJECT** 60633654 TASK 3.01 F

Continued from page

11/12/20

Camp Monitoring DATA

Location	Time	PID (ppm)	Dust-Trak (mg/m³)	Location	Time	PID (ppm)	Dust-Trak (mg/m³)
UP-WIND	0815	0.0	0.035	UP-WIND	1200	0.0	0.006
DN "	"	0.0	0.045	DN "	"	0.0	0.004
UP "	0830	0.0	0.009	UP "	1235	0.0	0.009
DN "	"	0.0	0.006	DN "	"	0.1	0.002
UP "	0845	0.0	0.004	UP "	1230	0.3	0.000
DN "	"	0.0	0.000	DN "	"	0.0	0.001
UP "	0900	0.0	0.010	UP "	1245	0.0	0.004
DN "	"	0.0	0.013	DN "	"	0.0	0.012
UP "	0915	0.0	0.004	UP "	1300	0.0	0.021
DN "	"	0.0	0.007	DN "	"	0.0	0.010
UP "	0930	0.0	0.028	UP "	1315	0.1	0.008
DN "	"	0.0	0.003	DN "	"	0.0	0.012
UP "	0945	0.0	0.001	UP "	1330	0.2	0.010
DN "	"	0.0	0.006	DN "	"	0.0	0.006
UP "	1000	0.0	0.002	UP "	1345	0.1	0.013
DN "	"	0.0	0.000	DN "	"	0.0	0.018
UP "	1015	0.1	0.004	UP "	1400	0.1	0.021
DN "	"	0.0	0.000	DN "	"	0.1	0.026
UP "	1030	0.3	0.002	UP "	1415	0.2	0.014
DN "	"	0.0	0.000	DN "	"	0.0	0.020
UP "	1045	0.0	0.008	UP "	1430	0.0	0.010
DN "	"	0.2	0.004	DN "	"	0.3	0.017
UP "	1100	0.0	0.000	UP "	1445	0.1	0.016
DN "	"	0.0	0.001	DN "	"	0.0	0.019
UP "	1115	0.0	0.000	UP "	1500	0.0	0.011
DN "	"	0.0	0.002	DN "	"	0.0	0.015
UP "	1130	0.0	0.000	UP "	1515	0.0	0.011
DN "	"	0.0	0.003	DN "	"	0.0	0.012
UP "	1145	0.0	0.010				
DN "	"	0.0	0.007				

Continued to page

SIGNATURE David Caffrey

DISCLOSED TO AND UNDERSTOOD BY

DATE

DATE 11/12/20

PROPRIETARY INFORMATION

BOOK

TITLE Tonawanda Forg **PROJECT** 60633654 TASK 3.

Continued from page

11/13/20

weather: Cloudy, Sunny
Temp: 27°
Wind: 0-15 mph

On site personnel	Affiliation	On	Off
(David) Cofield	AECOM	0730	1600
SEAN Connelly	"	"	1600
Mike Gotmann	"	1045	1600
Kevin Bush	Nothnagle Drilling	0900	1600
Jeremiah Leathersich	" "	"	1600
Renelle Gaylord	NYSDEC	1300	1600

0800 - Picked up dustrak/PID at Alpha Analytic
0950 - Departed site for ECO Rental Rent. 75 Rockwood Rochester, 14610
1130 - Picked up equipment at ECO-Rental
1250 - Arrived back on site
1300 - Set up the Camp monitoring devices utilizing the the PID & Dust-Trak meters down wind and up wi locations. Calibrated both PID & Dust-Trak

NOTE: UP WIND DUST-TRAK FA01281/PID FA00371
DN WIND: " " FA00280 " FA01434

Continued to page

SIGNATURE David Cofield

DISCLOSED TO AND UNDERSTOOD BY

DATE 11/13/20

DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

12/8/20

weather: cloudy
Temp.: 25 - 28°
Wind: 5 - 15 mph

On site personnel	Affiliation	ON	OFF
David Cofield	EACOM	0755	1600
Sean Connelly	"	0800	1630
Jenelle Gaylord	NYSDEC	0800	1630
Kevin Bush	Nothnagle Drilling	0800	1630

0820 - AECOM began setting up camp monitoring devices utilizing the PID and Dust-Trak meters upwind and DN wind locations.

0930 - Nothnagle Drilling continue to saw cut and excavate to ~~perform~~ conduct test pit sampling.

1500 - ND completed saw cutting activities

1530 - Began shutting down for the day

1600 - Departed off site for the day

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01F

Continued from page

12/8/20 Camp Monitoring DATA

Location	TIME	PID (ppm)	DUST-TRAK (mg/m³)	Location	TIME	PID (ppm)	DUST-TRAK (mg/m³)
UP WIND	0845	0.0		UP WIND	1245	0.0	0.007
DN "	"	0.1		DN "	"	0.2	0.003
UP "	0900	0.3		UP "	1300	0.1	0.006
DN "	"	0.1		DN "	"	0.0	0.009
UP "	0915	0.0		UP "	1315	0.0	0.020
DN "	"	0.0		DN "	"	0.1	0.014
UP "	0930	0.2		UP "	1330	0.0	0.003
DN "	"	0.0		DN "	"	0.1	0.017
UP "	0945	0.0		UP "	1345	0.3	0.002
DN "	"	0.0		DN "	"	0.1	0.014
UP "	1000	0.0		UP "	1400	0.0	0.007
DN "	"	0.0		DN "	"	0.0	0.019
UP "	1015	0.0		UP "	1415	0.0	0.010
DN "	"	0.0		DN "	"	0.0	0.006
UP "	1030	0.1		UP "	1430	0.0	0.016
DN "	"	0.3		DN "	"	0.0	0.009
UP "	1045	0.0		UP "	1445	0.0	0.010
DN "	"	0.1		DN "	"	0.1	0.016
UP "	1100	0.2		UP "	1500	0.0	0.004
DN "	"	0.1		DN "	"	0.2	0.001
UP "	1115	0.1		UP "	1515	0.0	0.011
DN "	"	0.0		DN "	"	0.0	0.006
UP "	1130	0.0		UP "	1530	0.0	0.019
DN "	"	0.2		DN "	"	0.0	0.030
UP "	1145	0.0		UP "	1545	0.0	0.016
DN "	"	0.1					
UP "	1200	0.0	0.006				
DN "	"	0.0	0.009				
UP "	1215	0.0	0.001				
DN "	"	0.0	0.004				
UP "	1230	0.1	0.001				
DN "	"	0.2	0.000				

