
Former Clinton County Airport Lot A, D and J Industrial Boulevard Plattsburgh, NY 12901

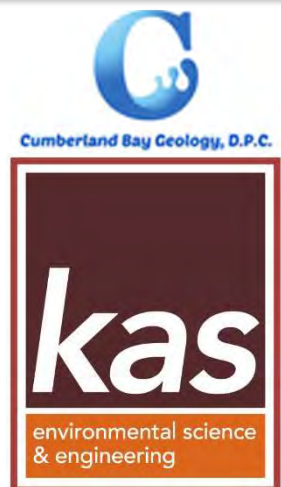
KAS Project #508215230

REVISED SOIL AND GROUNDWATER MANAGEMENT PLAN

April 20, 2022; Revised June 17, 2022

Prepared for:

Clinton County
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Plattsburgh, New York 12901



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Table of Contents

1.0	Introduction	2
2.0	Site Background.....	2
3.0	Soil Management	6
4.0	Groundwater Management.....	6
5.0	Permitting, Approvals, and Reporting	7
5.1	<i>Soil and Groundwater Management Plan.....</i>	<i>8</i>
5.2	<i>Health and Safety Plan (HASP).....</i>	<i>8</i>
5.3	<i>Community Air Monitoring Plan (CAMP).....</i>	<i>8</i>
5.4	<i>Permits/Approvals.....</i>	<i>8</i>
5.5	<i>Reporting.....</i>	<i>8</i>
5.6	<i>Implementation</i>	<i>8</i>

Appendices

Appendix A	1) Site Location Map
	2) Site Map
	3) Cut/Fill Plan for Lot D
Appendix B	Phase II Environmental Site Assessment
Appendix C	Pre-Characterization Assessment Report
Appendix D	Site Characterization Report – Stage 1



1.0 Introduction

KAS, Inc. (KAS) has prepared this Revised Soil and Groundwater Management Plan to be implemented during redevelopment activities at Lot A, D and J on the former Clinton County Airport in Plattsburgh, New York (Site). A Site Location Map and Overall Site Plan is provided in Appendix A. KAS originally prepared a Soil and Groundwater Management Plan, dated April 20, 2022 and submitted to New York State Department of Environmental Conservation (NYSDEC) on April 25, 2022, to address potential soil and groundwater impacts on Lot A, D and J while the Site Characterization investigation was on-going. The Soil and Groundwater Management Plan was approved by NYSDEC on April 28, 2022. Since that approval of the plan, Stage 1 of the Site Characterization investigation has been completed and a summary report dated May 27, 2022 has been submitted to NYSDEC.

The planned construction activities for Lot A, D and J have not changed. Soil and groundwater disturbance is planned at Lot A and J during the excavation/trenching associated with the installation of underground utilities and a pump station. Lot D will consist of the development of a 256,811 square foot warehouse/distribution building with minimal disturbance of soils/groundwater. A current cut/fill map for Lot D has been included in Appendix A. It should be noted that the previously conducted Pre-Characterization Assessment, which is discussed in Section 2.0 and included in Appendix C, had a previous version of the cut/fill map, which included more soil/groundwater disturbance than is currently anticipated.

The Site Characterization of Lot A, D and J did not identify any contaminants above the NYSDEC Soil Cleanup Objectives (SCOs) – Unrestricted Use standard with the exception of Acetone in two soil borings. It was concluded that Acetone is a common laboratory contaminant and the detections are likely associated with the laboratory and not impacts on the Site. A copy of the Site Characterization Report (Stage 1) has been included in Appendix D. Given the favorable results, KAS has revised the Soil and Groundwater Management Plan to reduce the requirements for specialized handling of soils on the Site. It should be noted that, as the Site Characterization did not include groundwater, the special handling required for groundwater will remain in place as outlined in the previously approved Soil and Groundwater Management Plan.

A revision to this plan was requested by the NYSDEC in a letter dated June 14, 2022. The revision will be based on the findings of the Site Characterization Report - Stage 1 dated May 27, 2022, prepared by KAS.

2.0 Site Background

The Site is located on a portion of the former Clinton County Airport in the Town of Plattsburgh. The groundwater flow direction beneath the Site is anticipated to be toward the Saranac River, which is located approximately 1,000-feet to the south. The Saranac River, located proximate to the Site (Lower, Main Stem – Segment ID 1003-0049¹), is a Class C (fishing and non-contact activities) water body pursuant to 6 NYCRR Parts 700-705. The Site can be accessed from an access road that connects to Industrial Boulevard to the north.

¹ <https://www.dec.ny.gov/data/WQP/PWL/1003-0049.html?req=19981>

Currently, the planned redevelopment activities for the Site consist of installation/construction of a road/underground utilities and a warehouse (light industrial) building. Findings of the investigation will be taken into consideration for other development and any potential limitations that may need to be implemented.

KAS previously completed a Phase I ESA (per ASTM E1527-13) for a portion of the Site (Lot D) dated September 20, 2021. The Site is currently a portion of a vacant airport. Based on review of available historical aerials and topographic maps of the site it appears that the former airport has been developed since at least 1944 and was farmland prior to this use. The past use of the Site and surrounding areas as an airport is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA), which are Per- and Polyfluoroalkyl Substances (PFAS) compounds. PFAS are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Fluoropolymer coatings can be in a variety of products. These include clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, and the insulation of electrical wire.² Additionally, PFAS are known to have been used in firefighting foam and various other products. It is unknown if a release has occurred due to the past use as a former airport but it is important to note the known presence of PFOS and PFOA, which are emerging contaminants by the United States Environmental Protection Agency (USEPA) and NYSDEC. Under the current ASTM standard, the potential past use of PFOS/PFOAs are not considered to represent a recognized environmental condition (REC). The current ASTM standard defines a hazardous substance as, "a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts: (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended." At the time of the Phase I ESA, PFOS/PFOAs were not CERCLA or RCRA listed hazardous substances. KAS considered the lack of data associated with PFOS and PFOAs to be a data gap and that additional investigation would be necessary to determine if they are present in the subsurface.

KAS completed a Phase II ESA on December 10, 2021 to address the data gap that was identified following the completion of the Phase I ESA (ASTM E1527-13) for Lot D on September 20, 2021. The findings of the Phase II ESA indicated that there were several low-level detections of PFAS in all five (5) groundwater samples collected as well as detections of PFOA and PFOS above the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater. The Phase I and II ESAs are included in Appendix B.

In preparation for future redevelopment on Lot D, KAS conducted a pre-characterization investigation of saturated soils. KAS oversaw the advancement of a total of twenty (20) test pits to a maximum of 4 to 8 feet below ground surface (bgs). The test pits were advanced in areas where saturated soils may be encountered during redevelopment activities based on a cut/fill grading plan provided by Architectural & Engineering Design Associates, P.C. (AEDA). The test pits were grouped into four (4) distinct areas with five (5) test pits per area. Soils from the five (5) test pits within an area were composited into one (1) sample for laboratory analysis.

² https://www.cdc.gov/biomonitoring/PFAS_FactSheet.html



KAS collected a total of four (4) soil samples, one (1) from each area, and one (1) duplicate sample. There were several detections of PFAS in the soil samples but none of the samples had exceedances of PFAS based on Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs.

On February 24, 2022, Mr. Michael Zurlo, Clinton County Administrator, received a letter from the NYSDEC about a "Potential Hazardous Waste Disposal Site" for the following location:

Site Name: Former Clinton County Airport
Site Address: 11 Airport Road, Town of Plattsburgh, Clinton County, NY 12901
DEC Site No.: 510026
Tax Map Identifier: Section 220; Block 1; Lot 3; Sublot 1; Suffix 1

The letter stated, "If DEC determines that hazardous waste has been disposed of on the property and that the hazardous waste poses a significant threat to public health or the environment, the property will be listed on the Registry of Inactive Hazardous Waste Disposal Sites (Registry)." Subsequently, Clinton County has retained Barton & Loguidice, D.P.C. (B&L) to consult on their behalf and to perform/manage any investigation required by the NYSDEC to determine the extent, if any, of PFAS impacts. In a subsequent conference call with NYSDEC, Clinton County officials, AEDA, B&L, Jones Development (developer of Lot D) and KAS, it was indicated that a phased (staged) approach to the investigation was acceptable with a focus on planned redevelopment activities first with a subsequent investigation to follow. Based on this guidance and the work already conducted by KAS on Lot D, B&L and Clinton County has subcontracted KAS to complete this work plan and site characterization. A Site Characterization Work Plan was submitted on March 21, 2022 and NYSDEC provided comments in a letter dated March 29, 2022.

On April 4, 2022, NYSDEC representatives Mr. Brian Huyck and Ms. Kaleigh Zappia met with Mr. Mike Zurlo (Clinton County), Ms. Molly Ryan (Clinton County), Mr. Bryce Dingman (B&L), Mr. Ryan Weitz (B&L), Mr. Jim Abdallah (AEDA), Mr. Aaron Roth (KAS), and Mr. Anthony Harvey (KAS) to discuss the objectives of the work plan and the stages of the investigation to be performed as outlined in the Order on Consent and Administrative Settlement (Index No. CO 5-20220314-16). As part of the discussion, Mr. Huyck indicated that a soil and groundwater management plan could be prepared and reviewed by NYSDEC simultaneously to the revised site characterization work plan to allow for redevelopment activities to occur in accordance with the planned timeframe. The Soil and Groundwater Management Plan was prepared by KAS and dated April 20, 2022. The plan was submitted to NYSDEC on April 25, 2022 and approved on April 28, 2022.

Since the Soil and Groundwater Management Plan approval, KAS completed the Site Characterization (Stage 1) and has submitted a summary report, dated May 27, 2022, to the NYSDEC. The Site Characterization Report presented the following findings:

1. A total of twenty-eight (28) soil borings were advanced into the water table (saturated soils) to depths ranging from 4 to 12 feet below ground surface (bgs) with groundwater encountered between 2.5 to 6.0 feet bgs. Soil samples were collected for laboratory analysis from each boring (28 total) at the soil/groundwater interface for PFAS. Additionally, eight (8) surface soil samples were collected from select borings and analyzed for PFAS, Target Compound List (TCL), Target Analyte List (TAL), cyanide and

- eleven (11) of the soil samples collected at the soil/groundwater interface were submitted and analyzed for TCL, TAL and cyanide;
2. Field measurements (photoionization detector (PID) readings of soils for volatile organic compounds (VOCs)) and observations (visual and olfactory) did not identify any obvious signs of subsurface impacts;
 3. Low level detections of various PFAS were identified in sixteen (16) of the thirty-seven (37) soil samples (including the duplicate sample). The total PFAS concentrations that were identified ranged from 0.031 nanograms per gram (ng/g) or parts per billion (ppb) to 5.25 ng/g (ppb). Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) results were compared to the June 2021 Sampling, Analysis, and Assessment of PFAS and found to be below Unrestricted soil cleanup guidance values except for a detection of PFOS (1.88 ng/g (ppb)) in the SB-3 (0-2') sample location above the unrestricted use standard. This detection was below residential and commercial standards;
 4. Two of the soil samples (SB-8 and SB-24), were analyzed for PFAS by Methods 537.1 and SPLP. The SPLP method determines the leachate potential and is a modified groundwater analysis that can have more sensitive detection limits. When comparing these results, SB-8 had no detections of PFAS using the 537.1 Method, but had a total PFAS concentration of 39.385 ng/L using the SPLP method. The SB-24 sample was also non-detect for PFAS using the 537.1 Method and had a total PFAS concentration of 5.270 ng/L using the SPLP method. When the PFAS results are compared to 70 ppt, which is the guidance value provided by NYSDEC to evaluate "the extent of soil contamination for purposes of delineation and remedy selection" in the Sampling, Analysis and Assessment of PFAS, neither detection in SB-8 or SB-24 exceeded this value. However, NYSDEC also requested that the SPLP concentrations be compared to 10 ppt, which is a drinking water standard and not considered representative as the SPLP analysis is considered theoretical. When compared to 10 ppt, the SB-8 soil results exceed this value. Groundwater will be evaluated in the future investigation for the Site; and,
 5. The majority TCL, TAL and cyanide samples analyzed were non-detect. The samples with detections had detections below the NYSDEC Soil Cleanup Objectives (SCO) – Unrestricted Use Standards with the exception of two samples (SB-5 and SB-6), which had detections of Acetone that exceed the NYSDEC SCO – Unrestricted Use Standard. However, Acetone is a common laboratory contaminant and in KAS' professional judgment it is likely the laboratory contamination is the cause of the detection of Acetone. The detection also had a qualifier note that it was an estimated value by the laboratory.

Based on the findings, KAS presented the following recommendations in the Site Characterization Report:

- No additional site characterization work associated with soils on Lot A, D and J appears warranted;
- The Soil and Groundwater Management Plan should be modified to address these findings of this report;
- A copy of this report must be provided to the NYSDEC; and,
- If conditions are encountered during planned redevelopment activities on Lot A, D and J that differ from those identified in this report, an environmental professional should be contacted to assess the soils to ensure proper handling.

3.0 Soil Management

Based on the findings of the Site Characterization (Stage 1), this section has been modified to reflect the fact that surface and subsurface soils were below NYSDEC SCO - Unrestricted Use Standards, with the exception of the previously discussed Acetone that was considered a laboratory contaminant and a PFOS exceedance above unrestricted use standards in location SB-3 on Lot A. Procedures have been included should the contractor encounter unanticipated isolated impacts during redevelopment activities.

The following activities will be implemented for soil disturbance that occurs on Lot A, D and J:

- Surface and subsurface soils can be re-used on-site or removed from the Site as clean fill except for an isolated area of Lot A (proximate to location SB-3), where there was a surficial exceedance (0 – 2 feet below ground surface) of PFOS above the unrestricted use standard. This detection however was below the residential and commercial standards. Soils in the immediate area of SB-3 will be staged on poly and evaluated for final use or disposal in accordance with NYSDEC guidance. As requested, end point samples will be coordinated with NYSDEC and collected as necessary;
- If soil impacts are encountered that are not consistent with the Site Characterization Report, the contractor must alert the owner and the NYSDEC Spill Hotline (1-800-457-7362) must be contacted within two hours of discovery. Additionally, the contractor must contact the owner/developer's environmental consultant for further assessment;
- Impacted soils, if encountered, must be placed on and covered with a minimum of 6-mil poly. Care must be taken to overlap the bottom 6-mil poly with the cover to prevent impacted soils or impacted groundwater from running off the poly. This is considered a temporary stockpile and whether the soils can be re-used onsite or require disposal will be dictated by laboratory analysis in consultation with NYSDEC; and,
- If impacted soils are encountered, additional procedures including 40-hour OSHA HAZWOPER training, decontamination of excavating/grading equipment and sampling will be required consistent with the previously approved Soil and Groundwater Management Plan.

4.0 Groundwater Management

The following are groundwater management activities to address potential groundwater impacts that may be encountered during redevelopment activities. If dewatering activities are not required for this project, no additional groundwater management activities are required.

Based on the proposed development, the most likely work requiring dewatering activities will be the pump station on Lot J. The following procedures must be followed for water generated by dewatering activities of the groundwater:

- A Health and Safety Plan (HASP) consistent with OSHA requirements must be prepared prior to commencement of on-site activities. This will include the need for any

operators and/or personnel interfacing with impacted groundwater be a minimum of 40-hour OSHA HAZWOPER trained;

- Pumping/dewatering of groundwater should be minimized to the maximum extent possible. Potentially impacted groundwater not being encountered or dewatered by on-site activities does not require special handling procedures or remediation;
- If dewatering is needed, groundwater must be pumped into a frac tank or tanks and then through a sediment filter and a minimum of two carbon vessels. The sediment filter and carbon treatment will address the potential impacts and it is required that multiple, properly sized, carbon vessels be used with sampling ports pre-, between vessels and post-vessels to monitor. The sizing of the frac tanks and carbon vessels will depend on required flow for dewatering activities. Upon confirmation that treated water is below guidance values (outlined in bullets below), water will be discharged to pervious surface. It is anticipated that dewatering will occur for approximately 4-6 weeks;
- Prior to initial discharge of generated groundwater from dewatering activities, a pre-, between carbon vessel and post-carbon vessel sample will be collected for analysis of TCL, TAL, cyanide and PFAS. Samples will be analyzed by a New York State ELAP-certified laboratory in accordance with approved New York State analytical methods;
- Sampling of the pre-, between carbon vessel and post-carbon vessel will be conducted every 7,000 gallons or weekly, whichever is more frequent. If breakthrough of PFOS/PFAS is detected above the NYSDEC guidance value then the post-carbon vessel sample will be analyzed;
- Analytes not identified in the pre-treatment (raw water) for two successive sampling events from a given location will be grounds to petition a reduction of analytes, which will be approved by NYSDEC prior to reducing. It should be noted that if the location of dewatering changes, then all parameters must be analyzed;
- The first treatment carbon vessel will be replaced or replenished upon detection of a contaminant above the NYSDEC guidance value; and,
- If breakthrough of a contaminant is detected in the post-treatment sample, both treatment carbon vessels will require replacement or replenishment prior to continuing to discharge.

The carbon media is required to be properly disposed upon completion of the project and proper documentation will be provided to NYSDEC. Attention must be paid that equipment used for dewatering does not introduce additional impacts. Equipment used for dewatering should be properly decontaminated after use and prior to leaving the Site. Sample results upon receipt will be provided to NYSDEC and a summary report will be completed with laboratory results, a summary of field observations, and disposal records for the carbon media.

5.0 Permitting, Approvals, and Reporting

Approvals and permits are required prior to commencement of construction. Follow up reporting will be needed to document that the potentially impacted soils and groundwater, if encountered, were managed appropriately. The contractor will be responsible for obtaining all local/state permits and approvals.

5.1 Soil and Groundwater Management Plan

The Soil and Groundwater Management Plan, once reviewed by the client, must be provided to NYSDEC for approval prior to commencement of activities.

5.2 Health and Safety Plan (HASP)

Regarding matters of worker safety and OSHA requirements, contractors are responsible for establishing and following their own Site-specific health and safety plan.

Should impacted soil or groundwater be encountered, excavation activities must be conducted by personnel with hazardous sites training as prescribed by OSHA 1910.120. The excavation contractor must possess training certificates as well as required annual update certificates for all personnel involved with the excavation activities. A site-specific HASP must be prepared and implemented to govern the safety aspects of the subsurface investigation in accordance with the OSHA requirements. A copy of the HASP must be kept on the property and made available to other parties at any time requested.

5.3 Community Air Monitoring Plan (CAMP)

Given the results of the Site Characterization of Lot A, D and J, a CAMP is no longer required.

5.4 Permits/Approvals

Approvals are required prior to disposal of soil and/or groundwater at the landfill and/or wastewater treatment plant. In general, waste profiles are required with adequate laboratory results to obtain these approvals. All transport must be conducted by NYSDOT and NYSDEC licensed/permitted haulers. If impacted soils are left on-site, both engineering and institutional controls will need to be evaluated.

5.5 Reporting

Final reporting of the management of potentially impacted soils and groundwater will be completed by either the client or the client's environmental consultant. The report should include the following points:

- Documentation of all required approvals;
- Dates of excavation of impacted soils and/or dewatering activities;
- Laboratory results (initially provided to NYSDEC and summarized in the report);
- Locations of impacted soils, if above regulatory requirements for imported fill and documentation of these soils in an environmental easement for approval by NYSDEC; and,
- Quantities of impacted soils disposed of via weight slips, if applicable and estimated quantity of groundwater.

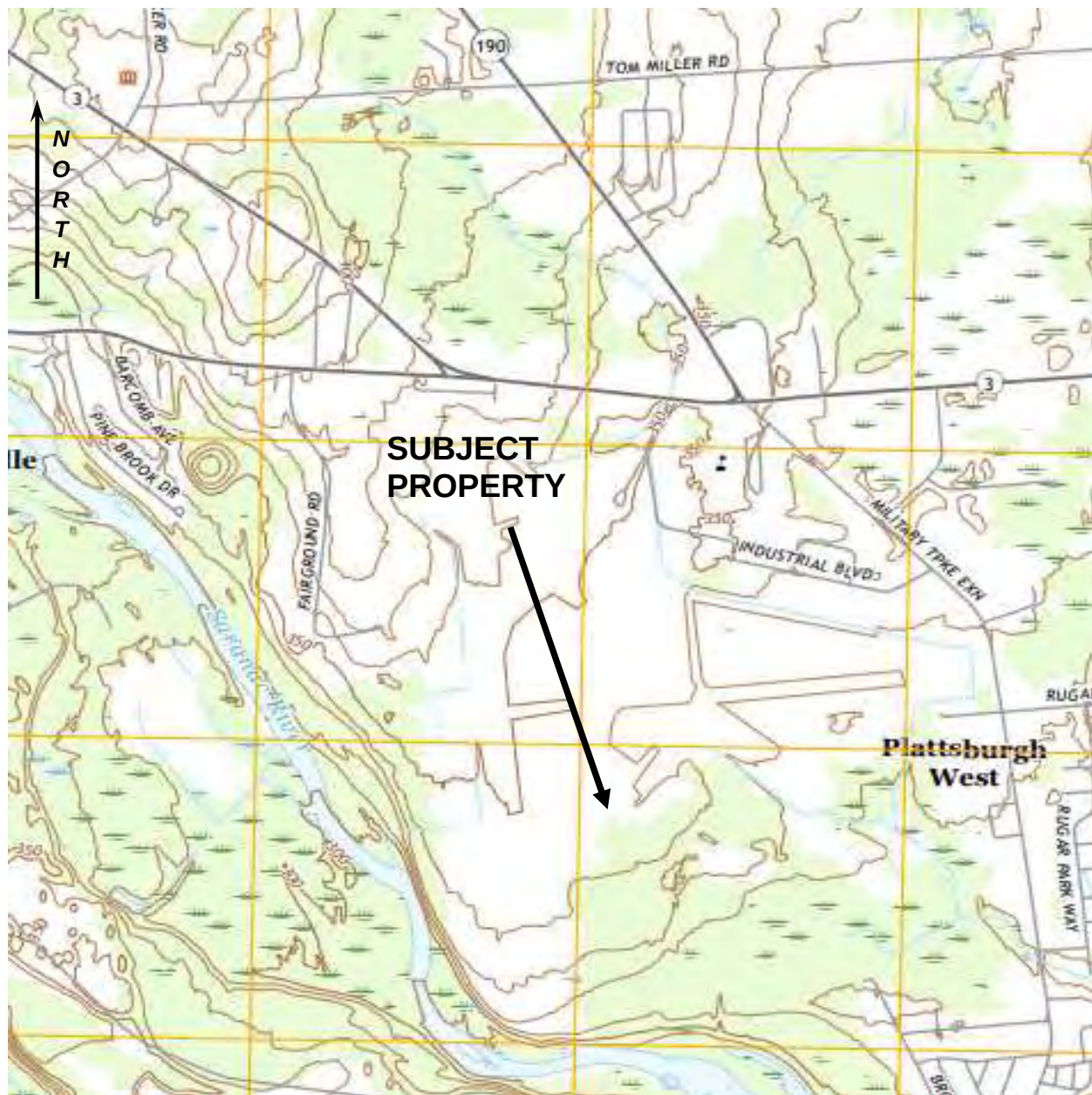
5.6 Implementation

Implementation of the soil and groundwater management plan can be completed by the client and/or the client's environmental consultant.



APPENDIX A

- 1) Site Location Map**
- 2) Site Map**
- 3) Cut/Fill Plan – Lot D**



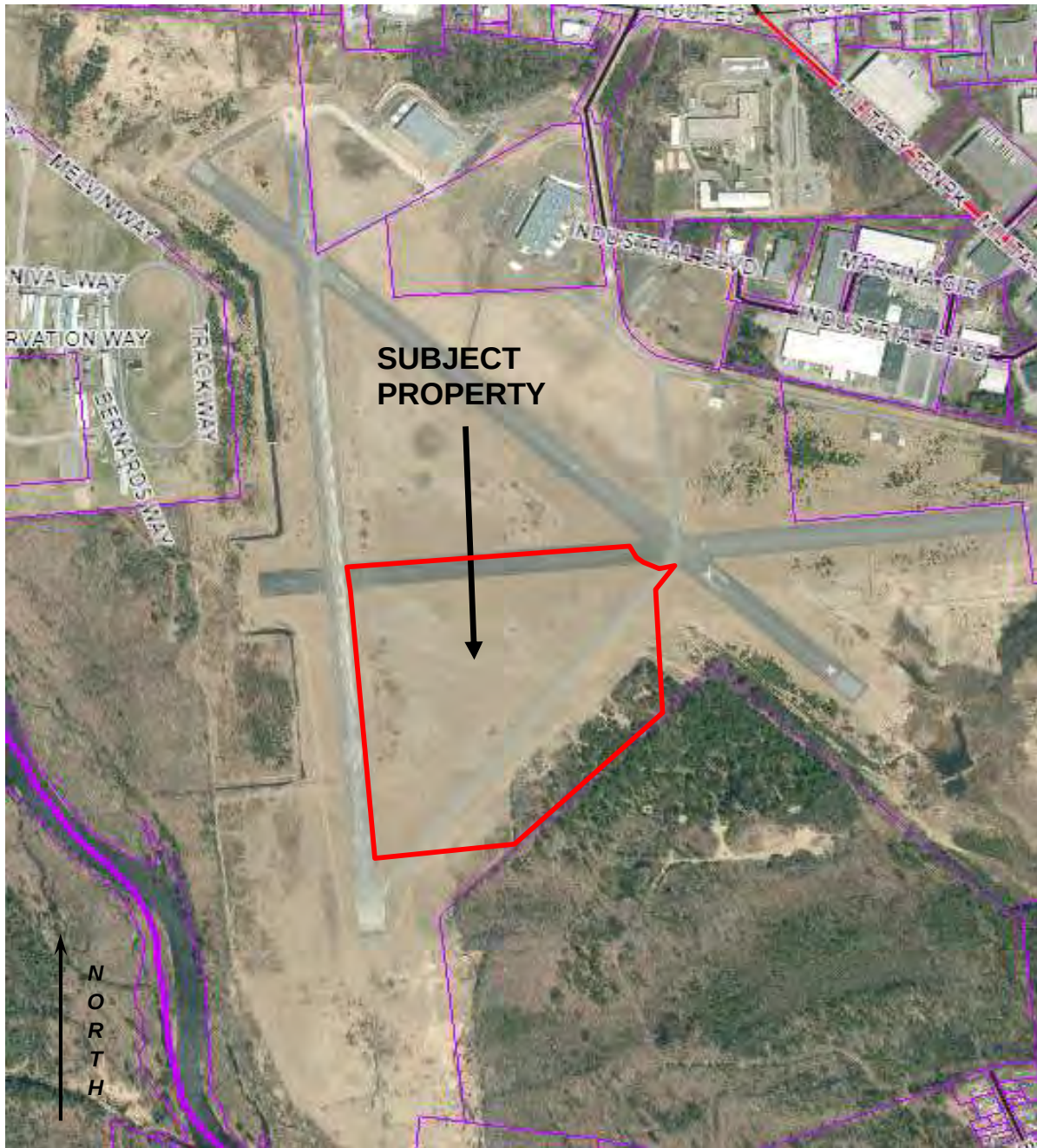
KAS Job Number **508212230**
 Source: **USGS Store**



Former Clinton County Airport Plattsburgh, New York

2019 USGS Topographic Map

Date: 09/20/21	Drawing No. 0	Scale: NTS	By: AH
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KAS Job Number
Source:

508215230
<http://clinco.maps.arcgis.com/apps/webappviewer>



Industrial Boulevard Plattsburgh, New York

Site Map

Date: 09/20/21	Drawing No. 0	Scale: NTS	By: AH
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CUT / FILL SUMMARY					
2D AREA	CUT	FILL	NET	CONCRETE / PAVEMENT / GRAVEL SURFACE VOLUME	ADJUSTED NET
1790398 SF	14,076 CY	350,370 CY	336,295 CY <FILL>	46,851 CY	289,444 CY <FILL>

HATCH LEGEND

- CUT VOLUME (MAX. ±5')
- FILL VOLUME (MAX. ±15')

LEGEND

- EXISTING / NEW MANHOLE
- EXISTING / NEW WELL
- EXISTING / NEW MANHOLE
- EXISTING / NEW UTILITY POLE
- EXISTING / NEW FIRE HYDRANT
- EXISTING / NEW WATER CURB STOP
- EXISTING / NEW EASEMENT BOUNDARY
- BUILDING SETBACKS
- EXISTING / NEW TREE LINE
- PROPERTY LINE ABUTTERS
- EXISTING / NEW PROPERTY LINE
- EXISTING / NEW DITCH CENTERLINE
- 101 - - - - - EXISTING GRADE CONTOUR
- 102 - - - - - FINISHED GRADE CONTOUR
- 12" ST - - - - - EXISTING / NEW STORM DRAIN
- W - - - - - EXISTING / NEW WATER SERVICE
- S - - - - - EXISTING / NEW SEWER SERVICE
- G - - - - - EXISTING / NEW GAS MAIN
- UG - - - - - EXISTING / NEW UNDERGROUND UTILITIES
- OHE - - - - - EXISTING / NEW OVERHEAD UTILITIES
- EXISTING / NEW BUILDING
- EXISTING / NEW CONCRETE CURB (FULL / DROP)
- EXISTING / NEW CONCRETE SIDEWALK / PAD
- EXISTING / NEW PAVEMENT
- EXISTING / NEW GRAVEL

SOIL BORING SCHEDULE

ID	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13	B-14	B-15	B-16	B-17	B-18
EXISTING SURFACE ELEV.	±343	±346	±349	±349	±350	±346	±346	±343	±341	±341	±340	±341	±343	±342	±339	±340	±340	±340
DEPTH TO WATER TABLE	5.0 FT	5.5 FT	5.2 FT	6.0 FT	7.1 FT	5.0 FT	5.0 FT	3.0 FT	3.2 FT	5.0 FT	3.5 FT	2.5 FT	6.0 FT	3.5 FT	6.0 FT	4.0 FT	3.0 FT	3.0 FT

ID	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	PC-1	PC-2	PC-3	PC-4	IW-1	IW-2	IW-3	IW-4
EXISTING SURFACE ELEV.	±342	±341	±342	±344	±352	±351	±352	±350	±346	±344	±340	±341	±37	±353	±336	±337	±343	±344
DEPTH TO WATER TABLE	5.0 FT	4.0 FT	5.0 FT	4.0 FT	8.0 FT	8.0 FT	7.0 FT	6.0 FT	5.0 FT	4.5 FT	4.0 FT	2.5 FT	2.5 FT	8.0 FT	2.0 FT	2.0 FT	4.0 FT	4.0 FT

CUT/FILL PLAN

SCALE: 1" = 100'

GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft.



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PROPOSED DEVELOPMENT ON
LOT D
TAX MAP ID 220.-1-3.1-1-1
CLINTON COUNTY AIRPORT, TOWN OF PLATTSBURGH, CLINTON COUNTY, NY

SCHEMATIC
DESIGN PHASE
SERVICES 100%



REVISIONS		
#	BY	DATE

CUT/FILL
PLAN

PROJECT NO. 21049
DATE 02-28-22
DRAWN BY DLL
CHECKED BY JAA

C1



APPENDIX B

Phase II ESA

Former Clinton County Airport – Lot D Industrial Boulevard Plattsburgh, NY 12901

KAS Project #508215230

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

December 10, 2021

Prepared for:

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&
JDNY Bundle, LLC
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Table of Contents

1.0 EXECUTIVE SUMMARY	1
2.0 REPORT PREPARATION/CERTIFICATION	2
3.0 INTRODUCTION / BACKGROUND / OBJECTIVES	3
3.1 Introduction	3
3.2 Background	3
3.3 Objectives	4
4.0 ENVIRONMENTAL CONDITIONS ASSESSMENT	4
4.1 Pre-Sampling Activities	4
4.2 Field Screening and Groundwater Sampling	4
4.3 Groundwater Sample Laboratory Analysis	5
5.0 CONCEPTUAL SITE MODEL	6
5.1 Site Conditions	6
5.2 Potential Sources	6
5.3 Potential Sensitive Receptors	6
6.0 CONCLUSIONS	6
7.0 RECOMMENDATIONS	7

Appendices

APPENDIX A -	Maps
	1) Site Location Map
	2) Sample Location Map
APPENDIX B -	Laboratory Analytical Table
APPENDIX C -	Laboratory Analytical Report
APPENDIX D -	Resumes

1.0 EXECUTIVE SUMMARY

This report summarizes the results of a Phase II Environmental Site Assessment (ESA) conducted, under the supervision of Cumberland Bay Geology, DPC, at the Industrial Boulevard property in Plattsburgh, New York (herein referred to as the property). The property consists of one 59.58-acre parcel of land (A Site map is included in Appendix A). The Phase II ESA was performed by KAS, Inc. (KAS) in accordance with the American Society for Testing and Materials (ASTM) Practice ASTM E 1903-11. KAS performed this Phase II ESA for FedEx Ground Package System, Inc. and JDNY Bundle, LLC.

This Phase II ESA was completed to address a data gap that was identified following the completion of a Phase I ESA (ASTM E1527-13), by KAS for the property on September 20, 2021. The data gap was associated with the historical use of the property as an airport, which is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing perfluorooctane sulfonic acid/perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid/perfluorooctanoate (PFOA), which are per- and polyfluoroalkyl substances (PFAS). Based on the field observations, measurements, and laboratory results, KAS presents the following conclusions:

1. A total of five (5) groundwater samples were collected from sample locations B-3 [PFA-1], B-5 [PFA-2], B-10 [PFA-3], B-12 [PFA-4], and B-14 [PFA-5] and were analyzed for PFAS by EPA Method 537.1;
2. Groundwater was observed between 2.5 and 7.1 feet below ground surface (bgs); and,
3. There were several low-level detections of PFAS in all five (5) groundwater samples. The PFA-4 sample had no detections above the Guidelines for Sampling and Analysis of PFAs Under NYSDEC's Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater. The PFA-1 sample had detections of Perfluorohexane sulfonic acid (PFHxS), Perfluorooctanoic acid (PFOA), and Perfluorooctane sulfonic acid (PFOS), the PFA-2 sample had a detection of PFOS, PFA-3 had detections of PFOA and PFOS, and the PFA-5 sample had detections of PFOA and PFOS above the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater.

No additional investigation is deemed necessary to evaluate the risk to groundwater or soil impacts. The source of the PFOS and PFOAs are unknown but is likely from the historical use as an airport; KAS presents the following recommendations:

- A copy of this report should be presented to the New York State Department of Environmental Conservation (NYSDEC);
- PFAS in the PFA-1, PFA-2, PFA-3, and PFA-5 samples are identified as a contaminant of concern and should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10; and,
- If future development will contact groundwater or soils near the saturated zone, a soil/groundwater management plan should be prepared on how to properly handle the water and soil. The plan should be approved by NYSDEC and followed during construction activities.



2.0 REPORT PREPARATION/CERTIFICATION

KAS, Inc. (KAS) has performed a Phase II Environmental Site Assessment, under the supervision of Cumberland Bay Geology, DPC, of the Industrial Boulevard property in Plattsburgh, New York in conformance with the scope and limitations of ASTM Practice E 1903-19 and for the following objectives:

- 1) Assess whether there has been a release of hazardous substances within the meaning of CERCLA, for purposes including landowner liability protections (ASTM E 1903-19 at §1.2.1);
- 2) Provide information relevant to identifying, defining and evaluating property conditions associated with target analytes that may pose risk to human health or the environment, or risk of bodily injury to persons on the property (ASTM E 1903-19 at §1.2.4); and,
- 3) Provide information relevant to evaluating and allocating business environmental risk in transactional/contractual settings and performing appropriate due diligence in connection with user's intended acquisition and use of the property (ASTM E 1903-19 at §1.2.5).

This work was completed for FedEx Ground Package System, Inc. and JDNY Bundle, LLC.

A handwritten signature in black ink, appearing to read "AH", is positioned above a horizontal line.

Report Prepared By: Anthony Harvey, Environmental Professional, KAS, Inc.

A handwritten signature in black ink, appearing to read "JR", is positioned above a horizontal line.

Report Reviewed By: Jeremy Roberts, P.G., Environmental Professional, Cumberland Bay Geology,
DPC

3.0 INTRODUCTION / BACKGROUND / OBJECTIVES

3.1 Introduction

This report summarizes the results of a Phase II Environmental Site Assessment (ESA) conducted at the Industrial Boulevard property in Plattsburgh, New York (property). A Site Location Map is included in Appendix A. The Phase II ESA was performed by KAS, Inc. (KAS), under the supervision of Cumberland Bay Geology, DPC, in accordance with the American Society for Testing and Materials (ASTM) Practice ASTM E 1903-19. KAS performed this Phase II ESA for FedEx Ground Package System, Inc. and JDNY Bundle, LLC.

3.2 Background

The property consists of one 59.58-acre parcel of land, identified as "Lot D". The groundwater flow direction beneath the property is anticipated to be toward the Saranac River, which is located approximately 1,000-feet to the south. The property is accessed from an access road that connects to Industrial Boulevard to the north.

KAS completed a Phase I Environmental Site Assessment (ESA) (ASTM E1527-13) for the property dated September 20, 2021. The property is currently a vacant airport. It appears the property has been developed since at least 1939, at which time the property was reportedly used as farmland and later as the Clinton County Airport. The past use of the property as an airport is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing perfluorooctane sulfonic acid/perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid/perfluorooctanoate (PFOA), which are per- and polyfluoroalkyl substances (PFAS). PFAS are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Fluoropolymer coatings can be in a variety of products. These include clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, and the insulation of electrical wire.¹ It is unknown if a release has occurred due to this past use of the property but it is important to note the potential presence of PFOS and PFOA, which are emerging contaminants by the United States Environmental Protection Agency (USEPA) and New York State Department of Environmental Conservation (NYSDEC). KAS considers the lack of data associated with PFOS and PFOAs to be a data gap and additional investigation would be necessary to determine if PFOS/PFOAs are present, but under the current ASTM standard the potential past use of PFOS/PFOAs are not considered to represent a recognized environmental condition (REC). The current ASTM standard defines a hazardous substance as, "a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts: (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended." At the time of this report, PFOS/PFOAs are not CERCLA or RCRA listed hazardous substances. KAS considers the lack of data associated with PFOS and PFOAs to be a data gap and additional investigation would be necessary to determine if they are present on the property.

¹ https://www.cdc.gov/biomonitoring/PFAS_FactSheet.html

3.3 Objectives

The objectives of this Phase II ESA were to:

- 1) Assess whether there has been a release of hazardous substances within the meaning of CERCLA, for purposes including landowner liability protections (ASTM E 1903-19 at §1.2.1);
- 2) Provide information relevant to identifying, defining and evaluating property conditions associated with target analytes that may pose risk to human health or the environment, or risk of bodily injury to persons on the property (ASTM E 1903-19 at §1.2.4); and,
- 3) Provide information relevant to evaluating and allocating business environmental risk in transactional/contractual settings and performing appropriate due diligence in connection with user's intended acquisition and use of the property (ASTM E 1903-19 at §1.2.5.).

The means by which these objectives were completed included the following:

- Preparation of a health and safety plan;
- Advancement of soil borings and installation of temporary groundwater monitoring wells;
- Laboratory analysis of five (5) groundwater samples; and,
- Preparation of a Phase II ESA Report to include a site plan, a conceptual site model, interpretation of data acquired during the investigation, and conclusions and recommendations.

The Phase II ESA focused on identifying if the presence of PFAS are present in the groundwater at the property, associated with the former use as an airport. Conclusions presented in this assessment are based on the findings from groundwater sampling assessment.

4.0 ENVIRONMENTAL CONDITIONS ASSESSMENT

As part of the approved Phase II ESA work scope, a total of five (5) temporary groundwater monitoring wells were advanced at the property on November 9, 2021.

4.1 Pre-Sampling Activities

Prior to the initiation of subsurface at the property, KAS prepared a health and safety plan (HASP). The HASP was present on site with field personnel during the course of the Phase II ESA.