Continued to page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01

Continued from page

12/9/2020

weather: Cloudy Snow
Temp.: 34° - 37°
Wind: 20-35 mph

Onsite personnel	Affiliation	ON	OFF
David Cofield Jr.	AECOM	0730	1600
Sean Connelly	"	0730	1600
Jenelle Gaylord	NYSDEC	0730	1300
Kevin Bush	Nothnagle Drilling	0730	1600
Jeremiah Leathersich II		0800	1600

0800 - AECOM conducted safety & Health ~~saf~~ meeting and Covid-19 Check list

0845 - AECOM set up camp monitoring devices utilizing the PID & DUST-TRAK meters upwind and downwind locations. NOTE: Cal. both PID & DUST-TRAK

1000 - Departed off site for lab pick-up (bottles)

0845 - Nothnagle resumed excavating/Test Pit services at TP-006

1540 - ND completed saw cut and excavating/Test Pit services

1450 - Began shutting down for the day

1600 - Departed off site for the day

Continued to page

SIGNATURE David Cofield Jr

DATE 11/9/20

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01

Continued from page

12/9/2020 Camp Monitoring DATA

	Location	TIME	PID (ppm)	DUST-TRAK (mg/m³)	Location	TIME	PID (ppm)	DUST-TRAK (mg/m3)
5	UP-WIND	0845	0.0	0.001	UP WIND	1245	0.0	0.001
	DN "	0845	0.0	0.017	DN "	"	0.1	0.009
	UP "	0900	0.0	0.006	UP "	1300	0.0	0.006
	DN "	"	0.0	0.010	DN "	"	0.0	0.006
	UP "	0915	0.0	0.003	UP "	1315	0.0	0.000
10	DN "	"	0.0	0.009	DN "	"	0.2	0.006
	UP "	0930	0.4	0.001	UP "	1330	0.1	0.002
	DN "	"	0.0	0.006	DN "	"	0.0	0.001
	UP "	0945	0.0	0.001	UP "	1345	0.0	0.000
	DN "	"	0.0	0.002	DN "	"	0.0	0.004
15	UP "	1000	0.0	0.001	UP "	1400	0.2	0.000
	DN "	"	0.0	0.006	DN "	"	0.0	0.001
	UP "	1015	0.2	0.001	UP "	1415	0.0	0.000
	DN "	"	0.1	0.013	DN "	"	0.0	0.007
	UP "	1030	0.0	0.010	UP "	1430	0.0	0.001
20	DN "	"	0.0	0.008	DN "	"	0.0	0.001
	UP "	1045	0.0	0.001	UP "	1445	0.0	0.009
	DN "	"	0.0	0.000	DN "	"	0.0	0.001
	UP "	1000	0.0	0.004				
	DN "	"	0.0	0.000				
25	UP "	1115	0.0	0.001				
	DN "	"	0.0	0.009				
UP	~~DN~~ "	1130	0.1	0.000				
DN	~~UP~~ "	"	0.0	0.005				
UP	~~DN~~ "	1145	0.0	0.006				
DUP	~~UP~~ "	"	0.0	0.000				
UP	~~DN~~ "	1200	0.2	0.005				
DN	~~UP~~ "	"	0.0	0.001				
UP	~~DN~~ "	1215	0.0	0.008				
DN	~~UP~~ "	"	0.1	0.000				
UP	~~DN~~ "	1230	0.0	0.000				
	DN "	"	0.0	0.000				

Continued to page

SIGNATURE David Cofrancesco DATE 11/9/20

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

BOOK PAGE

TITLE Tonawanda Forge PROJECT 60633654 TASK 3.01

Continued from page

12/10/20

Weather: Cloudy Sunny
Temp.: 38°
WIND: 0 - 15 mph

On site personnel	Affiliation	On	Off
David Cofield Jr	AECOM	0738	
Sean Connelly	"	0730	
Kevin Bush	Noth... Drilling	0730	
Jeremiah Leuthersich	Nothnagle Drilling	0730	
Mike Gutmann	AECOM	1240	

0745 - AECOM Conducted safety & Health meeting and covid 19 check list.

0755 - AECOM set up Camp monitoring devices utilizing the PID and Dust-trak meters up wind and down wind locations
NOTE: PID and Dust-Trac were cal.

UP WIND: DUST-TRAC FA01281 PID FA00371
DN WIND: " " FA00280 PID FA01434

0800 - ND began performing test-Pit (TP-09)

1000 - Complete test pits/excavation and shut down Camp monitoring devices after decon and demobilization.

1200 - Dropped off ECO-rental equipment at Alpha drop off location.

Continued to page

SIGNATURE David Cofield Jr DATE 12/10/20

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

TITLE Tonawanda PROJECT

Continued from page

12/10/20

Camp Monitoring DATA

LOCATION	TIME	PID (ppm)	DUST-TRAK (mg/m³)
UP-WIND	0805	0.0	0.009
DN "	0810	0.0	0.015
UP "	0815	0.0	0.027
DN "	"	0.0	0.024
UP "	0830	0.0	0.024
DN "	"	0.0	0.028
UP "	0845	0.0	0.021
DN "	"	0.0	0.020
UP "	0900	0.0	0.015
DN "	"	0.0	0.009
UP "	0915	0.0	0.017
DN "	"	0.0	0.016
UP "	0930	0.0	0.023
DN "	"	0.1	0.012
UP "	0945	0.0	0.009
DN "	"	0.4	0.022
UP "	1000	0.1	0.010

Continued to page

SIGNATURE Daniel C. Arnold Jr.