4.2 Field Screening and Groundwater Sampling

On November 9, 2021, a total of five (5) temporary groundwater monitoring wells (B-3 [PFA-1], B-5 [PFA-2], B-10 [PFA-3], B-12 [PFA-4], and B-14 [PFA-5]) were advanced a maximum of 8 to 12 feet below ground surface (bgs). KAS collected a total of five (5) groundwater samples, one from each temporary well location, on November 10, 2021. The wells were advanced throughout the property due to the unknown use of PFAS. The wells were installed using a

hollow-stem auger rig. Groundwater was observed between 2.5 and 7.1 feet bgs. Soil in the borings were visually observed for any obvious signs of impacts and consisted of sands and silts. No obvious visual or olfactory evidence of contamination was observed in the boring locations. The temporary monitoring wells were constructed of slotted PVC piping in each boring to allow for groundwater sampling. A grab groundwater sample was collected from each monitoring well using HDPE disposable bailers. The sampler used nitrile gloves and avoided clothing and other equipment that can cause cross-contamination in accordance with New York State Department of Environmental Conservation (NYSDEC), United States Environmental Protection Agency (EPA) and KAS protocols for PFAS testing. Groundwater samples were collected in laboratory-provided containers. Once the samples were collected, they were placed on ice and transported to Alpha Analytical of Mansfield, MA for analysis for PFAS by EPA Method 537.1. The Sample Location Map is included in Appendix A.

4.3 Groundwater Sample Laboratory Analysis

The laboratory analytical report is included in Appendix B. All five (5) sample locations had groundwater samples that were analyzed for PFAS by EPA Method 537.1. There were several low-level detections of PFAS in all five (5) groundwater samples. The PFA-4 sample had no detections above the Guidelines for Sampling and Analysis of PFAs Under NYSDEC's Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater. The PFA-1 sample had detections of Perfluorohexane sulfonic acid (PFHxS), Perfluorooctanoic acid (PFOA), and Perfluorooctane sulfonic acid (PFOS), the PFA-2 sample had a detection of PFOS, PFA-3 had detections of PFOA and PFOS, and the PFA-5 sample had detections of PFOA and PFOS above the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater.

The analysis was based on the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs which states that, "PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (parts per trillion (ppt)). In addition, further assessment of water may be warranted if either of the following screening levels are met:

- a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or,
- b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L.

If PFAS are identified as a contaminant of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10."

In addition, the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater proposed guidance

values for Raw Water Sources (Human Health) are 6.7 parts per trillion (ppt or nanograms per liter (ng/L)) for PFOA and 2.7 ppt (ng/L) for PFOS².

PFAS in the PFA-1, PFA-2, PFA-3, and PFA-5 samples are identified as a contaminant of concern and should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.

5.0 CONCEPTUAL SITE MODEL

5.1 Site Conditions

The property consists of approximately 59.58-acres of land located in a light industrial area in the Town of Plattsburgh on the former Clinton County Airport. The property is relatively flat. Surficial groundwater beneath the property is less than 20 feet below grade and the groundwater beneath the property likely flows toward the south based on nearby topography and the location of nearby surface waters. The Saranac River is located approximately 1,000-feet to the south.

The property has paved surfaces that were part of the former airport. The property is accessed from Industrial Boulevard to the north via access roads. The property reportedly has access to overhead electric, telecommunication services, municipal water, and municipal sewer but existing utilities are unknown.

5.2 Potential Sources

The historical use of the property as an airport is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing PFAS. It is unknown if a release has occurred due to this past use of the property but it is important to note the potential presence of PFAS, which are emerging contaminants by the USEPA and the NYSDEC.

5.3 Potential Sensitive Receptors

There are currently no site users and the property is undeveloped, therefore no potential receptors are known to be impacted at this time. If development occurs in the future, exposure to the groundwater may impacted site users.

6.0 CONCLUSIONS

Based on the Phase II ESA completed in conformance with the scope and limitations of ASTM Practice ASTM E 1903-19 at the Industrial Boulevard property located in Plattsburgh, New York. The following conclusions are offered:

1. A total of five (5) groundwater samples were collected from sample locations B-3 [PFA-1], B-5 [PFA-2], B-10 [PFA-3], B-12 [PFA-4], and B-14 [PFA-5] and were analyzed for PFAS by EPA Method 537.1;
2. Groundwater was observed between 2.5 and 7.1 feet bgs; and,

² <https://www.dec.ny.gov/chemical/122803.html>

3. There were several low-level detections of PFAS in all five (5) groundwater samples. The PFA-4 sample had no detections above the Guidelines for Sampling and Analysis of PFAs Under NYSDEC's Part 375 Remedial Programs and the draft addendum to TOGS 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater. The PFA-1 sample had detections of PFHxS, PFOA, and PFOS, the PFA-2 sample had a detection of PFOS, PFA-3 had detections of PFOA and PFOS, and the PFA-5 sample had detections of PFOA and PFOS above the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs and the draft addendum to TOGS 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater.

7.0 RECOMMENDATIONS

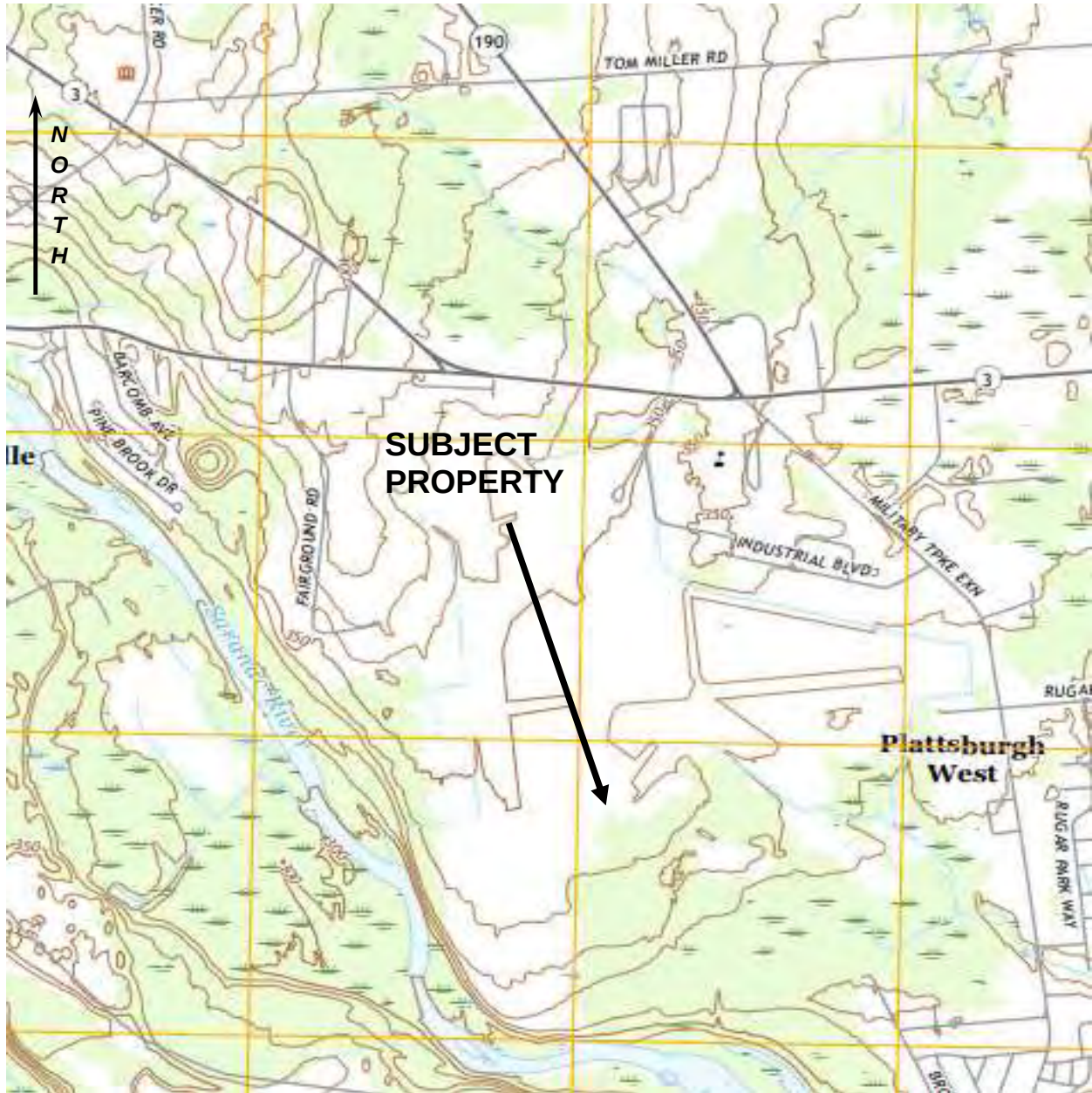
No additional investigation is deemed necessary to evaluate the risk to groundwater or soil impacts. The source of the PFAS are unknown but is likely from the historical use as an airport; KAS presents the following recommendations:

- A copy of this report should be presented to the NYSDEC;
- PFAS in the PFA-1, PFA-2, PFA-3, and PFA-5 samples are identified as a contaminant of concern and should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10; and,
- If future development will contact groundwater or soils at or close to the saturated zone, a soil/groundwater management plan should be prepared on how to properly handle the water and soil. The plan should be approved by NYSDEC and followed during construction activities.



APPENDIX A

- 1) Site Location Map**
- 2) Sample Location Map**



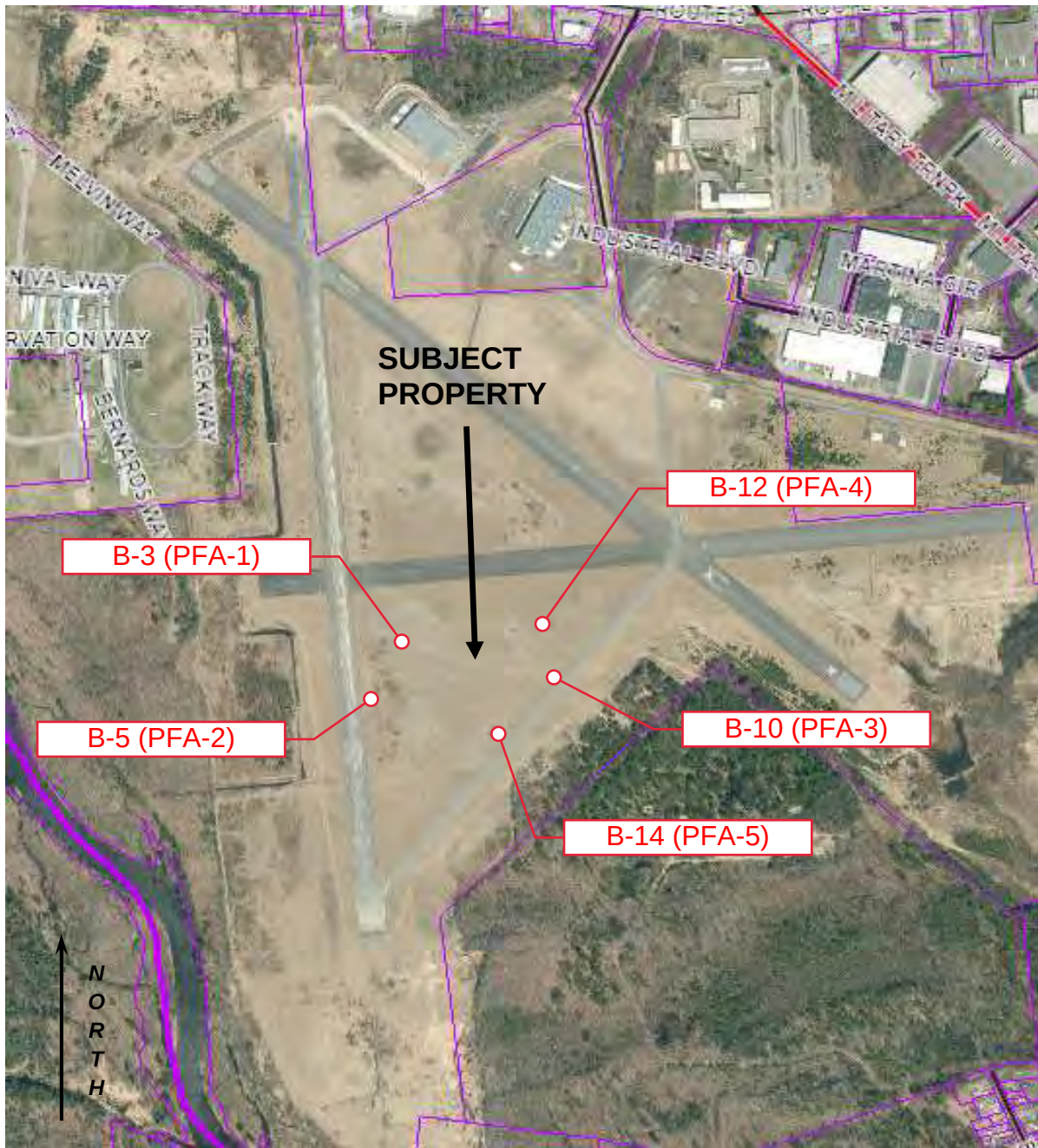
KAS Job Number 508212230
Source: USGS Store



Industrial Boulevard Plattsburgh, New York

2019 USGS Topographic Map

Date: 09/20/21	Drawing No. 0	Scale: NTS	By: AH
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KAS Job Number

508215230

Source:

<http://clinco.maps.arcgis.com/apps/webappviewer>



Industrial Boulevard Plattsburgh, New York

Site Map

Date: 12/9/21

Drawing No. 0

Scale: NTS

By: AH



APPENDIX B

LABORATORY ANALYTICAL TABLE



Sampling Data Summary
Phase II ESA
Industrial Boulevard, Plattsburgh, New York

	GROUNDWATER						
<i>Boring Location</i>	<i>B-3</i>	<i>B-5</i>	<i>B-10</i>	<i>B-12</i>	<i>B-14</i>	<i>*Draft</i>	Groundwater
<i>Sample Identification</i>	<i>PFA-1</i>	<i>PFA-2</i>	<i>PFA-3</i>	<i>PFA-4</i>	<i>PFA-5</i>	<i>Guidance</i>	Guidelines
<i>Sample Date</i>	<i>11/10/21</i>	<i>11/10/21</i>	<i>11/10/21</i>	<i>11/10/21</i>	<i>11/10/21</i>	<i>Values</i>	
<i>Depth to Water (Feet below ground surface)</i>	<i>5.2'</i>	<i>7.1'</i>	<i>5.0'</i>	<i>2.5'</i>	<i>3.5'</i>		
EPA Method 537.1 (GW - ng/L)							
Perfluorobutanoic acid (PFBA)	6.10	2.33	10.9	5.24	7.50	NS	100
Perfluoropentanoic acid (PFPeA)	6.26	1.20	6.11	3.17	6.60	NS	100
Perfluorobutane sulfonic acid (PFBS)	12.1	0.531	0.757	0.336	1.02	NS	100
Perfluorohexanoic acid (PFHxA)	21.4	1.68	6.91	4.26	6.93	NS	100
Perfluoroheptanoic acid (PFHpA)	3.78	1.11	6.87	5.60	3.68	NS	100
Perfluorohexane sulfonic acid (PFHxS)	534	7.71	0.734	0.938	15.0	NS	100
Perfluorooctanoic acid (PFOA)	23.3	1.91	21.1	5.55	7.82	6.7	10
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	2.52	ND	27.4	12.2	ND	NS	100
Perfluoroheptane sulfonic acid (PFHpS)	76.6	0.741	ND	ND	ND	NS	100
Perfluorononanoic acid (PFNA)	0.321	0.865	ND	ND	0.895	NS	10
Perfluorooctane sulfonic acid (PFOS)	1440	38.8	12.3	0.924	46.4	2.7	10
Perfluorodecanoic acid (PFDA)	ND	0.318	ND	ND	ND	NS	10
Perfluoroundecanoic acid (PFUnA)	ND	ND	0.501	ND	ND	NS	10
Perfluorotridecanoic acid (PFTTrDA)	ND	0.341	0.621	ND	ND	NS	10
Total Reported PFAs	2,126.38	57.54	94.20	38.22	95.85		500

NOTES:

All groundwater (GW) values reported in ng/L, unless otherwise indicated.

Above Standard

ND = Not Detected < Detection Limit

NS = No standard

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at/ above the unrestricted use are shaded.

*Draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater GUIDELINES FOR SAMPLING AND ANALYSIS OF PFAS

Under NYSDEC's Part 375 Remedial Programs

J - Qualifier: Estimated Value. Concentration below Minimum Reporting Limit



APPENDIX C

LABORATORY ANALYTICAL REPORT



ANALYTICAL REPORT

Lab Number:	L2162587
Client:	KAS, Inc. 589 Avenue D, Suite 10 Williston, VT 05495
ATTN:	Anthony Harvey
Phone:	(802) 383-0486
Project Name:	FORMER CLINTON COUNTY AIRPORT
Project Number:	508215230
Report Date:	12/07/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2162587-01	PFA-1	WATER	INDUSTRIAL BLVD, PLATTSBURGH, NY	11/10/21 11:45	11/12/21
L2162587-02	PFA-2	WATER	INDUSTRIAL BLVD, PLATTSBURGH, NY	11/10/21 12:00	11/12/21
L2162587-03	PFA-3	WATER	INDUSTRIAL BLVD, PLATTSBURGH, NY	11/10/21 12:40	11/12/21
L2162587-04	PFA-4	WATER	INDUSTRIAL BLVD, PLATTSBURGH, NY	11/10/21 12:55	11/12/21
L2162587-05	PFA-5	WATER	INDUSTRIAL BLVD, PLATTSBURGH, NY	11/10/21 12:25	11/12/21
L2162587-06	FIELD BLANK	WATER	INDUSTRIAL BLVD, PLATTSBURGH, NY	11/10/21 11:00	11/12/21

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2162587-01 through -05: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2162587-01 through -06: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2162587-01, -03, -05: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

L2162587-01: The sample was re-extracted on dilution with the method required holding time exceeded in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-extraction was performed only for the compound(s) that exceeded the calibration range.

WG1573434-1, WG1573434-2, WG1576347-1, and WG1576347-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Alycia Mogayzel

Title: Technical Director/Representative

Date: 12/07/21

ORGANICS

SEMIVOLATILES

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-01
Client ID: PFA-1
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 11:45
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 22:08
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.10		ng/l	1.91	0.390	1
Perfluoropentanoic Acid (PFPeA)	6.26		ng/l	1.91	0.379	1
Perfluorobutanesulfonic Acid (PFBS)	12.1		ng/l	1.91	0.228	1
Perfluorohexanoic Acid (PFHxA)	21.4		ng/l	1.91	0.314	1
Perfluoroheptanoic Acid (PFHpA)	3.78		ng/l	1.91	0.215	1
Perfluorohexanesulfonic Acid (PFHxS)	534		ng/l	1.91	0.359	1
Perfluorooctanoic Acid (PFOA)	23.3		ng/l	1.91	0.226	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.52		ng/l	1.91	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	76.6		ng/l	1.91	0.658	1
Perfluorononanoic Acid (PFNA)	0.321	J	ng/l	1.91	0.298	1
Perfluorooctanesulfonic Acid (PFOS)	1440	E	ng/l	1.91	0.482	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.91	0.291	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.91	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.91	0.620	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.91	0.248	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.91	0.937	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.91	0.769	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.91	0.356	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.91	0.313	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.91	0.237	1

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-01
Client ID: PFA-1
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 11:45
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	68		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	157	Q	70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	145	Q	71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	445	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	295	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		22-136

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-01
Client ID: PFA-1
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 11:45
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/30/21 12:50
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.91	0.554	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74			10-112		

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-01 **RE**
Client ID: PFA-1
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 11:45
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/28/21 20:28
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 11/28/21 08:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonic Acid (PFOS)	1350		ng/l	20.0	5.04	1
PFOA/PFOS, Total	1370		ng/l	20.0	5.04	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116			69-131		

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-02
Client ID: PFA-2
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:00
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 22:24
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.33		ng/l	1.94	0.396	1
Perfluoropentanoic Acid (PFPeA)	1.20	J	ng/l	1.94	0.384	1
Perfluorobutanesulfonic Acid (PFBS)	0.531	J	ng/l	1.94	0.231	1
Perfluorohexanoic Acid (PFHxA)	1.68	J	ng/l	1.94	0.318	1
Perfluoroheptanoic Acid (PFHpA)	1.11	J	ng/l	1.94	0.218	1
Perfluorohexanesulfonic Acid (PFHxS)	7.71		ng/l	1.94	0.364	1
Perfluorooctanoic Acid (PFOA)	1.91	J	ng/l	1.94	0.229	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.94	1.29	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.741	J	ng/l	1.94	0.667	1
Perfluorononanoic Acid (PFNA)	0.865	J	ng/l	1.94	0.302	1
Perfluorooctanesulfonic Acid (PFOS)	38.8		ng/l	1.94	0.488	1
Perfluorodecanoic Acid (PFDA)	0.318	J	ng/l	1.94	0.295	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.94	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.94	0.628	1
Perfluoroundecanoic Acid (PFUnA)	0.368	J	ng/l	1.94	0.252	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.94	0.950	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.94	0.562	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.94	0.779	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.94	0.361	1
Perfluorotridecanoic Acid (PFTrDA)	0.341	JF	ng/l	1.94	0.317	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.94	0.240	1
PFOA/PFOS, Total	40.7	J	ng/l	1.94	0.229	1

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-02
Client ID: PFA-2
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:00
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	84			58-132		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	57		Q	62-163		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103			70-131		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75			57-129		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85			60-129		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109			71-134		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86			62-129		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	506		Q	14-147		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88			59-139		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103			69-131		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89			62-124		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	235		Q	10-162		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89			24-116		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93			55-137		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23			10-112		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98			27-126		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74			48-131		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56			22-136		

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-03
Client ID: PFA-3
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:40
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 22:41
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	10.9		ng/l	1.88	0.384	1
Perfluoropentanoic Acid (PFPeA)	6.11		ng/l	1.88	0.373	1
Perfluorobutanesulfonic Acid (PFBS)	0.757	J	ng/l	1.88	0.224	1
Perfluorohexanoic Acid (PFHxA)	6.91		ng/l	1.88	0.309	1
Perfluoroheptanoic Acid (PFHpA)	6.87		ng/l	1.88	0.212	1
Perfluorohexanesulfonic Acid (PFHxS)	0.734	J	ng/l	1.88	0.354	1
Perfluorooctanoic Acid (PFOA)	21.1		ng/l	1.88	0.222	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27.4		ng/l	1.88	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.648	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.294	1
Perfluorooctanesulfonic Acid (PFOS)	12.3		ng/l	1.88	0.474	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.286	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.88	1.14	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.610	1
Perfluoroundecanoic Acid (PFUnA)	0.501	JF	ng/l	1.88	0.245	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.922	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.757	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.350	1
Perfluorotridecanoic Acid (PFTTrDA)	0.621	J	ng/l	1.88	0.308	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.233	1
PFOA/PFOS, Total	33.4		ng/l	1.88	0.222	1

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-03
Client ID: PFA-3
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:40
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	244	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	232	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60		22-136

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-03
Client ID: PFA-3
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:40
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/30/21 12:57
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.88	0.546	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41			10-112		

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-04
Client ID: PFA-4
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:55
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 22:57
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	5.24		ng/l	1.82	0.372	1
Perfluoropentanoic Acid (PFPeA)	3.17		ng/l	1.82	0.362	1
Perfluorobutanesulfonic Acid (PFBS)	0.336	J	ng/l	1.82	0.217	1
Perfluorohexanoic Acid (PFHxA)	4.26		ng/l	1.82	0.299	1
Perfluoroheptanoic Acid (PFHpA)	5.60		ng/l	1.82	0.206	1
Perfluorohexanesulfonic Acid (PFHxS)	0.938	J	ng/l	1.82	0.343	1
Perfluorooctanoic Acid (PFOA)	5.55		ng/l	1.82	0.215	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	12.2		ng/l	1.82	1.22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.82	0.628	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.82	0.285	1
Perfluorooctanesulfonic Acid (PFOS)	0.924	JF	ng/l	1.82	0.460	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.82	0.278	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.82	1.11	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.82	0.592	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.82	0.237	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.82	0.895	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.82	0.529	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.82	0.734	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.82	0.340	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.82	0.299	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.82	0.226	1
PFOA/PFOS, Total	6.47	J	ng/l	1.82	0.215	1

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-04
Client ID: PFA-4
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:55
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	99			58-132		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84			62-163		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	115			70-131		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97			57-129		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101			60-129		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120			71-134		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98			62-129		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	290		Q	14-147		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94			59-139		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111			69-131		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94			62-124		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	223		Q	10-162		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85			24-116		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94			55-137		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11			10-112		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	97			27-126		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74			48-131		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58			22-136		

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-05
Client ID: PFA-5
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:25
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 23:31
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.50		ng/l	1.90	0.388	1
Perfluoropentanoic Acid (PFPeA)	6.60		ng/l	1.90	0.377	1
Perfluorobutanesulfonic Acid (PFBS)	1.02	J	ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	6.93		ng/l	1.90	0.312	1
Perfluoroheptanoic Acid (PFHpA)	3.68		ng/l	1.90	0.214	1
Perfluorohexanesulfonic Acid (PFHxS)	15.0		ng/l	1.90	0.358	1
Perfluorooctanoic Acid (PFOA)	7.82		ng/l	1.90	0.225	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.655	1
Perfluorononanoic Acid (PFNA)	0.895	J	ng/l	1.90	0.297	1
Perfluorooctanesulfonic Acid (PFOS)	46.4		ng/l	1.90	0.480	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.90	0.289	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.617	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.247	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.933	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.765	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.354	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.311	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.90	0.236	1
PFOA/PFOS, Total	54.2		ng/l	1.90	0.225	1

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-05
Client ID: PFA-5
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:25
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	297	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	193	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	104		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	114		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		22-136

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-05
Client ID: PFA-5
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 12:25
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/30/21 13:04
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.552	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76			10-112		

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-06
Client ID: FIELD BLANK
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 11:00
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 23:47
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.79	0.366	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.79	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.79	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.616	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.79	0.452	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.581	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.878	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.520	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.79	0.720	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.333	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	ND		ng/l	1.79	0.211	1



Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

SAMPLE RESULTS

Lab ID: L2162587-06
Client ID: FIELD BLANK
Sample Location: INDUSTRIAL BLVD, PLATTSBURGH, NY

Date Collected: 11/10/21 11:00
Date Received: 11/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	115		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	110		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	152	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	154		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	100		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		22-136

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 19:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1573434-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 19:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1573434-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	160	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	160		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	120		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		22-136

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/30/21 12:35
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1573434-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		10-112

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/28/21 19:55
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 11/28/21 08:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1576347-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	0.260	J	ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 11/28/21 19:55
 Analyst: SG

Extraction Method: ALPHA 23528
 Extraction Date: 11/28/21 08:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1576347-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	157	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	165	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	107		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	114		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		22-136

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1573434-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	102		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	113		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	105		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	125		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	104		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	98		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	114		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	104		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	116		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	104		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	101		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	101		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	99		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	126		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT

Lab Number: L2162587

Project Number: 508215230

Report Date: 12/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1573434-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	160	Q			14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	168	Q			10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	106				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	113				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72				22-136

Lab Control Sample Analysis**Batch Quality Control****Project Name:** FORMER CLINTON COUNTY AIRPORT**Lab Number:** L2162587**Project Number:** 508215230**Report Date:** 12/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1573434-2								
Perfluorooctanesulfonamide (FOSA)	111		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	68				10-112

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1576347-2								
Perfluorobutanoic Acid (PFBA)	97		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	99		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	96		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	104		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	101		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	119		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	95		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	97		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	107		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	99		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	103		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	104		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	94		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	93		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	93		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	97		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	104		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	124		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	95		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT

Lab Number: L2162587

Project Number: 508215230

Report Date: 12/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1576347-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	171	Q			14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	170	Q			10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	109				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	53				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	126				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59				22-136

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1573434-3 QC Sample: L2162627-08 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	39.8	40.0	101	-	-	-	-	67-148	-	-	30
Perfluoropentanoic Acid (PFPeA)	ND	39.8	39.8	100	-	-	-	-	63-161	-	-	30
Perfluorobutanesulfonic Acid (PFBS)	ND	35.3	34.7	98	-	-	-	-	65-157	-	-	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	37.2	40.8	110	-	-	-	-	37-219	-	-	30
Perfluorohexanoic Acid (PFHxA)	ND	39.8	39.8	100	-	-	-	-	69-168	-	-	30
Perfluoropentanesulfonic Acid (PFPeS)	ND	37.4	39.8	106	-	-	-	-	52-156	-	-	30
Perfluoroheptanoic Acid (PFHpA)	ND	39.8	40.8	103	-	-	-	-	58-159	-	-	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	36.4	39.7	109	-	-	-	-	69-177	-	-	30
Perfluorooctanoic Acid (PFOA)	ND	39.8	41.0	103	-	-	-	-	63-159	-	-	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	37.9	44.7	118	-	-	-	-	49-187	-	-	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	37.9	38.5	102	-	-	-	-	61-179	-	-	30
Perfluorononanoic Acid (PFNA)	ND	39.8	39.6	100	-	-	-	-	68-171	-	-	30
Perfluorooctanesulfonic Acid (PFOS)	ND	36.9	41.6	113	-	-	-	-	52-151	-	-	30
Perfluorodecanoic Acid (PFDA)	ND	39.8	41.6	105	-	-	-	-	63-171	-	-	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	38.2	42.7	112	-	-	-	-	56-173	-	-	30
Perfluorononanesulfonic Acid (PFNS)	ND	38.2	36.2	95	-	-	-	-	48-150	-	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.8	42.5F	107	-	-	-	-	60-166	-	-	30
Perfluoroundecanoic Acid (PFUnA)	ND	39.8	39.6	100	-	-	-	-	60-153	-	-	30
Perfluorodecanesulfonic Acid (PFDS)	ND	38.3	31.1	81	-	-	-	-	38-156	-	-	30
Perfluorooctanesulfonamide (FOSA)	ND	39.8	38.4	97	-	-	-	-	46-170	-	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	39.8	43.6	110	-	-	-	-	45-170	-	-	30
Perfluorododecanoic Acid (PFDoA)	ND	39.8	43.3	109	-	-	-	-	67-153	-	-	30

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER CLINTON COUNTY AIRPORT**Project Number:** 508215230**Lab Number:** L2162587**Report Date:** 12/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1573434-3 QC Sample: L2162627-08 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	39.8	59.0	148		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	39.8	41.3	104		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	308	Q			10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	176	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	166	Q			14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	101				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1576347-3 QC Sample: L2163900-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	37.8	36.2	96		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	37.8	35.8	95		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	33.6	31.3	93		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	35.4	37.6	106		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	37.8	36.0	95		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	35.6	35.6	100		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	37.8	35.8	95		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	34.6	35.2	102		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	37.8	36.3	96		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	36	40.1	111		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	36	32.4	90		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	37.8	35.3	93		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	35.1	36.6	104		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	37.8	36.6	97		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	36.3	40.6	112		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	36.4	33.8	93		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.8	43.9	116		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	37.8	36.2	96		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.5	32.2	88		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	37.8	36.0	95		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.8	40.6	107		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	37.8	36.4	96		-	-		67-153	-		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER CLINTON COUNTY AIRPORT**Project Number:** 508215230**Lab Number:** L2162587**Report Date:** 12/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1576347-3 QC Sample: L2163900-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	37.8	46.6	123		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	37.8	38.8	103		-	-		59-182	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	369	350	95		-	-		57-162	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	35.7	35.0	98		-	-		69-143	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	37.8	38.3	101		-	-		40-167	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	37.8	25.5	67		-	-		10-119	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	170	Q			10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	168	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	165	Q			14-147
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	104				10-165
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	112				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	101				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61				22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	54				10-206

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER CLINTON COUNTY AIRPORT**Lab Number:** L2162587**Project Number:** 508215230**Report Date:** 12/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1576347-3 QC Sample: L2163900-01 Client ID: MS Sample

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT

Project Number: 508215230

Lab Number: L2162587

Report Date: 12/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2162587
Report Date: 12/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		113		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	161	Q	177	Q	12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		105		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		104		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		101		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	154	Q	151	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		105		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		98		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	201	Q	169	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		89		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		94		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		36		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	116		116		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		72		48-131

Project Name: FORMER CLINTON COUNTY AIRPORT

Project Number: 508215230

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2162587

Report Date: 12/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		60		22-136

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT

Project Number: 508215230

Lab Number: L2162587

Report Date: 12/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1576347-4 QC Sample: L2163900-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis **Batch Quality Control**

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1576347-4 QC Sample: L2163900-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/l	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		81		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	81		86		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		108		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	153	Q	161	Q	12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		82		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		87		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		109		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	85		89		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	148	Q	161	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		91		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		105		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		91		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		171	Q	10-162

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1576347-4 QC Sample: L2163900-02 Client ID: DUP Sample						

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		88		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		97		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31		26		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		99		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70		75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		59		22-136
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	102		108		10-165
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	52		52		10-206

Project Name: FORMER CLINTON COUNTY AIRPORT**Lab Number:** L2162587**Project Number:** 508215230**Report Date:** 12/07/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2162587-01A	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-01B	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-02A	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-02B	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-03A	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-03B	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-04A	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-04B	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-05A	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-05B	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2162587-06A	Plastic 250ml unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Serial_No:12072111:44
Lab Number: L2162587
Report Date: 12/07/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSA's)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FORMER CLINTON COUNTY AIRPORT
Project Number: 508215230

Lab Number: L2162587
Report Date: 12/07/21

REFERENCES

- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



APPENDIX D

RESUMES



**KAS, INC.
PROFESSIONAL PROFILE**

ANTHONY HARVEY

TITLE	Project Manager/Engineer, Plattsburgh
EXPERTISE	Environmental project management, client management, property due diligence assessments, construction monitoring, geotechnical/subsurface investigation, contaminated site investigation and clean up.
EXPERIENCE	KAS, Inc., Williston, Vermont. February 2017 – Present. Project Manager/Engineer in KAS's Plattsburgh, New York office. Project management of Phase I Environmental Site Assessments, collection of wastewater samples, stormwater pollution prevention plan (SWPPP) inspections, Spill Prevention, Control, and Countermeasure (SPCC) plans, construction monitoring, septic design, site investigation and remediation, subsurface investigation, and underground storage tank removal. Sanborn Head and Associates, Inc., Westford, Massachusetts 2014-2016. Conducted and managed Phase I Environmental Site Assessments, subsurface investigations, construction monitoring, soil density testing, operations and maintenance of remediation systems, tank pulls, groundwater sampling, monitoring well installation, and marketing/client interaction. ECS Mid-Atlantic, LLC, Baltimore, Maryland 2013-2014. Conducted Phase I and Phase II Environmental Site Assessments, asbestos sampling, mold abatement, project management, marketing, and proposal development.
ACADEMIC BACKGROUND	M.S., Clarkson University, Environmental Science and Engineering, 2013 B.S., Clarkson University, Biology, 2011
PROFESSIONAL QUALIFICATIONS	ASTM/EPA Environmental Professional
OTHER	OSHA 1910.120 Hazardous Waste Site Worker NYSDEC 4-Hour Erosion and Sediment Control Training Troxler Nuclear Density Gauge Training



**CUMBERLAND BAY GEOLOGY, DPC
PROFESSIONAL PROFILE**

JEREMY P. ROBERTS, P.G.

TITLE

Principal

EXPERTISE

Environmental program project management. Collection of environmental samples and operation and maintenance of hazardous waste treatment systems. Project management, geological investigations, hazardous waste site assessments, water system monitoring and maintenance, groundwater and soil contamination, remedial system design, installation, and operation. Wetland delineation. Phase I and Phase II Environmental Site Assessments.

EXPERIENCE

Cumberland Bay Geology, DPC, Plattsburgh, NY August 2019 – Present. Oversight of New York State environmental projects, including environmental site assessments, UST removals, site investigations, and environmental cleanup activities.

KAS, Inc., Williston, VT October 2004 – Present. Management of KAS' environmental projects/ programs, including environmental site assessments, UST removals, site investigations, and environmental cleanup activities. Foster technical innovation, quality control and assurance on projects and written materials. Business development activities for environmental programs. Project Management.

Griffin International, Inc., Williston, VT January 2002 – October 2004. Project management. Technical report writing. Geological investigations. Hazardous waste site assessments. Phase I and Phase II environmental site assessments. Collection of groundwater, surface water, and soil samples, soil screening, and soil vapor extraction system monitoring and maintenance.

ACADEMIC

BACKGROUND

BS, Plant and Soil Science, University of Vermont. May 1999.

**PROFESSIONAL
QUALIFICATIONS**

New York Licensed Geologist #000453-1
ASTM/EPA Environmental Professional
40 Hour OSHA 29CFR1910.120 Hazardous Worker Training
40 Hour Certification in Federal Wetland Delineation, Identification, and Classification.
Vermont Certified Asbestos Site Inspector
ASTM Phase I Environmental Site Assessment Practices For Commercial Real Estate: Transaction Screen & Phase I Site Assessment, April 2012
IAQ/IH Sampling Workshop, August 2012
Practical Guide to Vapor Intrusion Course, April 2016



APPENDIX C

Pre-Characterization Assessment Report

Former Clinton County Airport – Lot D Industrial Boulevard Plattsburgh, NY 12901

KAS Project #508215230

PRE-CHARACTERIZATION ASSESSMENT REPORT

February 25, 2022

Prepared for:

*FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, Pennsylvania 15108
&
JDNY Bundle, LLC
4520 Madison Suite 100
Kansas City, Missouri 64111*



13 Latour Avenue, Suite 204
PO Box 2787
Plattsburgh, NY 12901
www.kas-consulting.com

518 563.9445 p
518 563.5189 f



Table of Contents

1.0 EXECUTIVE SUMMARY	1
2.0 REPORT PREPARATION/CERTIFICATION	2
3.0 INTRODUCTION / BACKGROUND / OBJECTIVES.....	3
3.1 Introduction.....	3
3.2 Background	3
4.0 PRE-CHARACTERIZATION ASSESSMENT	4
4.1 Pre-Sampling Activities	4
4.2 Test Pits and Field Activities	4
4.3 Soil Sample Laboratory Analysis	5
5.0 CONCLUSIONS.....	5
6.0 RECOMMENDATIONS	5

Appendices

APPENDIX A -	Maps
	1) Site Location Map
	2) Sample Location Map
APPENDIX B -	Laboratory Analytical Table
APPENDIX C -	Laboratory Analytical Report
APPENDIX D -	Resumes

1.0 EXECUTIVE SUMMARY

This report summarizes the results of a Pre-Characterization Assessment conducted, under the supervision of New York State professional geologist with Cumberland Bay Geology, DPC, at the Industrial Boulevard property in Plattsburgh, New York (herein referred to as the property). The property consists of one 59.58-acre parcel of land (A Site map is included in Appendix A). Perfluorooctane sulfonic acid/perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid/perfluorooctanoate (PFOA) were identified in groundwater on the property by KAS, Inc. (KAS) in a Phase II Environmental Site Assessment. This work was completed to assess saturated soils that maybe encountered during redevelopment of the property. The assessment was performed of areas where saturated soils are likely to be encountered based on a cut/fill grading plan prepared by Architectural & Engineering Design Associates, P.C. of Plattsburgh, New York.

Based on the field observations, measurements, and laboratory results, KAS presents the following conclusions:

1. A total of twenty (20) test pits were advanced into to the water table (saturated soils), which ranged from 4 to 8 feet below ground surface (bgs) and groundwater was encountered between 3.5 to 6.0 feet bgs. Saturated soils were collected from each test pit and the soil from five (5) discrete test pit locations in a given area (see Sample Location Map in Appendix A) were composited into one (1) soil sample for laboratory analysis. The saturated soils in the test pits were considered to be representative of the soils to be encountered during redevelopment in each of the areas;
2. A total of four (4) soil samples along with a duplicate sample were submitted to an ELAP-approved laboratory and analyzed for PFAS by SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312; and,
3. Low level detections of various Per- And Polyfluoroalkyl Substances (PFAS) were identified in all five (5) of the soil samples. The total PFOS/PFAS concentrations that were identified ranged from 2.027 nanograms per Liter (ng/L) or parts per trillion (ppt) to 10.652 ng/L (ppt).

The concentrations of PFOS/PFAS detected in saturated soils were below the current guidance values for soils requiring cleanup on-site outlined in the *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Program*. KAS presents the following recommendations:

- A copy of this report should be presented to the NYSDEC;
- Soils that were pre-characterized as part of this assessment do not require treatment and/or disposal based on the findings and can be reused onsite. If additional soils within the saturated zone are encountered outside of the pre-characterized areas they will need to be stockpiled on poly for analysis; and,
- A soil/groundwater management plan should be prepared on how to properly handle the groundwater and soil that has not been pre-characterized during redevelopment activities. The plan should be approved by NYSDEC and followed during construction activities.