DISCLOSED TO AND UNDERSTOOD BY

DATE 12/10/20

DATE

PROPRIETARY INFORMATION

CAMP Data Device Identification

Device	Serial Number	Eco-Rental ID Number
RAE MiniRAE 3000 PID	592-907579	FA00333
RAE MiniRAE 3000 PID	592-911348	FA01248
RAE MiniRAE 3000 PID	592-905933	FA00371
RAE MiniRAE 3000 PID	592-912164	FA01434
RAE MultiRAE	M01EA08040	FA02940
TSI 8530 DustTrak II	8530123301	FA00363
TSI 8530 DustTrak II	8530143415	FA01737
TSI 8530 DustTrak II	8530121411	FA00280
TSI 8530 DustTrak II	8530141112	FA01281

APPENDIX L

INVESTIGATION DERIVES WASTE DOCUMENTS

Generator acknowledges that no material change has occurred either in the characteristics of or in the process generating the material.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD988932487	1.	(800) 483-3718	013220813 FLE

GENERATOR

5. Generator's Name and Mailing Address
Tonawanda Forge Site
2390 Kenmore Avenue
Tonawanda, NY 14150
Generator's Phone: (716) 873-1321

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Lone Mountain LLC
102 Industrial Park Road
Kingston, TN 37763
Facility's Phone: 865-482-8448

U.S. EPA ID Number
TNR 000 006 882

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN 3082, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetone), 9, PG III	001	DM	00230	K	D001 D001 D009 F003
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
55
SP # Z M-01

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Michael G Morrill | Signature | Month: 12 | Day: 17 | Year: 20

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Morrill | Signature | Month: 2 | Day | Year: 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

E RAT R COP

Clean Harbors Manifest Addendum

Generator ID Number:		Sales Order Number:
NYD986932457	015220813FLE	2006438649

Tonawanda Forge Site
2390 Kenmore Avenue
Tonawanda, NY14150

Line #	Profile No:	Profile Description:	Waste Codes:
1.	CH2115863		D005 D006 D007 D008 D010

CH Container # Customer Container #

Site Address: SAME

SC PPW 8/1/2020

WORK ORDER NO. 0068439849

DOCUMENT NO. 1425204 **STRAIGHT BILL OF LADING**

TRANSPORTER 1 Clean Harbors Environmental Services, Inc VEHICLE ID #

EPA ID # MAD053222250 TRANS. 1 PHONE (781)792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY	SHIPPER
Spring Grove Resource Recovery Inc.	Tonawanda Forge Site
FACILITY EPA ID # OHD000816629	SHIPPER EPA ID # NYD986932457
ADDRESS 4879 Spring Grove Avenue	ADDRESS 2390 Kenmore Avenue
CITY Cincinnati STATE OH ZIP 45232	CITY Tonawanda STATE NY ZIP 14150

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
55x55	DM		A. NON D. O. T. REGULATED, (WATER, ACETATE LINER)	00038	P
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Tonawanda Forge Site
A.CH21602A

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Michael G. Tomaine	AB AGENT NYSDEC	12/17/20
TRANSPORTER 1	PRINT	SIGN	DATE
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

4

CHI 107

Land Disposal Restriction
Land Disposal Restriction

Notification Form

Printed Date :Dec 17, 2020

MANIFEST INFORMATION

Generator : Tonawanda Forge Site

Address: 2390 Kenmore Avenue
Tonawanda,NY 14150

EPA ID #: NYD986932457

Manifest Tracking Info

015220813FLE

Sales Order No: 2006438649

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH2115863	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D004	Toxicity Characteristic for Arsenic
D005	Toxicity Characteristic for Barium
D006	Toxicity characteristic for Cadmium
D007	Toxicity Characteristic for Chromium
D008	Toxicity Characteristic for Lead
D010	Toxicity Characteristic for Selenium

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TOTAL PCB'S (SUM OF ALL PCB ISOMERS, OR ALL AROCHL	Y	N	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached. As Agent of NYSEC

Signature : [signature] Print Name Michael Gutmann

Title : SR. Proj Mgr Date : 12/17/20

NEW YORK STATE GENERATOR RESTRICTED WASTE NOTIFICATION/CERTIFICATION FOR PCB WASTES

ALL NEW YORK STATE GENERATORS WHO GENERATE PCB WASTE MUST ATTACH THIS ADDENDUM TO CHI FORM LDR1

(THIS NOTIFICATION/CERTIFICATION IS ONLY APPLICABLE WITHIN THE STATE OF NEW YORK)

Generator Name: Tonawanda Forge Site
EPA ID No. NYD986932457

Signature: [signature]
Date: 12/17/20

Manifest No.: ~~015220885~~ 015220813 FLE

This Addendum to CHI Form LDR1 must be completed for any New York state regulated hazardous waste generated in the State of New York. This form ensures that New York State generators comply with the notification requirements of 6 NYCRR Part 376. All New York State generators shipping PCB waste which is a New York State regulated hazardous waste must check the box and indicate the applicable waste code below.

[ ] CHECK HERE The waste associated with the above manifest includes New York State Regulated PCB Waste which is land restricted in the State of New York and is subject to 6 NYCRR Part 376.4(f). This waste shall be disposed of in accordance with 40 CFR Part 761. Pursuant to 376.4(f)(1)(i), B002 waste from any source other than a spill may not be stabilized or mixed with any other substance to conform with any provision of 40 CFR Part 761 regarding land disposal if the disposal occurs in the State of New York.

Check all which apply: [ ] B001 [ ] B002 [ ] B003 [ ] B004 [ ] B005

[ ] B006* (see below)

[✓] B007* (see below)

- **Generators are required to certify that their B006 and/or B007 waste can be land disposed in accordance with 40 CFR Part 761 without further treatment if:**

a. The waste is a B006, and is a transformer which has been drained and flushed pursuant to 40 CFR 761.60(b)(1)(i)(B), or

b. The waste is a B007 and does not contain PCBs which have been deliberately solidified.