2.0 REPORT PREPARATION/CERTIFICATION

KAS, Inc. (KAS) has performed a Pre-Characterization Assessment, under the supervision of New York State professional geologist, of Lot D on the former Clinton County Airport in Plattsburgh, New York. This report has been prepared and reviewed by the following personnel. The project was performed by KAS, Inc. under the supervision of Cumberland Bay Geology, DPC.

We certify under penalty of perjury that we are environmental professionals and that all content contained within this deliverable is to the best of our knowledge true and accurate.

Prepared By:

A handwritten signature in black ink, appearing to read "AH", is written over a horizontal line.

Anthony Harvey
Project Manager, KAS, Inc.

Reviewed By:

A handwritten signature in black ink, appearing to read "JR", is written over a horizontal line.

Jeremy Roberts, P.G.
Principal, Cumberland Bay Geology, DPC

3.0 INTRODUCTION / BACKGROUND / OBJECTIVES

3.1 Introduction

This report summarizes the results of a soil pre-characterization assessment conducted at Lot D on the former Clinton County Airport in Plattsburgh, New York (property). A Site Location Map is included in Appendix A. The assessment was performed by KAS, Inc. (KAS), under the supervision of a New York State professional geologist with Cumberland Bay Geology, DPC. KAS performed this assessment for FedEx Ground Package System, Inc. and JDNY Bundle, LLC.

3.2 Background

The property consists of one 59.58-acre parcel of land, identified as "Lot D". The groundwater flow direction beneath the property is anticipated to be toward the Saranac River, which is located approximately 1,000-feet to the south. The property is accessed from an access road that connects to Industrial Boulevard to the north.

KAS completed a Phase I Environmental Site Assessment (ESA) (ASTM E1527-13) for the property dated September 20, 2021. The property is currently a vacant airport. It appears the property has been developed since at least 1939, at which time the property was reportedly used as farmland and later as the Clinton County Airport. The past use of the property as an airport is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing perfluorooctane sulfonic acid/perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid/perfluorooctanoate (PFOA), which are per- and polyfluoroalkyl substances (PFAS). PFAS are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Fluoropolymer coatings can be in a variety of products. These include clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, and the insulation of electrical wire.¹ It is unknown if a release has occurred due to this past use of the property but it is important to note the potential presence of PFOS and PFOA, which are emerging contaminants by the United States Environmental Protection Agency (USEPA) and New York State Department of Environmental Conservation (NYSDEC). KAS considers the lack of data associated with PFOS and PFOAs to be a data gap and additional investigation would be necessary to determine if PFOS/PFOAs are present, but under the current ASTM standard the potential past use of PFOS/PFOAs are not considered to represent a recognized environmental condition (REC). The current ASTM standard defines a hazardous substance as, "a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts: (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended." At the time of this report, PFOS/PFOAs are not CERCLA or RCRA listed hazardous substances. KAS considers the lack of data associated with PFOS and PFOAs to be a data gap and additional investigation would be necessary to determine if they are present on the property.

¹ https://www.cdc.gov/biomonitoring/PFAS_FactSheet.html

A Phase II ESA was completed on December 10, 2021 to address a data gap that was identified following the completion of the Phase I ESA (ASTM E1527-13) by KAS for the property on September 20, 2021. The data gap was associated with the historical use of the property as an airport, which is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing PFOS and PFOA, which are PFAS. The findings of the Phase II ESA indicated that there were several low-level detections of PFAS in all five (5) groundwater samples collected as well as detections of PFOA and PFOS above the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater. NYSDEC has been provided a copy of the Phase II ESA report.

4.0 PRE-CHARACTERIZATION ASSESSMENT

4.1 Pre-Sampling Activities

Prior to the initiation of work at the property, KAS prepared a health and safety plan (HASP). The HASP was present on site with field personnel during the course of the assessment.

4.2 Test Pits and Field Activities

On January 31, 2022, a total of twenty (20) test pits were advanced to a maximum of 4 to 8 feet below ground surface (bgs). The test pits were installed in areas where saturated soils may be encountered during redevelopment activities based on a cut/fill grading plan provided by Architectural & Engineering Design Associates, P.C. The test pits were grouped into four (4) distinct areas with five (5) test pits per area (see Sample Location Map in Appendix A). Soils from the five (5) test pits within an area were composited into one (1) sample for laboratory analysis. KAS collected a total of four (4) soil samples, one (1) from each area, and one (1) duplicate sample.

The test pits were advanced by Garrow & Sons of Plattsburgh, New York using an excavator. Groundwater was generally observed between 3.5 and 6.0 feet bgs in the test pits. Soil in the test pits were visually observed for any obvious signs of impacts and soil type. The soils generally consisted of sands and silts. No obvious visual or olfactory evidence of contamination was observed in the test pit locations. Once the excavator had exposed saturated soils in the soil/groundwater interface, the KAS scientist used nitrile gloves to expose virgin soils along the perimeter of the test pit and collected a grab sample of the soil. The KAS scientist ensured that no saturated soils were collected that had come in contact with the excavator bucket to avoid potential cross-contamination between test pits. Nitrile gloves were changed after each sample was collected and in accordance with NYSDEC, United States Environmental Protection Agency (EPA) and KAS protocols the sampler avoided wearing clothing that could cross-contaminate the soil samples. Soil from the five (5) test pits within an area were homogenized in PFAS/PFOS free baggies and then placed into laboratory-provided containers. Once the samples were collected, they were placed on ice and transported to Alpha Analytical of Mansfield, MA by a courier for analysis of PFAS by SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312.

4.3 Soil Sample Laboratory Analysis

The laboratory analytical report is included in Appendix B. All five (5) samples were analyzed for PFAS by SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312. There were several low-level detections of PFAS in all five (5) soil samples. The total concentrations of PFAS in the soil samples ranged from 2.027 nanograms per Liter (ng/L) or parts per trillion (ppt) to 10.652 ng/L. Based on the *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, the sample results were compared to the current guidance value of 70 ppt used for determining whether on-site soils require cleaning/special handling. All the sample results were well below the guidance value.

5.0 CONCLUSIONS

Based on the pre-characterization completed at Lot D on the former Clinton County Airport in Plattsburgh, New York. The following conclusions are offered:

1. A total of twenty (20) test pits were advanced into to the water table (saturated soils), which ranged from 4 to 8 feet bgs and groundwater was encountered between 3.5 to 6.0 feet bgs. Saturated soils were collected from each test pit and the soil from five (5) discrete test pit locations in a given area (see Sample Location Map in Appendix A) were composited into one (1) soil sample for laboratory analysis. The saturated soils in the test pits were considered to be representative of the soils to be encountered during redevelopment in each of the areas;
2. A total of four (4) soil samples along with a duplicate sample were submitted to an ELAP-approved laboratory and analyzed for PFAS by SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312; and,
3. Low level detections of various PFAS constituents were identified in all five (5) of the soil samples. The total PFOS/PFAS concentrations that were identified ranged from 2.027 nanograms per Liter (ng/L) or parts per trillion (ppt) to 10.652 ng/L (ppt).

6.0 RECOMMENDATIONS

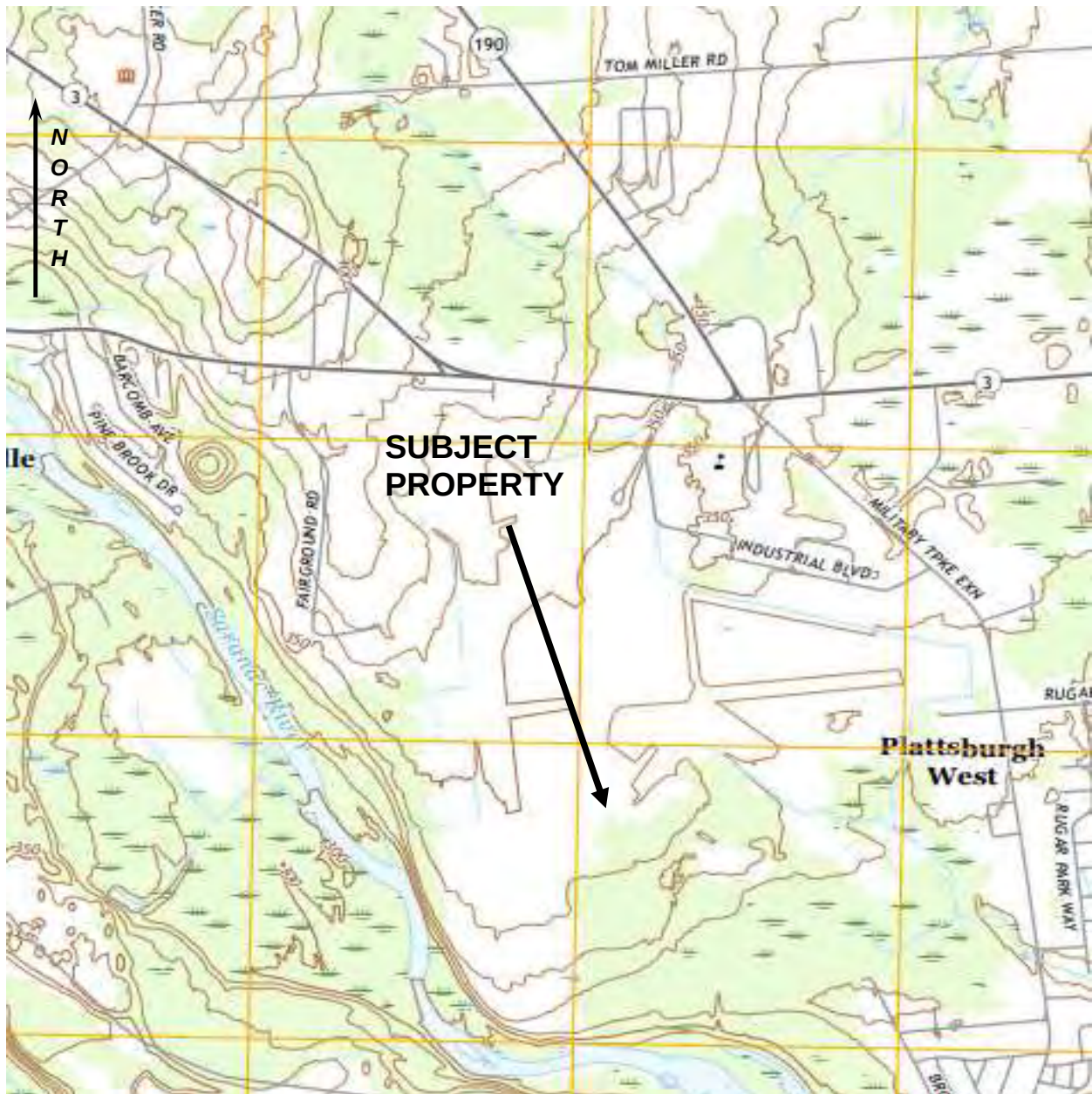
The concentrations of PFAS detected in saturated soils were below the current guidance values for soils requiring cleanup on-site outlined in the *Sampling, Analysis, and Assessment of PFAS\ Under NYSDEC's Part 375 Remedial Program*. KAS presents the following recommendations:

- A copy of this report should be presented to the NYSDEC;
- Soils that were pre-characterized as part of this assessment do not require treatment and/or disposal based on the findings and can be reused onsite. If additional soils within the soil/groundwater interface are encountered outside of the pre-characterized areas they will need to be stockpiled on poly for analysis; and,
- A soil/groundwater management plan should be prepared on how to properly handle the groundwater and soil that has not been pre-characterized during redevelopment activities. The plan should be approved by NYSDEC and followed during construction activities.



APPENDIX A

- 1) Site Location Map**
- 2) Sample Location Map**



KAS Job Number **508212230**
 Source: **USGS Store**



Industrial Boulevard Plattsburgh, New York

2019 USGS Topographic Map

Date: 09/20/21	Drawing No. 0	Scale: NTS	By: AH
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REVISIONS		
#	BY	DATE

CUT/FILL
PLAN

PROJECT NO. 21049
DATE 12-16-21
DRAWN BY DLL
CHECKED BY JAA

C1

CUT / FILL SUMMARY					
2D AREA	CUT	FILL	NET	CONCRETE / PAVEMENT / GRAVEL SURFACE VOLUME	ADJUSTED NET
1760674 SF	23,202 CY	405,227 CY	382,025 CY <FILL>	46,851 CY	335,174 CY <FILL>

HATCH LEGEND

	CUT VOLUME (MAX. ±12')
	FILL VOLUME (MAX. ±16')

LEGEND

	EXISTING / NEW MANHOLE
	EXISTING / NEW WELL
	EXISTING / NEW MANHOLE
	EXISTING / NEW UTILITY POLE
	EXISTING / NEW FIRE HYDRANT
	EXISTING / NEW WATER CURB STOP
	EXISTING / NEW EASEMENT BOUNDARY
	BUILDING SETBACKS
	EXISTING / NEW TREE LINE
	PROPERTY LINE ABUTTERS
	EXISTING / NEW PROPERTY LINE
	EXISTING / NEW DITCH CENTERLINE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	EXISTING / NEW STORM DRAIN
	EXISTING / NEW WATER SERVICE
	EXISTING / NEW SEWER SERVICE
	EXISTING / NEW GAS MAIN
	EXISTING / NEW UNDERGROUND UTILITIES
	EXISTING / NEW OVERHEAD UTILITIES
	EXISTING / NEW BUILDING
	EXISTING / NEW CONCRETE CURB (FULL / DROP)
	EXISTING / NEW CONCRETE SIDEWALK / PAD
	EXISTING / NEW PAVEMENT
	EXISTING / NEW GRAVEL

SOIL BORING SCHEDULE

ID	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13	B-14	B-15	B-16	B-17	B-18
SURFACE ELEV.	±343	±346	±349	±349	±350	±346	±346	±343	±341	±340	±341	±343	±342	±339	±340	±340	±340	±340
DEPTH TO WATER TABLE	5.0 FT	5.5 FT	5.2 FT	6.0 FT	7.1 FT	5.0 FT	5.0 FT	3.0 FT	3.2 FT	5.0 FT	3.5 FT	2.5 FT	6.0 FT	3.5 FT	6.0 FT	4.0 FT	3.0 FT	3.0 FT

ID	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	PC-1	PC-2	PC-3	PC-4	IW-1	IW-2	IW-3	IW-4
SURFACE ELEV.	±342	±341	±342	±344	±352	±351	±352	±350	±346	±344	±340	±341	±37	±353	±336	±337	±343	±344
DEPTH TO WATER TABLE	5.0 FT	4.0 FT	5.0 FT	4.0 FT	8.0 FT	8.0 FT	7.0 FT	6.0 FT	5.0 FT	4.5 FT	4.0 FT	2.5 FT	2.5 FT	8.0 FT	2.0 FT	2.0 FT	4.0 FT	4.0 FT

CUT/FILL PLAN

SCALE: 1" = 100'

GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft.



APPENDIX B

LABORATORY ANALYTICAL TABLE



Sampling Data Summary
Pre-Characterization
Industrial Boulevard, Plattsburgh, New York

	Soil					
<i>Sample Identification</i>	<i>Ex Area 1</i>	<i>Ex Area 2</i>	<i>Ex Area 3</i>	<i>Ex Area 4</i>	<i>DUPE</i>	<i>Individual or</i>
<i>Sample Date</i>	<i>1/31/22</i>	<i>1/31/22</i>	<i>1/31/22</i>	<i>1/31/22</i>	<i>1/31/22</i>	<i>Combined</i>
<i>Approx. Depth to Water (Feet below ground surface)</i>	<i>3.5'</i>	<i>4.0'</i>	<i>4.5'</i>	<i>6.0'</i>	<i>6.0'</i>	<i>Guidance Levels</i>
EPA Method 1312 - SPLP (Soil - ng/L)						
Perfluorobutanoic acid (PFBA)	0.660	0.798	ND	ND	ND	70
Perfluoropentanoic acid (PFPeA)	0.986	0.645	0.682	0.610	0.379	70
Perfluorohexanoic acid (PFHxA)	0.649	0.382	ND	ND	ND	70
Perfluoroheptanoic acid (PFHpA)	0.394	0.309	ND	ND	ND	70
Perfluorohexane sulfonic acid (PFHxS)	ND	ND	0.628	ND	ND	70
Perfluorooctanoic acid (PFOA)	0.653	0.687	ND	ND	ND	70
Perfluorooctane sulfonic acid (PFOS)	1.21	1.63	7.85	0.560	1.08	70
Perfluoroundecanoic acid (PFUnA)	ND	ND	0.492	ND	ND	70
Perfluorotetradecanoic Acid (PFTA)	0.782	0.736	1.00	0.857	0.688	70
Total Reported PFAS	5.334	5.187	10.652	2.027	2.147	70

NOTES:

All soil values reported in ng/L, unless otherwise indicated.

Above Standard

ND = Not Detected< Detection Limit

NS = No standard

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at/ above the unrestricted use are shaded.

GUIDELINES FOR SAMPLING AND ANALYSIS OF PFAS

Under NYSDEC's Part 375 Remedial Programs



APPENDIX C

LABORATORY ANALYTICAL REPORT



ANALYTICAL REPORT

Lab Number:	L2205304
Client:	KAS, Inc. 589 Avenue D, Suite 10 Williston, VT 05495
ATTN:	Anthony Harvey
Phone:	(802) 383-0486
Project Name:	FORMER AIRPORT
Project Number:	508215230
Report Date:	02/21/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2205304-01	EX AREA 1	SOIL	INDUSTRIAL BLVD	01/31/22 08:30	02/01/22
L2205304-02	EX AREA 2	SOIL	INDUSTRIAL BLVD	01/31/22 10:00	02/01/22
L2205304-03	EX AREA 3	SOIL	INDUSTRIAL BLVD	01/31/22 11:00	02/01/22
L2205304-04	EX AREA 4	SOIL	INDUSTRIAL BLVD	01/31/22 13:00	02/01/22
L2205304-05	DUPE	SOIL	INDUSTRIAL BLVD	01/31/22 13:00	02/01/22

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Case Narrative (continued)

Report Submission

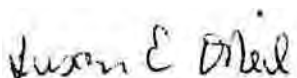
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

SPLP Perfluorinated Alkyl Acids by Isotope Dilution

WG1604926-5: This blank represents the SPLP tumbling blank associated with L2205304-01 through -05.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Susan O'Neil

Title: Technical Director/Representative

Date: 02/21/22

ORGANICS

SEMIVOLATILES

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-01
Client ID: EX AREA 1
Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 08:30
Date Received: 02/01/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 18:23
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

TCLP/SPLP Ext. Date: 02/10/22 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.660	J	ng/l	1.90	0.387	1
Perfluoropentanoic Acid (PFPeA)	0.986	J	ng/l	1.90	0.376	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	0.649	J	ng/l	1.90	0.311	1
Perfluoroheptanoic Acid (PFHpA)	0.394	J	ng/l	1.90	0.214	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.90	0.357	1
Perfluorooctanoic Acid (PFOA)	0.653	J	ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.653	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	1.21	JF	ng/l	1.90	0.478	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.90	0.288	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.615	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.247	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.930	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.550	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.763	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.353	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.310	1
Perfluorotetradecanoic Acid (PFTA)	0.782	J	ng/l	1.90	0.235	1

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-01
Client ID: EX AREA 1
Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 08:30
Date Received: 02/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	95		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	85		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	70		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-02
Client ID: EX AREA 2
Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 10:00
Date Received: 02/01/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 18:56
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

TCLP/SPLP Ext. Date: 02/10/22 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.798	J	ng/l	1.91	0.389	1
Perfluoropentanoic Acid (PFPeA)	0.645	J	ng/l	1.91	0.378	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.91	0.227	1
Perfluorohexanoic Acid (PFHxA)	0.382	J	ng/l	1.91	0.313	1
Perfluoroheptanoic Acid (PFHpA)	0.309	J	ng/l	1.91	0.215	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.91	0.359	1
Perfluorooctanoic Acid (PFOA)	0.687	J	ng/l	1.91	0.225	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.91	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.91	0.656	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.91	0.298	1
Perfluorooctanesulfonic Acid (PFOS)	1.63	J	ng/l	1.91	0.481	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.91	0.290	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.91	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.91	0.618	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.91	0.248	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.91	0.935	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.91	0.553	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.91	0.767	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.91	0.355	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.91	0.312	1
Perfluorotetradecanoic Acid (PFTA)	0.736	J	ng/l	1.91	0.236	1