[✓] CHECK HERE if the B006 and/or B007 waste associated with this manifest conforms to either "a" or "b"

and is intended for land disposal, and sign this form at the top of the page. In accordance with 6 NYCRR Part 376.1(g)(1)(ii) the generator makes the following certification:

"I certify under penalty of law that I personally have examined and am familiar with the waste, through analysis and testing or through knowledge of the waste, to support this certification that the waste complies with the treatment standards specified in Part 376, section 376.4 and all applicable prohibitions set forth in subdivision 376.3(b) of Part 376 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYD986932457	2. Page 1 of 2	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 013274995 FLE

5. Generator's Name and Mailing Address
[redacted]
2390 Kenmore Avenue
Tonawanda, NY 14150
Generator's Phone: (716) 923-1321

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc. — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name: US Environmental — U.S. EPA ID Number: PAR000524041

8. Designated Facility Name and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South
La Porte, TX 77571
Facility's Phone: (281) 930-2300
U.S. EPA ID Number: TXD055141378

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, (LEAD, CHROMIUM), 9, PG III	1	DM	20	K	D008 D005 D008 B
	2.			25 GB		
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 X 55 DRUM# 92776436 OSD 1-27-21

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 12 Day 13 Year 21

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: US Env 1st Prem- Signature: [illegible] Month 12 Day 13 Year 21

Transporter 2 Printed/Typed Name: Jason Campbell Signature: [illegible] Month 12 Day 13 Year 21

18. Discrepancy
18a. Discrepancy Indication Space: ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Per George Kisluk Quantity changed Manifest Reference Number: 3-30-21 EB

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] Signature: [illegible] Month 12 Day 14 Year 21

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. Clean Harbors has the appropriate permits for and will accept the waste this generator is shipping. DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM 721004 PPW

GENERATOR — TRANSPORTER(S) — DESIGNATED FACILITY

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: NYR 996932457

22. Page: 2/2

23. Manifest Tracking Number: 013274995 FLE

24. Generator's Name: Tonawanda Forge

25. Transporter 3 Company Name: Clean Harbors Environmental Services Inc. U.S. EPA ID Number: MAD039322250

26. Transporter 4 Company Name: Clean Harbors Env. Services, Inc. U.S. EPA ID Number: MAD039322250

27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
	TPO					

32. Special Handling Instructions and Additional Information

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Sheila Taylor (Agent for CHES) Signature: Sheila Taylor Month: 3 Day: 2 Year: 21

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: Andrew Tones Signature: [illegible] Month: 3 Day: 2 Year: 21

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

Clean Harbors Manifest Addendum

Generator ID Number:		Sales Order Number:
N Y D 9 8 6 9 3 2 4 5 7	013274995FLE	2100435264

Tonawanda Forge Site
2390 Kenmore Avenue
Tonawanda, NY14150

Line #:	Profile No:	Profile Description:	Waste Codes:
1.	CH2126119		D005 D006 D007 D008 D010

CH Container # Customer Container #

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Jan 26, 2021

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached. AS AGENT OF NYSDEC

Signature : _____ Print Name Michael Gilmore

Title : SR. Proj Mgr Date : 1/27/2021

Sales Order Disposal

Profile	WstCls	UOM	Qty	Cnty	DOT Shipping Name	Facility	Waste Codes	#
CH2126119	CHSI	55DM	1	US	RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, (LEAD, CHROMIUM), 9, PG III	DE Deer Park, TX Facility	B, B007, D004, D005, D006, D007, D008, D010, outs3191	1
				US	NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (LEAD, CHROMIUM), 9, PG III, (< 1LB PCB)			

Exp. Date : 1/12/2022

Waste Description : PPE, tubing used for sampling the water from the manholes

Safety, Handling, or Special Instructions: **PPE Waste Safety Data Sheet: T-1 Level C**

Total # of Drums: 1

On Site Time:

Job Owner: Michael A Scarano

Account Owner: Michael A Scarano

Sales Order Number: 2100435264

Created By:

Created Date: 1/27/2021

Customer Code: URS015	**Generator Code: TO33676**
Customer Information:	Generator Information:
AECOM 257 West Genesee StreetSuite 400 Buffalo, NY, 14202 Mr Charles Duesel **Office:** (716) 856-5636	Tonawanda Forge Site 2390 Kenmore Avenue Tonawanda, NY, 14150 **Main Contact:** Mr George Kisluk **E-Comm: NO** **Email:** **Office:** (716) 923-1321 **Cellular:** **Fax:** **EPA ID #:** NYD986932457 **State EPA ID #:**

Arrive Time: 1130	**Activity Code**	**Activity Time**	**Record Non-billableActivity Codes Only**
Depart Time: 1200			Comments:
Total Onsite Time: .5	023		CHES Equipment Failure
	037		CHES Wrong Equipment
	044		Insufficient Materials
Signature: [signature] AS AGENT OF NYSDEC			
Print Name: Michael Ausmann		Date: 1/27/2021	

NEW YORK STATE GENERATOR RESTRICTED WASTE NOTIFICATION/CERTIFICATION FOR PCB WASTES

ALL NEW YORK STATE GENERATORS WHO GENERATE PCB WASTE MUST ATTACH THIS ADDENDUM TO CHI FORM LDR1

(THIS NOTIFICATION/CERTIFICATION IS ONLY APPLICABLE WITHIN THE STATE OF NEW YORK)

Generator Name: Tonawanda Forge Site
EPA ID No. NYD981932457
Signature: [signature] AS AGENT OF NYSEC
Date: 11/27/2021

Manifest No.: 013274995 FLE

This Addendum to CHI Form LDR1 must be completed for any New York state regulated hazardous waste generated in the State of New York. This form ensures that New York State generators comply with the notification requirements of 6 NYCRR Part 376. All New York State generators shipping PCB waste which is a New York State regulated hazardous waste must check the box and indicate the applicable waste code below.

[ ] CHECK HERE The waste associated with the above manifest includes New York State Regulated PCB Waste which is land restricted in the State of New York and is subject to 6 NYCRR Part 376.4(f). This waste shall be disposed of in accordance with 40 CFR Part 761. Pursuant to 376.4(f)(1)(i), B002 waste from any source other than a spill may not be stabilized or mixed with any other substance to conform with any provision of 40 CFR Part 761 regarding land disposal if the disposal occurs in the State of New York.

Check all which apply: [ ] B001 [ ] B002 [ ] B003 [ ] B004 [ ] B005

[ ] B006* (see below)

[X] B007* (see below)

- Generators are required to certify that their B006 and/or B007 waste can be land disposed in accordance with 40 CFR Part 761 without further treatment if:

a. The waste is a B006, and is a transformer which has been drained and flushed pursuant to 40 CFR 761.60(b)(1)(i)(B), or

b. The waste is a B007 and does not contain PCBs which have been deliberately solidified.

[X] CHECK HERE if the B006 and/or B007 waste associated with this manifest conforms to either "a" or "b"

and is intended for land disposal, and sign this form at the top of the page. In accordance with 6 NYCRR Part 376.1(g)(1)(ii) the generator makes the following certification:

"I certify under penalty of law that I personally have examined and am familiar with the waste, through analysis and testing or through knowledge of the waste, to support this certification that the waste complies with the treatment standards specified in Part 376, section 376.4 and all applicable prohibitions set forth in subdivision 376.3(b) of Part 376 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-535-5053	4. Waste Tracking Number 41841

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC Region 9
270 Michigan Ave
Buffalo, NY 14203-2999
Generator's Phone: 800-287-7857

Generator's Site Address (if different than mailing address)
Tonawanda Forge
2390 Kenmore Avenue
Tonawanda, NY 14207

6. Transporter 1 Company Name: Environmental Service Group, Inc 716.695.6720 — U.S. EPA ID Number: NYD986903904

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
American Recyclers Compan
177 Wales Avenue
Tonawanda, NY 14150
Facility's Phone: 716.695.6720 — U.S. EPA ID Number: NYR000030809

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non RCRA Non DOT Regulated, (Soil Cuttings)	003	DM	300	GALS	
	Non RCRA Non DOT Regulated , -, (Ground Water)	003	DM	500	GALS	
	3.					
	4.					

13. Special Handling Instructions and Additional Information

ERG:	Approval #:	Handling Codes:	24 Hour Emergency Contact:
1 -	1 - A-19239L	1 - None	INFOTRAC (Caller Must ID
2 -	2 - B-12085IN	2 - None	ESG)
3 -	3 -	3 -	
4 -	4 -	4 -	

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: MIKE GUTMANN — Signature: AS AGENT OF NYSDEC — Month: 02 — Day: 01 — Year: 22

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: — Month: 2 — Day: 1 — Year: 22

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature — Month: 02 — Day: 01 — Year: 22

TRANSPORTER #1

APPENDIX M

ASBESTOS ANALYTICAL RESULTS

Atlas Environmental Lab, Corp.
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401
www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: AECOM
Collected by: Client
Project Name/No.: Tonawanda Forge / 60633654 Task 3.01 F
Project Address: 2390 Kenmore Ave, Tonawanda, NY 14150
Work Area:

Lab ID: BK1220306
Date Received: 12/31/2020
PLM Date Analyzed: 12/31/2020
TEM Date Analyzed: 1/4/2021
Report Date: 1/4/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG%	AII%	ASI%	PLM			TEM
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
DI-8-01A	BK1220306-1	Black Sediment - DI-8	Brown, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
DI-8-01B	BK1220306-2	Black Sediment - DI-8	Brown, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-107-01A	BK1220306-3	Black Sediment - MH-107	Brown, Homogeneous, Friable	Not Applicable			0%	~99%	**Trace (<1%)CHRY**	
MH-107-01B	BK1220306-4	Black Sediment - MH-107	Brown, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-60-1A	BK1220306-5	Black Sediment - MH-60	Grey, Homogeneous, Friable	Not Applicable			10%CELL	90%	**NAD**	
MH-60-1B	BK1220306-6	Black Sediment - MH-60	Black, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-113-1A	BK1220306-7	Black Brown Sediment - MH-113	Black, Homogeneous, Friable	Not Applicable			10%CELL	90%	**NAD**	
MH-113-1B	BK1220306-8	Black Brown Sediment - MH-113	Brown, Homogeneous, Friable	Not Applicable			15%CELL	85%	**NAD**	
MH-132-1A	BK1220306-9	Black Sediment - MH-132	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	
MH-132-1B	BK1220306-10	Black Sediment - MH-132	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	

Atlas Environmental Lab, Corp.
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401
www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: AECOM
Collected by: Client
Project Name/No.: Tonawanda Forge / 60633654 Task 3.01 F
Project Address: 2390 Kenmore Ave, Tonawanda, NY 14150
Work Area:

Lab ID: BK1220306
Date Received: 12/31/2020
PLM Date Analyzed: 12/31/2020
TEM Date Analyzed: 1/4/2021
Report Date: 1/4/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG%	AII%	ASI%	PLM			TEM
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
MH-58-1A	BK1220306-11	Black Sediment - MH-58	Grey, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-58-1B	BK1220306-12	Black Sediment - MH-58	Grey, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-108-1A	BK1220306-13	Black Sediment - MH-108	Black, Homogeneous, Non-Fibrous	67.2	10.8	21.9	0%	100%	**NAD** Inconclusive	**NAD**
MH-108-1B	BK1220306-14	Black Sediment - MH-108	Black, Homogeneous, Non-Fibrous	61.2	15.9	22.9	0%	100%	**NAD** Inconclusive	**NAD**
MH-59-1A	BK1220306-15	Black Sediment - MH-59	Grey, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-59-1B	BK1220306-16	Black Sediment - MH-59	Grey, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
BC-01-1A	BK1220306-17	Black Sediment - BC-01	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	
BC-01-1B	BK1220306-18	Black Sediment - BC-01	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	
MH-103V-1A	BK1220306-19	Black Sediment - MH-103V	Brown, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-103V-1B	BK1220306-20	Black Sediment - MH-103V	Brown, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	

Atlas Environmental Lab, Corp.
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401
www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: AECOM
Collected by: Client
Project Name/No.: Tonawanda Forge / 60633654 Task 3.01 F
Project Address: 2390 Kenmore Ave, Tonawanda, NY 14150
Work Area:

Lab ID: BK1220306
Date Received: 12/31/2020
PLM Date Analyzed: 12/31/2020
TEM Date Analyzed: 1/4/2021
Report Date: 1/4/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG%	AII%	ASI%	PLM			TEM
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
MH-64-1A	BK1220306-21	Black Sediment - MH-64	Brown, Homogeneous, Friable	Not Applicable			5%CELL	93.9%	**1.1%CHRY**	
MH-64-1B	BK1220306-22	Black Sediment - MH-64	Brown, Homogeneous, Friable	Not Applicable					**NA/PS**	
RRV-01-1A	BK1220306-23	Black Sediment - RRV-01	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	
RRV-01-1B	BK1220306-24	Black Sediment - RRV-01	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	
MH-85-1A	BK1220306-25	Black Sediment - MH-85	Grey, Homogeneous, Friable	Not Applicable			5%CELL	95%	**NAD**	
MH-85-1B	BK1220306-26	Black Sediment - MH-85	Grey, Homogeneous, Friable	Not Applicable			10%CELL	90%	**NAD**	
MH-305-1A	BK1220306-27	Black Sediment - MH-305	Grey, Homogeneous, Friable	Not Applicable			10%CELL	90%	**NAD**	
MH-305-1B	BK1220306-28	Black Sediment - MH-305	Brown, Homogeneous, Friable	Not Applicable			5%CELL 5%FBGL	90%	**NAD**	
MH-F40EV-1A	BK1220306-29	Black Sediment - MH-F40EV	Brown, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	
MH-F40EV-1B	BK1220306-30	Black Sediment - MH-F40EV	Brown, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**	