Project Name: FORMER AIRPORT

Lab Number: L2205304

Project Number: 508215230

Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-02

Date Collected: 01/31/22 10:00

Client ID: EX AREA 2

Date Received: 02/01/22

Sample Location: INDUSTRIAL BLVD

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	122		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	96		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-03
Client ID: EX AREA 3
Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 11:00
Date Received: 02/01/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 19:29
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

TCLP/SPLP Ext. Date: 02/10/22 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.06	0.421	1
Perfluoropentanoic Acid (PFPeA)	0.682	J	ng/l	2.06	0.409	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.06	0.246	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.06	0.339	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.06	0.232	1
Perfluorohexanesulfonic Acid (PFHxS)	0.628	J	ng/l	2.06	0.388	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.06	0.244	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.06	1.38	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.06	0.710	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.06	0.322	1
Perfluorooctanesulfonic Acid (PFOS)	7.85		ng/l	2.06	0.520	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.06	0.314	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.06	1.25	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.06	0.669	1
Perfluoroundecanoic Acid (PFUnA)	0.492	J	ng/l	2.06	0.268	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.06	1.01	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.06	0.599	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.06	0.830	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.06	0.384	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.06	0.338	1
Perfluorotetradecanoic Acid (PFTA)	1.00	J	ng/l	2.06	0.256	1

Project Name: FORMER AIRPORT

Lab Number: L2205304

Project Number: 508215230

Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-03
 Client ID: EX AREA 3
 Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 11:00
 Date Received: 02/01/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	125		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	98		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	114		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	102		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-04
Client ID: EX AREA 4
Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 13:00
Date Received: 02/01/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 19:46
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

TCLP/SPLP Ext. Date: 02/10/22 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.93	0.394	1
Perfluoropentanoic Acid (PFPeA)	0.610	J	ng/l	1.93	0.382	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.93	0.230	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.93	0.317	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.93	0.217	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.93	0.363	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.93	0.228	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.93	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.93	0.664	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.93	0.301	1
Perfluorooctanesulfonic Acid (PFOS)	0.560	J	ng/l	1.93	0.486	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.93	0.293	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.93	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.93	0.626	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.93	0.251	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.93	0.946	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.93	0.560	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.93	0.776	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.93	0.359	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.93	0.316	1
Perfluorotetradecanoic Acid (PFTA)	0.857	J	ng/l	1.93	0.239	1

Project Name: FORMER AIRPORT**Lab Number:** L2205304**Project Number:** 508215230**Report Date:** 02/21/22**SAMPLE RESULTS**

Lab ID: L2205304-04

Date Collected: 01/31/22 13:00

Client ID: EX AREA 4

Date Received: 02/01/22

Sample Location: INDUSTRIAL BLVD

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	123		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	90		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-05
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 13:00
Date Received: 02/01/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 20:03
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

TCLP/SPLP Ext. Date: 02/10/22 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.86	0.379	1
Perfluoropentanoic Acid (PFPeA)	0.379	J	ng/l	1.86	0.368	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.86	0.221	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.86	0.305	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.86	0.209	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.86	0.349	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.86	0.219	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.86	1.24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.86	0.639	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.86	0.290	1
Perfluorooctanesulfonic Acid (PFOS)	1.08	J	ng/l	1.86	0.468	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.86	0.282	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.86	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.86	0.602	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.86	0.242	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.86	0.911	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.86	0.539	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.86	0.747	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.86	0.346	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.86	0.304	1
Perfluorotetradecanoic Acid (PFTA)	0.688	J	ng/l	1.86	0.230	1

Project Name: FORMER AIRPORT

Lab Number: L2205304

Project Number: 508215230

Report Date: 02/21/22

SAMPLE RESULTS

Lab ID: L2205304-05
 Client ID: DUPE
 Sample Location: INDUSTRIAL BLVD

Date Collected: 01/31/22 13:00
 Date Received: 02/01/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	118		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	123		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	96		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	122		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 17:17
Analyst: SG
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-05 Batch: WG1604926-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	0.804	J	ng/l	2.00	0.248



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/15/22 17:17
Analyst: SG
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 02/15/22 05:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-05 Batch: WG1604926-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	126		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	119		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	112		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	123		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	66		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	72		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		22-136



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 02/15/22 17:50
 Analyst: SG
 TCLP/SPLP Extraction Date: 02/10/22 15:19

Extraction Method: ALPHA 23528
 Extraction Date: 02/15/22 05:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-05 Batch: WG1604926-5					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.89	0.386
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.89	0.375
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.89	0.225
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.89	0.311
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.89	0.213
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.89	0.356
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.89	0.224
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.89	1.26
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.89	0.652
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.89	0.296
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.89	0.478
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.89	0.288
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.89	1.15
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.89	0.614
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.89	0.246
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.89	0.928
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.89	0.550
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.89	0.762
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.89	0.352
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.89	0.310
Perfluorotetradecanoic Acid (PFTA)	0.800	J	ng/l	1.89	0.235

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 02/15/22 17:50
 Analyst: SG
 TCLP/SPLP Extraction Date: 02/10/22 15:19

Extraction Method: ALPHA 23528
 Extraction Date: 02/15/22 05:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-05 Batch: WG1604926-5					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	120		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	108		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	70		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 02/15/22 18:07
 Analyst: SG
 TCLP/SPLP Extraction Date: 02/11/22 16:11

Extraction Method: ALPHA 23528
 Extraction Date: 02/15/22 05:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-05 Batch: WG1604926-6					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.89	0.386
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.89	0.374
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.89	0.225
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.89	0.310
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.89	0.213
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.89	0.355
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.89	0.223
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.89	1.26
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.89	0.650
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.89	0.295
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.89	0.476
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.89	0.287
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.89	1.14
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.89	0.612
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.89	0.246
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.89	0.926
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.89	0.548
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.89	0.760
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.89	0.352
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.89	0.309
Perfluorotetradecanoic Acid (PFTA)	0.786	J	ng/l	1.89	0.234

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 02/15/22 18:07
 Analyst: SG
 TCLP/SPLP Extraction Date: 02/11/22 16:11

Extraction Method: ALPHA 23528
 Extraction Date: 02/15/22 05:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-05 Batch: WG1604926-6					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	127		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	112		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	69		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	68		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		22-136



Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2205304

Report Date: 02/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1604926-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	110		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	94		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	97		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	90		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	100		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	92		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	87		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	120		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	104		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	92		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	87		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	113		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	82		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	94		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	89		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	96		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	82		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	81		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Lab Number: L2205304

Project Number: 508215230

Report Date: 02/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1604926-2

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	128				70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	136				12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	113				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	124				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	89				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	81				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	81				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	69				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	95				22-136

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2205304

Report Date: 02/21/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1604926-3 QC Sample: L2205304-01 Client ID: EX AREA 1												
Perfluorobutanoic Acid (PFBA)	0.660J	37.5	38.1	100	-	-	-	-	67-148	-	-	30
Perfluoropentanoic Acid (PFPeA)	0.986J	37.5	43.2	113	-	-	-	-	63-161	-	-	30
Perfluorobutanesulfonic Acid (PFBS)	ND	33.3	30.3	91	-	-	-	-	65-157	-	-	30
Perfluorohexanoic Acid (PFHxA)	0.649J	37.5	36.6	96	-	-	-	-	69-168	-	-	30
Perfluoroheptanoic Acid (PFHpA)	0.394J	37.5	35.2	93	-	-	-	-	58-159	-	-	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	34.2	34.6	101	-	-	-	-	69-177	-	-	30
Perfluorooctanoic Acid (PFOA)	0.653J	37.5	35.4	93	-	-	-	-	63-159	-	-	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	35.7	38.8	109	-	-	-	-	49-187	-	-	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35.7	31.8	89	-	-	-	-	61-179	-	-	30
Perfluorononanoic Acid (PFNA)	ND	37.5	46.0	123	-	-	-	-	68-171	-	-	30
Perfluorooctanesulfonic Acid (PFOS)	1.21JF	34.8	37.1	103	-	-	-	-	52-151	-	-	30
Perfluorodecanoic Acid (PFDA)	ND	37.5	33.5	89	-	-	-	-	63-171	-	-	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	36	32.1	89	-	-	-	-	56-173	-	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.5	37.4	100	-	-	-	-	60-166	-	-	30
Perfluoroundecanoic Acid (PFUnA)	ND	37.5	32.8	88	-	-	-	-	60-153	-	-	30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.1	35.3	98	-	-	-	-	38-156	-	-	30
Perfluorooctanesulfonamide (FOSA)	ND	37.5	35.2	94	-	-	-	-	46-170	-	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.5	39.1	104	-	-	-	-	45-170	-	-	30
Perfluorododecanoic Acid (PFDoA)	ND	37.5	33.4	89	-	-	-	-	67-153	-	-	30
Perfluorotridecanoic Acid (PFTrDA)	ND	37.5	28.9	77	-	-	-	-	48-158	-	-	30
Perfluorotetradecanoic Acid (PFTA)	0.782J	37.5	29.6	77	-	-	-	-	59-182	-	-	30

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2205304**Report Date:** 02/21/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1604926-3 QC Sample: L2205304-01 Client ID: EX AREA 1

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	85				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	99				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77				14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	80				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	39				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	75				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	59				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	124				70-131

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2205304

Report Date: 02/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1604926-4 QC Sample: L2205304-02 Client ID: EX AREA 2						
Perfluorobutanoic Acid (PFBA)	0.798J	0.717J	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	0.645J	0.690J	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	0.382J	0.349JF	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	0.309J	0.252J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	0.687J	0.473J	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	1.63J	1.30J	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2205304

Report Date: 02/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1604926-4 QC Sample: L2205304-02 Client ID: EX AREA 2						
Perfluorotetradecanoic Acid (PFTA)	0.736J	0.713J	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		94		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		105		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	122		127		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	96		95		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		93		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		107		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		122		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		97		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74		79		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		77		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		112		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		100		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		78		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		69		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		105		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25		47		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		98		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		97		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		87		22-136

Project Name: FORMER AIRPORT**Lab Number:** L2205304**Project Number:** 508215230**Report Date:** 02/21/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2205304-01A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		-
L2205304-01B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-01C	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-01W	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-01X	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-01X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2205304-01Y	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-01Z	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-02A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		-
L2205304-02B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-02C	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-02W	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-02X	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-02X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2205304-02Y	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-02Z	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-03A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		-
L2205304-03B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-03C	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-03W	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-03X	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-03X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2205304-03Y	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No:02212214:33
Lab Number: L2205304
Report Date: 02/21/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2205304-03Z	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-04A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		-
L2205304-04B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-04C	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-04W	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-04X	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-04X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2205304-04Y	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-04Z	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-05A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		-
L2205304-05B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-05C	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2205304-05W	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-05X	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-05X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2205304-05Y	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2205304-05Z	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No:02212214:33
Lab Number: L2205304
Report Date: 02/21/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSA's)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESA's)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCA's)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonfluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2205304
Report Date: 02/21/22

REFERENCES

- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



APPENDIX D

RESUMES



**KAS, INC.
PROFESSIONAL PROFILE**

ANTHONY HARVEY

TITLE	Project Manager/Engineer, Plattsburgh
EXPERTISE	Environmental project management, client management, property due diligence assessments, construction monitoring, geotechnical/subsurface investigation, contaminated site investigation and clean up.
EXPERIENCE	KAS, Inc., Williston, Vermont. February 2017 – Present. Project Manager/Engineer in KAS's Plattsburgh, New York office. Project management of Phase I Environmental Site Assessments, collection of wastewater samples, stormwater pollution prevention plan (SWPPP) inspections, Spill Prevention, Control, and Countermeasure (SPCC) plans, construction monitoring, septic design, site investigation and remediation, subsurface investigation, and underground storage tank removal. Sanborn Head and Associates, Inc., Westford, Massachusetts 2014-2016. Conducted and managed Phase I Environmental Site Assessments, subsurface investigations, construction monitoring, soil density testing, operations and maintenance of remediation systems, tank pulls, groundwater sampling, monitoring well installation, and marketing/client interaction. ECS Mid-Atlantic, LLC, Baltimore, Maryland 2013-2014. Conducted Phase I and Phase II Environmental Site Assessments, asbestos sampling, mold abatement, project management, marketing, and proposal development.
ACADEMIC BACKGROUND	M.S., Clarkson University, Environmental Science and Engineering, 2013 B.S., Clarkson University, Biology, 2011
PROFESSIONAL QUALIFICATIONS	ASTM/EPA Environmental Professional
OTHER	OSHA 1910.120 Hazardous Waste Site Worker NYSDEC 4-Hour Erosion and Sediment Control Training Troxler Nuclear Density Gauge Training



**CUMBERLAND BAY GEOLOGY, DPC
PROFESSIONAL PROFILE**

JEREMY P. ROBERTS, P.G.

TITLE	Principal
EXPERTISE	Environmental program project management. Collection of environmental samples and operation and maintenance of hazardous waste treatment systems. Project management, geological investigations, hazardous waste site assessments, water system monitoring and maintenance, groundwater and soil contamination, remedial system design, installation, and operation. Wetland delineation. Phase I and Phase II Environmental Site Assessments.
EXPERIENCE	Cumberland Bay Geology, DPC, Plattsburgh, NY August 2019 – Present. Oversight of New York State environmental projects, including environmental site assessments, UST removals, site investigations, and environmental cleanup activities. KAS, Inc., Williston, VT October 2004 – Present. Management of KAS' environmental projects/ programs, including environmental site assessments, UST removals, site investigations, and environmental cleanup activities. Foster technical innovation, quality control and assurance on projects and written materials. Business development activities for environmental programs. Project Management. Griffin International, Inc., Williston, VT January 2002 – October 2004. Project management. Technical report writing. Geological investigations. Hazardous waste site assessments. Phase I and Phase II environmental site assessments. Collection of groundwater, surface water, and soil samples, soil screening, and soil vapor extraction system monitoring and maintenance.
ACADEMIC BACKGROUND	BS, Plant and Soil Science, University of Vermont. May 1999.
PROFESSIONAL QUALIFICATIONS	New York Licensed Geologist #000453-1 ASTM/EPA Environmental Professional 40 Hour OSHA 29CFR1910.120 Hazardous Worker Training 40 Hour Certification in Federal Wetland Delineation, Identification, and Classification. Vermont Certified Asbestos Site Inspector ASTM Phase I Environmental Site Assessment Practices For Commercial Real Estate: Transaction Screen & Phase I Site Assessment, April 2012 IAQ/IH Sampling Workshop, August 2012 Practical Guide to Vapor Intrusion Course, April 2016



APPENDIX D

Site Characterization Report

Former Clinton County Airport Lot A, D and J Plattsburgh, NY 12901

NYSDEC SITE NO. 510026
KAS Project #508215230

SITE CHARACTERIZATION REPORT – STAGE 1

May 27, 2022

Prepared for:

Clinton County Government
137 Margaret Street
Plattsburgh, New York 12901





Table of Contents

1.0 EXECUTIVE SUMMARY	1
2.0 REPORT PREPARATION/CERTIFICATION	3
3.0 INTRODUCTION / BACKGROUND / OBJECTIVES.....	4
3.1 Introduction.....	4
3.2 Background	4
4.0 SITE CHARACTERIZATION	6
4.1 Pre-Sampling Activities	6
4.2 Soil Boring Advancement and Sampling	6
4.3 Soil Sample Laboratory Analysis	7
4.4 Quality Assurance / Quality Control	7
4.5 Ambient Air	8
5.0 CONCLUSIONS.....	8
6.0 RECOMMENDATIONS	9

Appendices

APPENDIX A -	Maps
	1) Site Location Map
	2) Soil Boring Location Map
APPENDIX B -	Data Summary Tables
APPENDIX C -	Laboratory Analytical Report
APPENDIX D -	Soil Boring Logs
APPENDIX E -	CAMP
APPENDIX F -	Resumes

1.0 EXECUTIVE SUMMARY

This report summarizes the site characterization conducted, under the supervision of a New York State professional geologist with Cumberland Bay Geology, DPC, at Lots A, D, and J on the former Clinton County Airport in Plattsburgh, New York. This site characterization is considered Stage 1 of the characterization work and focused on surface and subsurface soils on Lots A, D and J (herein referred to as the Site). The scope of work performed was outlined in the Revised Site Characterization Work Plan dated April 15, 2022 and approved by the New York State Department of Environmental Conservation (NYSDEC) on April 26, 2022.

Specifically, this site characterization work was performed to identify and document potential impacts in soils pertaining to Per- and Polyfluoroalkyl Substances (PFAS), Target Compound List (TCL), Target Analyte List (TAL), and cyanide. The TCL includes volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides and the TAL includes metals. The soil data will also be used to update the approved Soil and Groundwater Management Plan that will provide guidance during planned redevelopment activities for the Site.

Based on the field observations, measurements, and laboratory results, KAS presents the following conclusions:

1. A total of twenty-eight (28) soil borings were advanced into the water table (saturated soils) to depths ranging from 4 to 12 feet below ground surface (bgs) with groundwater encountered between 2.5 to 6.0 feet bgs. Soil samples were collected for laboratory analysis from each boring (28 total) at the soil/groundwater interface for PFAS. Additionally, eight (8) surface soil samples were collected from select borings and analyzed for PFAS, TCL, TAL, and cyanide and eleven (11) of the soil samples collected at the soil/groundwater interface were submitted and analyzed for TCL, TAL and cyanide;
2. Field measurements (photoionization detector (PID) readings of soils for VOCs) and observations (visual and olfactory) did not identify any obvious signs of subsurface impacts;
3. Low level detections of various PFAS were identified in sixteen (16) of the thirty-seven (37) soil samples (including the duplicate sample). The total PFAS concentrations that were identified ranged from 0.031 nanograms per gram (ng/g) or parts per trillion (ppt) to 5.25 ng/g (ppt). Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) results were compared to the June 2021 Sampling, Analysis, and Assessment of PFAS and found to be below Unrestricted soil cleanup guidance values; and,
4. The majority TCL, TAL and cyanide samples analyzed were non-detect. The samples with detections had detections below the NYSDEC Soil Cleanup Objectives (SCO) – Unrestricted Use Standards with the exception of two samples (SB-5 and SB-6), which had detections of Acetone that exceed the NYSDEC SCO – Unrestricted Use Standard. However, Acetone is a common laboratory contaminant and in KAS' professional judgment it is likely the laboratory contamination is the cause of the detection of Acetone. The detection also had a qualifier note that it was an estimated value by the laboratory.



Based on the findings, KAS presents the following recommendations:

- No additional site characterization work associated with soils on Lot A, D and J appears warranted;
- The Soil and Groundwater Management Plan should be modified to address these findings of this report;
- A copy of this report must be provided to the NYSDEC; and,
- If conditions are encountered during planned redevelopment activities on Lot A, D and J that differ from those identified in this report, an environmental professional should be contacted to assess the soils to ensure proper handling.



2.0 REPORT PREPARATION/CERTIFICATION

KAS, Inc. (KAS) has performed site characterization, under the supervision of New York State professional geologist, at Lot A, D and J on the former Clinton County Airport in Plattsburgh, New York. This report has been prepared and reviewed by the following personnel. The project was performed by KAS under the supervision of Cumberland Bay Geology, DPC.

We certify under penalty of perjury that we are environmental professionals and that all content contained within this deliverable is to the best of our knowledge true and accurate.

Prepared By:

A handwritten signature in black ink, appearing to read "AH", is written over a horizontal line.

Anthony Harvey
Project Manager, KAS, Inc.

Reviewed By:

A handwritten signature in black ink, appearing to read "JR", is written over a horizontal line.

Jeremy Roberts, P.G.
Principal, Cumberland Bay Geology, DPC

3.0 INTRODUCTION / BACKGROUND / OBJECTIVES

3.1 Introduction

This report summarizes the site characterization conducted at Lots A, D, and J on the former Clinton County Airport in Plattsburgh, New York (Site). A Site Location Map is included in Appendix A. The assessment was performed by KAS, Inc. (KAS), under the supervision of a New York State professional geologist with Cumberland Bay Geology, DPC. KAS performed this assessment for Barton & Loguidice, D.P.C (B&L) on behalf of Clinton County Government. This site characterization work focused on soils on Lots A, D and J (Stage 1) that will be disturbed during planned redevelopment activities for Spring 2022 and this data will be supplemented by subsequent site characterization work associated with other lots and groundwater at/beneath the former Clinton County Airport.