Atlas Environmental Lab, Corp.
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401
www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: AECOM
Collected by: Client
Project Name/No.: Tonawanda Forge / 60633654 Task 3.01 F
Project Address: 2390 Kenmore Ave, Tonawanda, NY 14150
Work Area:

Lab ID: BK1220306
Date Received: 12/31/2020
PLM Date Analyzed: 12/31/2020
TEM Date Analyzed: 1/4/2021
Report Date: 1/4/2021

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG%	AII%	ASI%	PLM			TEM
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type
MH-53-2-1A	BK1220306-31	Black Sediment - MH-53-2	Grey, Homogeneous, Friable	Not Applicable			5%CELL	93.9%	**1.1%CHRY**	
MH-53-2-1B	BK1220306-32	Black Sediment - MH-53-2	Grey, Homogeneous, Friable	Not Applicable					**NA/PS**	

MG

Quantitative Analysis (Semi/Full):Bulk Asbestos Analysis-PLM by EPA 600/M4-82-020 per 40 CFR or ELAP198.1 (friable) and 198.6 (NOB) samples for New York.

NAD=no asbestos detected, NA/PS=Not Analyzed/Positive Stop, Trace=<1%,FBGL=Fiberglass, CELL=Cellulose,CHRY=Chrysotile,Amo=Amosite,CRO=Crocidolite,ANTH=Anthophylite, TRE=Tremolite, ACT=Actinolite, NA=not applicable.

PLM is not consistently reliable in detecting Asbestos in floor coverings and similar non friable organically bound materials. NAD or Trace results by PLM are inconclusive.

TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos containing in NY State.

All samples were prepared and analyzed in accordance with the EPA "TEM Method for Identifying and Quantifying Asbestos in Non-Fibrous Organically Bound Bulk Samples" ELAP 198.4".

ORG%=Ashed Organic%, AII= Acid Insoluble Inorganic%, ASI= Acid Soluble Inorganic%

This "Summary of Analytical Results "shall not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, ELAP or any agency of the U.S Government. The results relate only to the items tested. This report may not be reproduced, except in full, without the written approval of AEL .Atlas Environmental lab did not collect the analyzed samples and thus accepts no liability with regard to their collection and/or maintenance . AEL relies on client's data. The liability of Atlas Environmental Lab corp with respect to the services charged, shall in no event exceed the amount of the invoice.

NYS-ELAP#11999, NVLAP Lab Code: 500092-0, NJ ID: NY034, PA ID: 68-05662, CT Reg. ID: PH-0154

PLM Analyst: DK TEM Analyst: VR Approved by:

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

AECOM

Page 1 of 3
Date: 12/21/20

Client: NYSDEC
Project: Tonawanda Forge
Building Location: 2390 Kenmore Ave., Tonawanda, NY 14150
Sampler: David Cofield at (716) 818-1592
E-Mail Results to: david.cofield@aecom.com
Mail Report to: AECOM, 257 West Genesee Street, Suite 400, Buffalo, NY 14202-2657

BK1220306

PO / Project Number: 60633654 Task 3.01 F
Turnaround Requested:
- RUSH/ Immediate
- 24 Hour
- X 48 Hour
- 5 Day
- 1-week

Please Send Invoice Electronically To:
Transcepta
With Mike Gutmann listed as the PM

	Sample Number	Material Description	Material ID	Sample Location	Laboratory Results PLM	Laboratory Results TEM
1	DI-8-01 A	BLACK SEDIMENT	DI-8-01	DI-8		
2	" B	" "	↓	"		
3	MH-107-01 A	BLACK SEDIMENT	MH-107-02	MH-107		
4	" B	" "	↓	"		
5	MH-60-1A	BLACK SEDIMENT	MH-60-03	MH-60		
6	" B	" "	↓	"		
7	MH-113-1A	BROWN BLACK SEDIMENT	MH-113-04	MH-113		
8	" B	" "	↓	"		
9	MH-132-1A	BLACK SEDIMENT	MH-132-05	MH-132		
10	" B	" "	↓	"		
11	MH-58-1A	BLACK SEDIMENT	MH-58-06	MH-58-		
12	" B	" "	↓	"		

Sampled By: DAVID COFIELD JR Date: 12/30/20 Time:
Received By: FRANK C. Date: 12/31/20 Time: 11:20 AM
Relinquished By: DAVID COFIELD JR Date: 12/30/20 Time:
Received By: Date: Time:

Comments: In the event that the PLM analysis produced a negative result on a NOB bulk sample, that sample will be re-analyzed using TEM. If a material is found to be positive, do not analyze additional samples of the same material (i.e. positive stop).

PLM Analyst [signature] 12/31/2020 20:40

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

AECOM

Date: 12/30/20

Client: NYSDEC
Project: Tonawanda Forge
Building Location: 2390 Kenmore Ave., Tonawanda, NY 14150
Sampler: David Cofield at (716) 818-1592
E-Mail Results to: david.cofield@aecom.com
Mail Report to: AECOM, 257 West Genesee Street, Suite 400, Buffalo, NY 14202-2657

PO / Project Number: 60633654 Task 3.01 F
Turnaround Requested:
- RUSH/ Immediate
- 24 Hour
- X 48 Hour
- 5 Day
- 1-week

Please Send Invoice Electronically To: Transcepta
With Mike Gutmann listed as the PM

	Sample Number	Material Description	Material ID	Sample Location	Laboratory Results PLM	Laboratory Results TEM
13	MH-108- 1A	BLACK SEDIMENT	MH-108-07	MH-108		
14	" 1B	" "	↓			
15	MH-59- 1A	BLACK SEDIMENT	MH-59-08	MH-59		
16	" 1B	" "	↓			
17	BC-01-1A	BLACK SEDIMENT	BC-01-09	BC-01		
18	" 1B	" "	↓			
19	MH-103V-1A	BLACK SEDIMENT	MH-103V-10	MH-103V		
20	" 1B	" "	↓			
21	MH-64- 1A	BLACK SEDIMENT	MH-64-11	MH-64		
22	" 1B	" "	↓			
23	RRV-01- 1A	BLACK SEDIMENT	RRV-01-12	RRV-01		
24	" 1B	" "	↓			

Sampled By: David Cofield IV Date: 12/30/20 Time:
Relinquished By: David Cofield IV Date: 12/30/20 Time:
Received By: Tiffany C. Date: 12/31/20 Time: 11:20AM
Received By: Date: Time:

Comments: In the event that the PLM analysis produced a negative result on a NOB bulk sample, that sample will be re-analyzed using TEM. If a material is found to be positive, do not analyze additional samples of the same material (i.e. positive stop).

PLM Analyst - [illegible] 10. Kogan 12/30/2020

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

AECOM

Page 3 of 3

Date: 12/30/20

Client: NYSDEC

Project: Tonawanda Forge

Building Location: 2390 Kenmore Ave., Tonawanda, NY 14150

Sampler: David Cofield at (716) 818-1592

E-Mail Results to: david.cofield@aecom.com

Mail Report to: AECOM, 257 West Genesee Street, Suite 400, Buffalo, NY 14202-2657

PO / Project Number: 60633654 Task 3.01 F

Turnaround Requested:

- RUSH/ Immediate
- 24 Hour
- X 48 Hour
- 5 Day
- 1-week

Please Send Invoice Electronically To: Transcepta
With Mike Gutmann listed as the PM

Sample Number	Material Description	Material ID	Sample Location	Laboratory Results	
				PLM	TEM
MH-85-1A	BLACK SEDIMENT	MH-85-12	MH-85		
" 1B	" "	↓			
MH-305-1A	BLACK SEDIMENT	MH-305-13	MH-305-		
" 1B	" "	↓			
MH-F40EV-1A	BLACK SEDIMENT	MH-F40EV-14	MH-F40EV		
" 1B	" "	↓			
MH-53-2-1A	BLACK SEDIMENT	MH-53-2-15	MH-53-2		
" 1B	" "	↓			

Sampled By: DAVID COFIELD JR Date: 12/30/20 Time:

Received By: Tiffany C. Date: 12/31/20 Time: 11:20AM

Relinquished By: DAVID COFIELD JR Date: 12/30/20 Time:

Received By: Date: Time:

Comments: In the event that the PLM analysis produced a negative result on a NOB bulk sample, that sample will be re-analyzed using TEM. If a material is found to be positive, do not analyze additional samples of the same material (i.e. positive stop).

PLM Analyst - R Thorp D Hagen 12/31/2020 20:44

EMSL Analytical, Inc.
490 Rowley Road Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com / buffalolab@emsl.com

EMSL Order ID: 142005132
Customer ID: URSG50
Customer PO: 60633654.3.01F
Project ID:

Attn: George Kisluk
AECOM
257 West Genesee St, Suite 400
Buffalo, NY 14202

Phone: (716) 856-5636
Fax: (716) 856-2545
Received: 12/30/2020
Analyzed: 01/06/2021

Proj: 60633654.3.01F / Tonawanda Forge

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
DI-8-SW 142005132-0001	12/30/2020 04:55 PM	50	1288	0.1330	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/21/2020 13:15 PM*								
MH-017-SW 142005132-0002	12/30/2020 05:05 PM	10	1288	0.2660	None Detected	ND	0.48	<0.48	0.00 - 1.80
Collection Date/Time:	*12/21/2020 14:50 PM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									
MH-60-SW 142005132-0003	12/30/2020 05:13 PM	25	1288	0.2660	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/22/2020 12:50 PM*								
MH-113-SW 142005132-0004	12/30/2020 05:15 PM	10	1288	0.2660	None Detected	ND	0.48	<0.48	0.00 - 1.80
Collection Date/Time:	*12/22/2020 14:30 PM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									

Analyst(s)
Mark Tate (16)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

Any questions please contact Rhonda McGee.

Initial report from: 01/13/2021 12:19:11

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

EMSL Analytical, Inc.
490 Rowley Road Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com / buffalolab@emsl.com

EMSL Order ID: 142005132
Customer ID: URSG50
Customer PO: 60633654.3.01F
Project ID:

Attn: George Kisluk
AECOM
257 West Genesee St, Suite 400
Buffalo, NY 14202

Phone: (716) 856-5636
Fax: (716) 856-2545
Received: 12/30/2020
Analyzed: 01/06/2021

Proj: 60633654.3.01F / Tonawanda Forge

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID / Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS: Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
MH132-SW 142005132-0005	12/30/2020 05:19 PM	3	1288	0.2660	None Detected	ND	1.60	<1.60	0.00 - 6.00
Collection Date/Time:	*12/22/2020 15:45 PM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									
MH-58-SW 142005132-0006	12/30/2020 05:24 PM	25	1288	0.2660	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/23/2020*								
MH-108-SW 142005132-0007	12/30/2020 05:29 PM	25	1288	0.2660	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/23/2020*								
MH-59-SW 142005132-0008	12/30/2020 05:36 PM	25	1288	0.2660	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/23/2020*								
MH-103V-SW 142005132-0009	12/30/2020 05:58 PM	1	1288	0.2660	None Detected	ND	4.80	<4.80	0.00 - 18.00
Collection Date/Time:	*12/28/2020 12:15 PM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									

Analyst(s)
Mark Tate (16)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

Any questions please contact Rhonda McGee.

Initial report from: 01/13/2021 12:19:11

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

EMSL Analytical, Inc.
490 Rowley Road Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com / buffalolab@emsl.com

EMSL Order ID: 142005132
Customer ID: URSG50
Customer PO: 60633654.3.01F
Project ID:

Attn: George Kisluk
AECOM
257 West Genesee St, Suite 400
Buffalo, NY 14202

Phone: (716) 856-5636
Fax: (716) 856-2545
Received: 12/30/2020
Analyzed: 01/06/2021

Proj: 60633654.3.01F / Tonawanda Forge

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID / Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS: Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
MH-53-2-SW 142005132-0010	12/30/2020 06:07 PM	10	1288	0.2660	None Detected	ND	0.48	<0.48	0.00 - 1.80
Collection Date/Time:	*12/28/2020 13:30 PM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									
MH-64-SW 142005132-0011	12/30/2020 06:12 PM	25	1288	0.2660	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/29/2020 09:05 AM*								
RRV-01-SW 142005132-0012	12/30/2020 06:27 PM	100	1288	0.0665	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/29/2020 10:30 AM*								
MH-85-SW 142005132-0013	12/30/2020 06:34 PM	50	1288	0.1330	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*12/29/2020 12:40 PM*								
BC-01-SW 142005132-0014	12/30/2020 06:45 PM	15	1288	0.2660	None Detected	ND	0.32	<0.32	0.00 - 1.20
Collection Date/Time:	*12/29/2020 13:30 PM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									

Analyst(s)
Mark Tate (16)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

Any questions please contact Rhonda McGee.