3.2 Background

The Site is located on a portion of the former Clinton County Airport in the Town of Plattsburgh. The groundwater flow direction beneath the Site is anticipated to be toward the Saranac River, which is located approximately 1,000-feet to the south. The Saranac River, located proximate to the Site (Lower, Main Stem – Segment ID 1003-0049¹), is a Class C (fishing and non-contact activities) water body pursuant to 6 NYCRR Parts 700-705. The Site can be accessed from an access road that connects to Industrial Boulevard to the north. Currently, the planned redevelopment activities for the Site consist of the installation of a road/underground utilities and a warehouse (light industrial) building.

KAS previously completed a Phase I ESA (per ASTM E1527-13) for a portion of the Site (Lot D) in September 2021. The Site is currently a portion of a vacant airport. It appears that the former airport has been developed since at least 1944 and appeared to have been farmland prior to this use. The past use of the Site and surrounding areas as an airport is indicative of hazardous chemical storage and use which may include the use of firefighting foams containing Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA), which are Per- and Polyfluoroalkyl Substances (PFAS). PFAS are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Fluoropolymer coatings can be in a variety of products. These include clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, and the insulation of electrical wire.² Additionally, PFAS are known to have been used in firefighting foam and various other products. It is unknown if a release has occurred due to the past use as an airport but it is important to note the known presence of PFOS and PFOA, which are emerging contaminants by the United States Environmental Protection Agency (USEPA) and NYSDEC. Under the current Phase I ESA ASTM standard, the potential past use of PFOS/PFOAs are not considered to represent a recognized environmental condition (REC). The current ASTM standard defines a hazardous substance as, “a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C.§9601(14), as interpreted by EPA regulations and the courts: (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or

¹ <https://www.dec.ny.gov/data/WQP/PWL/1003-0049.html?req=19981>

² https://www.cdc.gov/biomonitoring/PFAS_FactSheet.html



listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended.” At the time of the Phase I ESA, PFOS/PFOAs were not CERCLA or RCRA listed hazardous substances. KAS considered the lack of data associated with PFOS and PFOAs at the Site to represent a data gap and that additional investigation would be necessary to determine if these compounds are present in the subsurface.

KAS completed a Phase II ESA on December 10, 2021 to address the data gap that was identified following the completion of the Phase I ESA (ASTM E1527-13) for Lot D on September 20, 2021. The findings of the Phase II ESA indicated that there were several low-level detections of PFAS in all five (5) groundwater samples collected as well as detections of PFOA and PFOS above the Guidelines for Sampling and Analysis of PFAS Under NYSDEC’s Part 375 Remedial Programs and the draft addendum to Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater.

In preparation for future redevelopment on Lot D, KAS conducted a pre-characterization investigation of saturated soils. KAS oversaw the advancement of a total of twenty (20) test pits to a maximum of 4 to 8 feet below ground surface (bgs). The test pits were advanced in areas where saturated soils may be encountered during redevelopment activities based on a cut/fill grading plan provided by Architectural & Engineering Design Associates, P.C. (AEDA). The test pits were grouped into four (4) distinct areas with five (5) test pits per area. Soils from the five (5) test pits within an area were composited into one (1) sample for laboratory analysis. KAS collected a total of four (4) soil samples, one (1) from each area, and one (1) duplicate sample. There were several detections of PFAS in the soil samples but none of the samples had exceedances of PFAS based on the Sampling, Analysis, and Assessment of PFAS Under New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs.

On February 24, 2022, Mr. Michael Zurlo, Clinton County Administrator, received a letter from the NYSDEC about a “Potential Hazardous Waste Disposal Site” for the following location:

Site Name: Former Clinton County Airport

Site Address: 11 Airport Road, Town of Plattsburgh, Clinton County, NY 12901

DEC Site No.: 510026

Tax Map Identifier: Section 220; Block 1; Lot 3; Sublot 1; Suffix 1

The letter stated, “If DEC determines that hazardous waste has been disposed of on the property and that the hazardous waste poses a significant threat to public health or the environment, the property will be listed on the Registry of Inactive Hazardous Waste Disposal Sites (Registry).” Subsequently, Clinton County has retained Barton & Loguidice, D.P.C. (B&L) to consult on their behalf and to perform/manage any investigation/characterization required by the NYSDEC. In a conference call with NYSDEC, Clinton County officials, AEDA, B&L, Jones Development (developer of Lot D) and KAS, it was indicated that a phased (staged) approach to the investigation (characterization) was acceptable with a focus on areas of the former airport that have planned redevelopment activities first with subsequent investigations (characterizations) to address the remaining areas of the property. Based on this guidance and the work already conducted by KAS on Lot D, B&L and Clinton County subcontracted KAS to complete activities associated with Lot D as well as Lots A and J, which will have infrastructure

(roads and utilities). A Site Characterization Work Plan was prepared by KAS and submitted on March 21, 2022. NYSDEC provided comments in a letter dated March 29, 2022.

On April 4, 2022, NYSDEC representatives Mr. Brian Huyck and Ms. Kaleigh Zappia met with Mr. Mike Zurlo (Clinton County), Ms. Molly Ryan (Clinton County), Mr. Bryce Dingman (B&L), Mr. Ryan Weitz (B&L), Mr. Jim Abdallah (AEDA), Mr. Aaron Roth (KAS), and Mr. Anthony Harvey (KAS) to discuss the objectives of the work plan and the stages of the investigation (characterization) to be performed. A revised work plan in response to NYSDEC's comments and subsequent meeting was submitted on April 15, 2022 and was accepted by the NYSDEC on April 26, 2022.

4.0 SITE CHARACTERIZATION

4.1 Pre-Sampling Activities

Prior to the initiation of work at the Site, KAS prepared a health and safety plan (HASP) and a Community Air Monitoring Plan (CAMP; see Appendix E) in accordance with OSHA, New York State Department of Health and the approved Work Plan requirements. The HASP and CAMP were present on site with field personnel during the course of the characterization work. UDig New York (formerly Dig Safely New York) was contacted a minimum of 72 hours prior to commencement of work to mark out underground utilities (Ticket # 04182-000-447). A dust monitor (Dustrak 8520) was placed downwind of ground intrusive activities and a photoionization detector (PID) was present at the point of soil boring advancements during all field activities.

4.2 Soil Boring Advancement and Sampling

Between April 26 and 28, 2022, a total of twenty-eight (28) soil borings were advanced to a maximum depth ranging from 4 to 12 feet bgs. The boring locations were approved in the Revised Site Characterization Work Plan by NYSDEC (see Appendix A – Boring Location Map). The soil borings were advanced using a track-mounted Geoprobe® rig with steel tooling and high-density polyethylene (HDPE) sleeves to prevent cross-contamination (commonly used low density polyethylene sleeves can contain PFAS). The steel tooling was decontaminated between borings using Alconox and distilled water. The KAS scientist overseeing the work and the drill rig operator used nitrile gloves and avoided clothing and other equipment that can cause cross-contamination in accordance with NYSDEC and KAS protocols. Soils within each boring were visually observed for any obvious signs of impacts and screened for the presence of volatile organic compounds (VOCs) using a properly calibrated PID. Soils were logged in the field by the KAS scientist to indicate soil type, observations and PID readings. All excess soil cuttings were placed back into the borehole in which they were collected. Soils consisted of sands, silts, gravel, and clay. Groundwater was encountered at depths ranging from approximately 2.5 to 6.0 feet bgs. Soil boring logs are included in Appendix D.

A soil sample was collected for laboratory analysis from each boring (28 total) at the soil/groundwater interface for analysis of PFAS. Eight (8) surface soil samples, from a depth of 0 – 2 feet bgs, were collected from select borings and analyzed for PFAS, Target Compound List (TCL), Target Analyte List (TAL), and cyanide and eleven (11) of the soil samples collected at the soil/groundwater interface were submitted and analyzed for TCL, TAL and cyanide. The TCL includes VOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls

(PCBs), and pesticides and the TAL includes metals. The soil boring locations and the sampling analysis at each location are shown on the Boring Location Map in Appendix A. Each soil sample was transferred from the HDPE sleeves to laboratory-provided containers, placed on ice, and shipped with a properly completed chain of custody to Alpha Analytical, a NYS-accredited laboratory, for analysis.

4.3 Soil Sample Laboratory Analysis

A tabulated summary table is included in Appendix B and the laboratory analytical report is included in Appendix C. Sixteen (16) of the thirty-seven (37) samples (36 and 1 DUPE) analyzed had low-level detections of PFAS. Based on the June 2021 *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, the sample results were compared to the current guidance values for PFOA and PFOS of 660 ppt and 880 ppt, respectively. All the sample results were below the Unrestricted guidance value for PFOA and PFOS with total PFAS detections ranging from 0.031 nanograms per gram (ng/g) or ppt to 5.25 ng/g (ppt). All of the remaining samples analyzed for TCL, TAL, and cyanide were below the NYSDEC Soil Cleanup Objectives – Unrestricted Use Standards except for two samples, which had exceedances of acetone. The appearance of acetone is often a laboratory contaminant and based on historical use of the property, KAS does not consider the presence of acetone in the samples to be related to historical property use. The detection of acetone also had a qualifier note that it was an estimated value by the laboratory. None of the samples that were analyzed for polychlorinated biphenyls (PCBs) or cyanide had detections above the laboratory reporting limits. Samples SB-2, SB-3 (0-2'), and SB-6 (0-2') had low-level detections of the pesticide Dichlorodiphenyldichloroethylene (4,4'-DDE) with the SB-6 (0-2') sample also containing a low-level detection of Dichlorodiphenyltrichloroethane (4,4'-DDT), all of which were below regulatory standards. Several metals including aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, thallium, vanadium, and zinc were detected in the samples, all of which were below the unrestricted use standard. SB-4 sample had a low-level detection of the VOC naphthalene which was below the unrestricted use standard. There were also low-level detections of SVOCs in SB-3(0-2'), SB-6 (0-2') and SB-21, all of which were below the unrestricted use standards.

4.4 Quality Assurance / Quality Control

A duplicate sample was collected from the soil/groundwater interface at SB-4 for quality assurance / quality control (QA/QC) purposes. The laboratory results from the duplicate sample (Dupe) was compared to the parent sample (SB-4) to assess the quality of the laboratory data. Both the duplicate and parent sample were non-detect for the vast majority of constituents analyzed. The only deviation was for Acetone and Naphthalene, which were detected in the parent sample (SB-4) and not the duplicate sample (Dupe). Acetone and Naphthalene are common laboratory contaminants and it is likely that the deviation in the laboratory results is due to low level contamination caused by cleaning and disinfecting laboratory equipment.

An equipment blank was collected to assess KAS' decontamination process and to determine if there is a likelihood of cross-contamination of PFAS between soil borings and the collection of soil samples. The equipment blank was non-detect for PFAS.

KAS also included an additional QA/QC measure with a comparison of PFAS analyses (Method 537.1 and Synthetic Precipitation Leaching Procedure (SPLP)). Two of the soil samples (SB-8 and SB-24), were analyzed for PFAS by Methods 537.1 and SPLP. The SPLP method determines the leachate potential and is a modified groundwater analysis that can have more sensitive detection limits. When comparing these results, SB-8 had no detections of PFAS using the 537.1 Method, but had a total PFAS concentration of 39.385 ng/L using the SPLP method. The SB-24 sample was also non-detect for PFAS using the 537.1 Method and had a total PFAS concentration of 5.270 ng/L using the SPLP method, which is below the guidance value. The variation in laboratory results indicates the difficulties in assessing PFAS to the low detection limits required (parts per trillion). It does appear that SPLP analysis is more sensitive; however, given the overall low detections reported the 537.1 Method analysis does appear adequate in assessing the PFAS impacts.

4.5 Ambient Air

During the field work, downwind ambient air was monitored by a PID and a Dustrak 8520 meter in accordance with the CAMP prepared for the Site (see Appendix E). No PID readings were detected and no exceedances of dust as outlined by the CAMP were noted (see Appendix B).

5.0 CONCLUSIONS

Based on Stage 1 of the site characterization completed at Lot A, D and J on the former Clinton County Airport in Plattsburgh, New York, the following conclusions are offered:

1. A total of twenty-eight (28) soil borings were advanced into the water table (saturated soils) to depths ranging from 4 to 12 feet bgs with groundwater encountered between 2.5 to 6.0 feet bgs. Soil samples were collected for laboratory analysis from each boring (28 total) at the soil/groundwater interface for PFAS. Additionally, eight (8) surface soil samples were collected from select borings and analyzed for PFAS, TCL, TAL, and cyanide and eleven (11) of the soil samples collected at the soil/groundwater interface were submitted and analyzed for TCL, TAL and cyanide;
2. Field measurements (PID readings of soils for VOCs) and observations (visual and olfactory) did not identify any obvious signs of subsurface impacts;
3. Low level detections of various PFAS were identified in sixteen (16) of the thirty-seven (37) soil samples (including the duplicate sample). The total PFAS concentrations that were identified ranged from 0.031 to 5.25 ng/g or ppt. PFOA and PFOS results were compared to the June 2021 Sampling, Analysis, and Assessment of PFAS and found to be below Unrestricted soil cleanup guidance values; and,
4. The majority TCL, TAL and cyanide samples analyzed were non-detect. The samples with detections had detections below the NYSDEC SCO – Unrestricted Use Standards with the exception of two samples (SB-5 and SB-6), which had detections of Acetone that exceed the NYSDEC SCO – Unrestricted Use Standard. However, Acetone is a common laboratory contaminant and in KAS' professional judgment it is likely the laboratory contamination is the cause of the detection of Acetone. The detection also had a qualifier note that it was an estimated value by the laboratory.



6.0 RECOMMENDATIONS

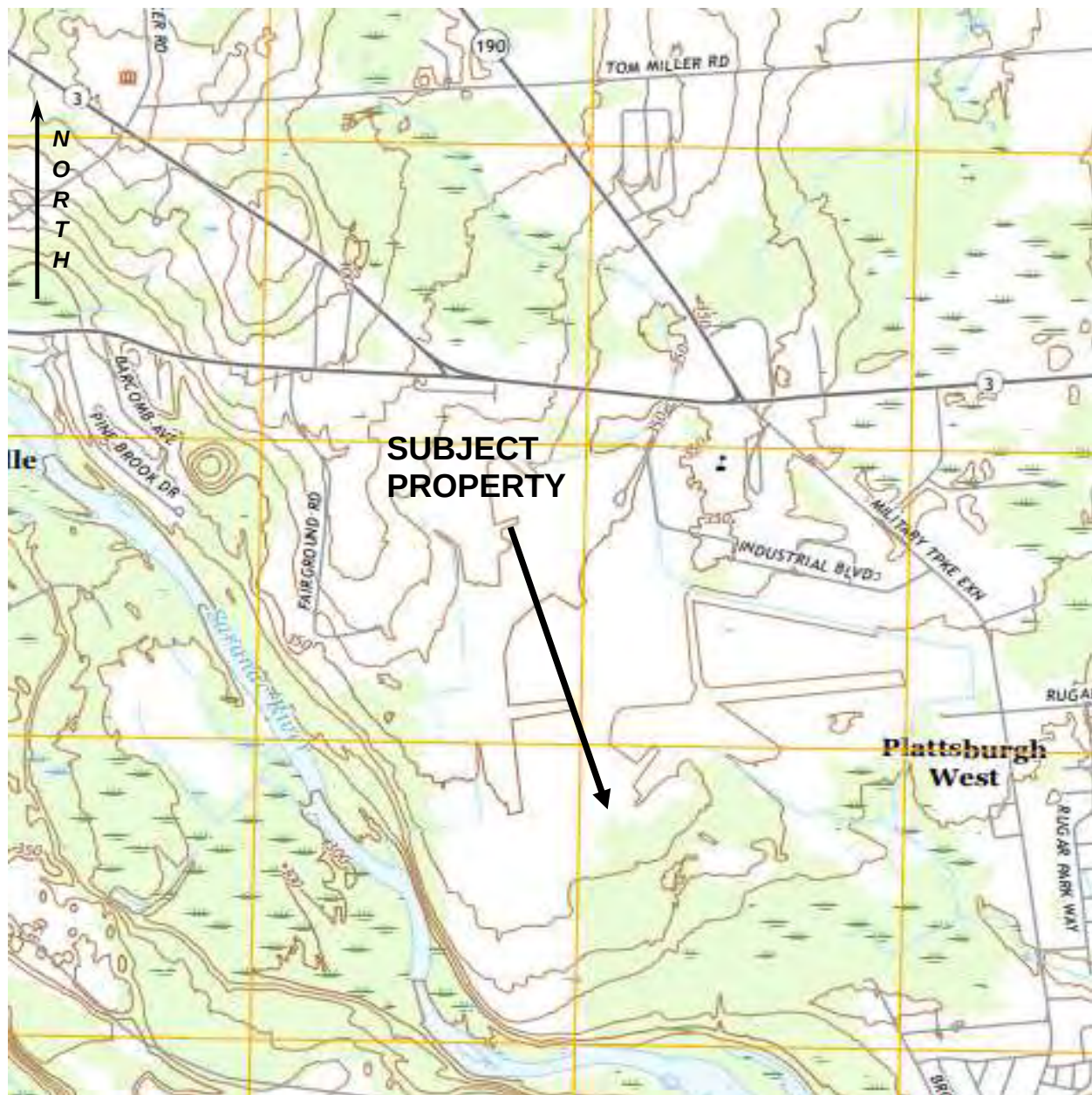
Based on the findings, KAS presents the following recommendations:

- No additional site characterization work associated with soils on Lot A, D and J appears warranted;
- The Soil and Groundwater Management Plan should be modified to address these findings of this report;
- A copy of this report must be provided to the NYSDEC; and,
- If conditions are encountered during planned redevelopment activities on Lot A, D and J that differ from those identified in this report, an environmental professional should be contacted to assess the soils to ensure proper handling.