Initial report from: 01/13/2021 12:19:11

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

EMSL Analytical, Inc.
490 Rowley Road Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com / buffalolab@emsl.com

EMSL Order ID: 142005132
Customer ID: URSG50
Customer PO: 60633654.3.01F
Project ID:

Attn: George Kisluk
AECOM
257 West Genesee St, Suite 400
Buffalo, NY 14202

Phone: (716) 856-5636
Fax: (716) 856-2545
Received: 12/30/2020
Analyzed: 01/06/2021

Proj: 60633654.3.01F / Tonawanda Forge

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID / Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS: Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
								MFL (million fibers per liter)	
MH-305-SW 142005132-0015	12/30/2020 06:51 PM	5	1288	0.2660	None Detected	ND	0.97	<0.97	0.00 - 3.60
Collection Date/Time:	*12/30/2020 09:00 AM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									
MH-F40EV-SW 142005132-0016	12/30/2020 06:56 PM	10	1288	0.2660	None Detected	ND	0.48	<0.48	0.00 - 1.80
Collection Date/Time:	*12/30/2020 10:20 AM*								
Due to the excessive particulate, the analytical sensitivity as required by the method was not reached									

Samples 1 thru 10 were received after 48 hour holding time. Analyzed at client's request.

Analyst(s)
Mark Tate (16)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

Any questions please contact Rhonda McGee.

Initial report from: 01/13/2021 12:19:11

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

142005132

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO. 60633654.3.01F

SITE NAME Tonawanda Forge

SAMPLERS (PRINT/SIGNATURE) David Cofield Jr

LAB EMSL

COOLER 1 of 1

PAGE 1 of 3

DELIVERY SERVICE: DROP OFF AIRBILL NO.: N/A

TESTS: USEPA 100.2 Long Fibers >10 Microns only

BOTTLE TYPE AND PRESERVATIVE: 1 Liter Plastic

2 wks TAT

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
DI-8	12/21/20	1315	G	DI-8-SW	WS	1	5.1	NI			
							4.1				
MH-107	12/21/20	1450	G	MH-107-SW	WS	1	4.6	NI			
							4.0				
MH-60	12/22/20	1250	G	MH-60-SW	WS	1	3.8	NI			
			G		~~WS~~	~~1~~	4.0	~~NI~~			
MH-113	12/22/20	1430	G	MH-113-SW	WS	1	4.0	NI			
			G		~~WS~~	~~1~~		~~NI~~			
MH-132	12/22/20	1545	G	MH-132-SW	WS	1	3.8	NI			
MH-58	12/23/20		G	MH-58-SW	WS	1	4.0	NI			
MH-108	12/23/20		G	MH-108-SW	WS	1	3.6	NI			

12/30/20 2

12/30/20 4.1

RECEIVED DEC 30 2020 BY: 4:11pm WI

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES				
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
David Cofield Jr	12/30/20	1530			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Call George Kisluk

716 341-0800 / 716 823-1321

David Cofield Jr 716 818-1592

Distribution: Original accompanies shipment, copy to coordinator field files

OrderID: 142005132

142005132

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO. 60633654 3,01F

SITE NAME Tonawanda Forge

SAMPLERS (PRINT/SIGNATURE) David Cofield Jr David Cofield Jr

LAB EMSL

COOLER 1 of 1

PAGE 2 of 3

DELIVERY SERVICE: DROP OFF AIRBILL NO.: N/A

TESTS: USEPA 100.2 Long Fibers >10 microns only

BOTTLE TYPE AND PRESERVATIVE: 1 Liter Plastic →

2wk TAT

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS		REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
MH-59	12/23/20		G	MH-59-SW	WS	1	1	3.2	N			
MH-103V	12/28/20	1215	G	MH-103V-SW	WS	1	1	8.1	N			
MH-53-2	12/28/20	1230	G	MH-53-2-SW	WS	1	1	7.9	N			
MH-64-	12/29/20	0905	G	MH-64-SW	WS	1	1	7.6	N			
RRV-01	12/29/20	1030	G	RRV-01-SW	WS	1	1	7.1	N			
MH-85	12/29/20	1240	G	MH-85-SW	WS	1	1	7.6	N			
BC-01	12/29/20	1330	G	BC-01-SW	WS	1	1	7.6	N			

RECEIVED DEC 30 2020 BY: William WI

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES			
TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
David Cofield Jr	12/30/20	1530			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
CALL GEORGE KISLUCK @ 716 341-0800 / 716 923-1324
DAVID COFIELD JR 716 818-1592

Distribution: Original accompanies shipment, copy to coordinator field files

OrderID: 142005132

142005132

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO. 60633654.3.01F

SITE NAME Tonawanda Forge

SAMPLERS (PRINT/SIGNATURE) David Cofield Jr

LAB EMSL

COOLER 1 of 1

PAGE 3 of 3

DELIVERY SERVICE: Drop off AIRBILL NO.: N/A

TESTS: USEPA 100.2 Long Fibers only X

BOTTLE TYPE AND PRESERVATIVE: 1 Liter plastic →

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
MH-305	12/30/20	0900	G	MH-305-SW	WS	1	6.9	N1			
MH-F40EV	12/30/20	1020	G	MH-F40EV-SW	WS	1	7.6	N1			

2 WK TAT

RECEIVED
DEC 30 2020
BY:
4:11pm WF

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
David Cofield Jr	12/30/20	1530			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Call David Cofield Jr @ 716 818-1592 or 716 923-1330

Distribution: Original accompanies shipment, copy to coordinator field files

OrderID: 142005132