APPENDIX A

- 1) Site Location Map**
- 2) Soil Boring Location Map**



KAS Job Number 508212230
Source: USGS Store



Industrial Boulevard Plattsburgh, New York

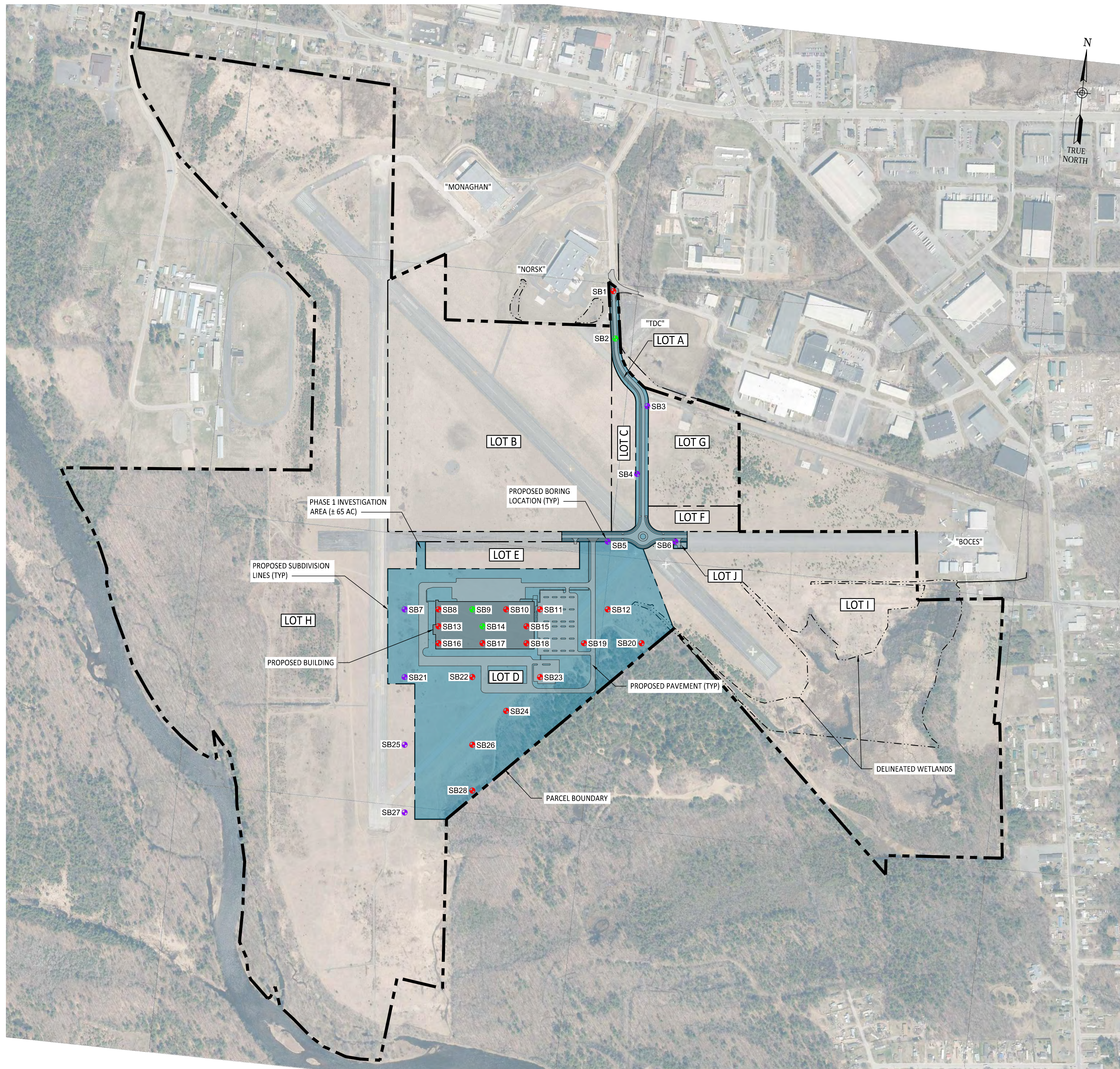
2019 USGS Topographic Map

Date: 05/26/22	Drawing No. 0	Scale: NTS	By: AH
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Plotted: Apr 15, 2022 - 11:05AM
Z:\BL-Vault\02\18217A02-1C71-4823-8927-9905C4054147\0\25588000-25588999\25588551\Boring Location Plan (ID 25588551).dwg
Checked by: Drawn by: Designed by: BDD In charge of: DJF

LEGEND

- PARCEL BOUNDARY
- PROPOSED SUBDIVISION LINES
- SOIL BORING LOCATION
(PFAS SAMPLING AT SOIL/GROUNDWATER
INTERFACE ONLY)
- SOIL BORING LOCATION
(PFAS, TCL, TAL, CYANIDE SAMPLING AT
SOIL/GROUNDWATER INTERFACE ONLY)
- SOIL BORING LOCATION
(PFAS, TCL, TAL, CYANIDE SAMPLING
SURFACE SOIL AND SOIL/GROUNDWATER
INTERFACE)
- PHASE 1 INVESTIGATION AREA (± 65 AC)



PROPOSED BORING LOCATION PLAN

SCALE: 1" = 400'



IT IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW, ARTICLE 145 §7209
SPECIAL PROVISIONS, FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE
DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, ARCHITECT, LANDSCAPE
ARCHITECT, OR LAND SURVEYOR, TO ALTER
AN ITEM IN ANY WAY. IF AN ITEM BEARING
THE STAMP OF A LICENSED PROFESSIONAL
IS ALTERED, THE ALTERING PROFESSIONAL
SHALL STAMP THE DOCUMENT AND
INCLUDE THE NOTATION "ALTERED BY"
FOLLOWED BY THEIR SIGNATURE, THE DATE
OF SUCH ALTERATION, AND A SPECIFIC
DESCRIPTION OF THE ALTERATION.

REVISIONS

CLINTON COUNTY
FORMER CLINTON COUNTY AIRPORT REDEVELOPMENT PROJECT
BORING LOCATION PLAN
CLINTON COUNTY, NEW YORK
TOWN OF PLATTSBURGH

B&L
10 Airline Drive
Suite 200
Albany, NY
12205
Barton & Loguidice, D.P.C.

REVIEW ONLY
NOT FOR
CONSTRUCTION

Date
APRIL 2022
Scale
AS SHOWN
Sheet Number
BLP
Project Number
244.128.001



APPENDIX B

DATA SUMMARY TABLES



Sampling Data Summary
Ambient Air - Former Clinton County Airport
Lot A, D and J, Plattsburgh, NY

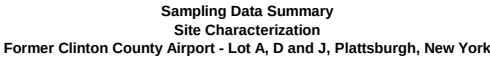
Boring Location	Date	Time (mins)	Particulates		VOCs
			Max (mg/m ³)	Avg. (mg/m ³)	PID Ambient (ppmv)
SB-1	4/28/22	30	0.055	0.011	0.0
SB-2	4/28/22	35	0.052	0.017	0.0
SB-3	4/28/22	55	0.083	0.020	0.0
SB-4	4/28/22	40	0.033	0.011	0.0
SB-5	4/27/22	55	0.041	0.007	0.0
SB-6	4/27/22	35	0.065	0.012	0.0
SB-7	4/26/22	30	0.028	0.009	0.0
SB-8	4/27/22	15	0.033	0.009	0.0
SB-9	4/27/22	10	0.041	0.007	0.0
SB-10	4/27/22	10	0.090	0.013	0.0
SB-11	4/27/22	10	0.031	0.009	0.0
SB-12	4/26/22	15	0.068	0.040	0.0
SB-13	4/27/22	10	0.034	0.009	0.0
SB-14	4/27/22	25	0.051	0.012	0.0
SB-15	4/27/22	10	0.082	0.006	0.0
SB-16	4/27/22	10	0.034	0.009	0.0
SB-17	4/27/22	5	0.036	0.012	0.0
SB-18	4/27/22	10	0.028	0.002	0.0
SB-19	4/26/22	20	0.011	0.006	0.0
SB-20	4/26/22	10	0.091	0.018	0.0
SB-21	4/26/22	30	0.050	0.014	0.0
SB-22	4/26/22	30	0.048	0.028	0.0
SB-23	4/26/22	30	0.049	0.015	0.0
SB-24	4/26/22	15	0.016	0.007	0.0
SB-25	4/26/22	30	0.041	0.034	0.0
SB-26	4/26/22	30	0.034	0.023	0.0
SB-27	4/26/22	90	0.024	0.011	0.0
SB-28	4/26/22	15	0.016	0.007	0.0

Note: ppmv = parts per million by volume

mg/m³ = milligrams per cubic meter

*Bold indicates an exceedance 0.1 mg/m³

VOCs = volatile organic compounds





APPENDIX C

LABORATORY ANALYTICAL REPORT



ANALYTICAL REPORT

Lab Number:	L2222691
Client:	KAS, Inc. 589 Avenue D, Suite 10 Williston, VT 05495
ATTN:	Anthony Harvey
Phone:	(802) 383-0486
Project Name:	FORMER AIRPORT
Project Number:	508215230
Report Date:	05/20/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2222691-01	SB-1	SOIL	INDUSTRIAL BLVD.	04/28/22 12:00	04/29/22
L2222691-02	SB-2	SOIL	INDUSTRIAL BLVD.	04/28/22 11:25	04/29/22
L2222691-03	SB-3 (0-2')	SOIL	INDUSTRIAL BLVD.	04/28/22 10:20	04/29/22
L2222691-04	SB-3	SOIL	INDUSTRIAL BLVD.	04/28/22 10:20	04/29/22
L2222691-05	SB-4 (0-2')	SOIL	INDUSTRIAL BLVD.	04/28/22 09:35	04/29/22
L2222691-06	SB-4	SOIL	INDUSTRIAL BLVD.	04/28/22 09:35	04/29/22
L2222691-07	SB-5 (0-2')	SOIL	INDUSTRIAL BLVD.	04/27/22 11:55	04/29/22
L2222691-08	SB-5	SOIL	INDUSTRIAL BLVD.	04/27/22 11:55	04/29/22
L2222691-09	SB-6 (0-2')	SOIL	INDUSTRIAL BLVD.	04/27/22 12:45	04/29/22
L2222691-10	SB-6	SOIL	INDUSTRIAL BLVD.	04/27/22 12:45	04/29/22
L2222691-11	SB-7 (0-2')	SOIL	INDUSTRIAL BLVD.	04/26/22 14:35	04/29/22
L2222691-12	SB-7	SOIL	INDUSTRIAL BLVD.	04/26/22 14:35	04/29/22
L2222691-13	SB-8	SOIL	INDUSTRIAL BLVD.	04/27/22 09:40	04/29/22
L2222691-14	SB-9	SOIL	INDUSTRIAL BLVD.	04/27/22 10:55	04/29/22
L2222691-15	SB-10	SOIL	INDUSTRIAL BLVD.	04/27/22 11:05	04/29/22
L2222691-16	SB-11	SOIL	INDUSTRIAL BLVD.	04/27/22 11:35	04/29/22
L2222691-17	SB-12	SOIL	INDUSTRIAL BLVD.	04/26/22 15:35	04/29/22
L2222691-18	SB-13	SOIL	INDUSTRIAL BLVD.	04/27/22 09:50	04/29/22
L2222691-19	SB-14	SOIL	INDUSTRIAL BLVD.	04/27/22 10:15	04/29/22
L2222691-20	SB-15	SOIL	INDUSTRIAL BLVD.	04/27/22 11:15	04/29/22
L2222691-21	SB-16	SOIL	INDUSTRIAL BLVD.	04/27/22 10:00	04/29/22
L2222691-22	SB-17	SOIL	INDUSTRIAL BLVD.	04/27/22 10:05	04/29/22
L2222691-23	SB-18	SOIL	INDUSTRIAL BLVD.	04/27/22 11:25	04/29/22
L2222691-24	SB-19	SOIL	INDUSTRIAL BLVD.	04/26/22 15:05	04/29/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2222691-25	SB-20	SOIL	INDUSTRIAL BLVD.	04/26/22 15:25	04/29/22
L2222691-26	SB-21 (0-2')	SOIL	INDUSTRIAL BLVD.	04/26/22 14:05	04/29/22
L2222691-27	SB-21	SOIL	INDUSTRIAL BLVD.	04/26/22 14:05	04/29/22
L2222691-28	SB-22	SOIL	INDUSTRIAL BLVD.	04/26/22 13:50	04/29/22
L2222691-29	SB-23	SOIL	INDUSTRIAL BLVD.	04/26/22 13:30	04/29/22
L2222691-30	SB-24	SOIL	INDUSTRIAL BLVD.	04/26/22 12:25	04/29/22
L2222691-31	SB-25 (0-2')	SOIL	INDUSTRIAL BLVD.	04/26/22 11:15	04/29/22
L2222691-32	SB-25	SOIL	INDUSTRIAL BLVD.	04/26/22 11:15	04/29/22
L2222691-33	SB-26	SOIL	INDUSTRIAL BLVD.	04/26/22 11:35	04/29/22
L2222691-34	SB-27 (0-2')	SOIL	INDUSTRIAL BLVD.	04/26/22 09:45	04/29/22
L2222691-35	SB-27	SOIL	INDUSTRIAL BLVD.	04/26/22 09:45	04/29/22
L2222691-36	SB-28	SOIL	INDUSTRIAL BLVD.	04/26/22 12:00	04/29/22
L2222691-37	DUPE	SOIL	INDUSTRIAL BLVD.	04/28/22 09:35	04/29/22
L2222691-38	EQUIPMENT BLANK	WATER	INDUSTRIAL BLVD.	04/28/22 12:25	04/29/22

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

Report Submission

May 20, 2022: This final report includes the results of all requested analyses.

May 13, 2022: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2222691-08: The methanol vial was analyzed in order to quantitate the sample within the calibration range.

The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The results of both analyses are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2222691-01, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -34, -35, -36, and -37RE: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2222691-01, -02, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -26, -27, -28, -29, -30, and -37: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

The Extracted Internal Standard recovery was less than 10% for individual analytes; however, the criteria were achieved upon re-extraction at a lower volume. The results of the re-extraction are reported for the associated target compounds for the following samples:

L2222691-01: perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (5%)

L2222691-07: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (8%) and n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (7%)

L2222691-08: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (9%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (6%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (5%)

L2222691-11: n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (2%)

L2222691-12: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (3%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (3%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (4%)

L2222691-13: perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (6%)

L2222691-14: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (8%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (7%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (8%)

L2222691-15: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (3%) and n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (3%)

L2222691-17: perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (9%)

L2222691-18: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (8%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (7%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (7%)

L2222691-21: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (9%) and n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (6%)

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

L2222691-22: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (5%) and n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (4%)

L2222691-23: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (7%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (7%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (9%)

L2222691-26: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (0%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (1%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (5%);

L2222691-27: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (3%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (3%)

L2222691-28: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (8%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (7%), and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (8%)

L2222691-29: n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (9%); L2222691-30: n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (9%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (5%)

L2222691-35: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (2%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (2%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (8%)

L2222691-36: n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (0%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (2%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (2%)

L2222691-37: n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (9%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (9%)

L2222691-11: The Extracted Internal Surrogate Standard recovery is below the acceptance criteria for n-

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (1%), in both the original and re-extraction with lesser volume. The associated target compound is not reported due to the insufficient recovery of this surrogate.

L2222691-11: The Extracted Internal Standard recovery is less than 10% for perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (9%); however, re-extraction on dilution achieved a similar result. The results of the re-extraction are reported for the associated target compounds.

L2222691-13 and -25RE: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2222691-25RE: The Extracted Internal Standard recoveries were less than 10% for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (8%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (9%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (8%); however, re-extraction at a lower volume (less than 1g) could not be performed. The results of the re-extraction are reported.

L2222691-26: The Extracted Internal Standard recovery is less than 10% for n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (1%); however, re-extraction on dilution achieved a similar result. The results of the re-extraction are reported for the associated target compounds.

L2222691-26: The Extracted Internal Surrogate Standard recovery is below the acceptance criteria for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (0%), in both the original and re-extraction with lesser volume. The associated target compounds are not reported due to the insufficient recovery of this surrogate.

L2222691-31: The Extracted Internal Standard recoveries were less than 10% for 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (8%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (0%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (0%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (3%); however, re-extraction at a lower volume achieved a improved results. The results of the re-extraction are reported for the associated target compounds.

L2222691-32: The Extracted Internal Standard recoveries are less than 10% for 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (6%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

nmefosaa) (1%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (1%), perfluoro[1,2-13c2]dodecanoic acid (mpfdoa) (8%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (1%); however, the extraction efficiency was improved upon re-extraction at a lower volume. The results of the re-extraction are reported for the associated target compounds.

L2222691-34: The Extracted Internal Standard recoveries are less than 10% for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (0%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (0%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (8%); however, the extraction efficiency was improved upon re-extraction with lower volume. The results of the re-extraction are reported for the associated target compounds

WG1636273-1, WG1634686-3, WG1636027-3, and WG1636027-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The Extracted Internal Standard recovery for the WG1636568-1 Method Blank, associated with L2222691-21RE, -21, -22, -22RE, -23RE, -23, -25RE, -26RE, -27, -27RE, -28, -28RE, -29, -29RE, -30, and -30RE, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, the method blank is non-detect for all associated target analytes; therefore, no further action was taken.

WG1636568-2: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria; therefore, no further action was taken.

SPLP Perfluorinated Alkyl Acids by Isotope Dilution

The WG1636562-4 Laboratory Duplicate RPD for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (49%), performed on L2222691-30, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

WG1636562-5: This blank represents the SPLP tumbling blank associated with L2222691-13 and -30.

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

Total Metals

The WG1637749-3 MS recovery, performed on L2222691-02, is outside the acceptance criteria for aluminum (11%). A post digestion spike was performed and yielded an unacceptable recovery of 473%. The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1637749-3 MS recoveries for calcium (0%), iron (0%), magnesium (0%), and manganese (45%), performed on L2222691-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1637749-4 Laboratory Duplicate RPDs for arsenic (61%), calcium (36%), lead (26%), magnesium (40%), and manganese (37%), performed on L2222691-02, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1636033-2/-3 LCS/LCSD recoveries for cyanide, total (58%/74%), associated with L2222691-26, -32, -34, and -35, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1636043-2/-3 LCS/LCSD recoveries for cyanide, total (58%/74%), associated with L2222691-11, -12, and -27, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1636118-2 LCS recovery for cyanide, total (76%), associated with L2222691-09 and -10, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1636556-2/-3 LCS/LCSD recoveries for cyanide, total (74%/77%), associated with L2222691-07, -08, -14, -19, and -31, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1637117-2 LCS recovery for cyanide, total (62%), associated with L2222691-02 through -06 and -37, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Case Narrative (continued)

original analyses are reported.

WG1636043: A Matrix Spike and Laboratory Duplicate were prepared with the sample batch, however, the native sample was not available for reporting; therefore, the results could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 05/20/22

ORGANICS

VOLATILES

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 18:40
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-02
 Client ID: SB-2
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	8.4	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-02

Date Collected: 04/28/22 11:25

Client ID: SB-2

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	92		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 18:59
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-03
 Client ID: SB-3 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	14		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.9	0.92	1
Cyclohexane	ND		ug/kg	9.7	0.53	1
1,4-Dioxane	ND		ug/kg	78	34.	1
Freon-113	ND		ug/kg	3.9	0.68	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	92		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-04
 Client ID: SB-3
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/05/22 19:19
 Analyst: NLK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.95	0.52	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
 Client ID: SB-3
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Styrene	ND		ug/kg	0.95	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	8.5	J	ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.27	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.95	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.90	1
Cyclohexane	ND		ug/kg	9.5	0.52	1
1,4-Dioxane	ND		ug/kg	76	33.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.57	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-04

Date Collected: 04/28/22 10:20

Client ID: SB-3

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 19:39
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.55	0.15	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-05
 Client ID: SB-4 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	19		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	87	38.	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	ND		ug/kg	4.4	0.66	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-05

Date Collected: 04/28/22 09:35

Client ID: SB-4 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-06
Client ID: SB-4
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/22 18:56
Analyst: AJK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.15	1
Benzene	ND		ug/kg	0.47	0.15	1
Toluene	ND		ug/kg	0.93	0.51	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.47	0.13	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-06
 Client ID: SB-4
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
Xylenes, Total	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	0.13	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	9.0	J	ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	0.94	J	ug/kg	3.7	0.61	1
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.89	1
Cyclohexane	ND		ug/kg	9.3	0.51	1
1,4-Dioxane	ND		ug/kg	75	33.	1
Freon-113	ND		ug/kg	3.7	0.65	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-06

Date Collected: 04/28/22 09:35

Client ID: SB-4

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:18
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-07**Date Collected:** 04/27/22 11:55**Client ID:** SB-5 (0-2')**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	11		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-07

Date Collected: 04/27/22 11:55

Client ID: SB-5 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	92		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:38
Analyst: NLK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
 Client ID: SB-5
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	490	E	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	86	38.	1
Freon-113	ND		ug/kg	4.3	0.74	1
Methyl cyclohexane	ND		ug/kg	4.3	0.65	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-08

Date Collected: 04/27/22 11:55

Client ID: SB-5

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/22 01:08
Analyst: AJK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	66	9.6	1
Chloroform	ND		ug/kg	99	9.3	1
Carbon tetrachloride	ND		ug/kg	66	15.	1
1,2-Dichloropropane	ND		ug/kg	66	8.3	1
Dibromochloromethane	ND		ug/kg	66	9.3	1
1,1,2-Trichloroethane	ND		ug/kg	66	18.	1
Tetrachloroethene	ND		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.4	1
Trichlorofluoromethane	ND		ug/kg	260	46.	1
1,2-Dichloroethane	ND		ug/kg	66	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.2	1
trans-1,3-Dichloropropene	ND		ug/kg	66	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	66	36.	1
Ethylbenzene	ND		ug/kg	66	9.3	1
Chloromethane	ND		ug/kg	260	62.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	ND		ug/kg	66	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	66	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	99	9.1	1
Trichloroethene	ND		ug/kg	33	9.1	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
 Client ID: SB-5
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	130	9.5	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.8	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	66	19.	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	66	12.	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Styrene	ND		ug/kg	66	13.	1
Dichlorodifluoromethane	ND		ug/kg	660	61.	1
Acetone	470	J	ug/kg	660	320	1
Carbon disulfide	ND		ug/kg	660	300	1
2-Butanone	ND		ug/kg	660	150	1
4-Methyl-2-pentanone	ND		ug/kg	660	85.	1
2-Hexanone	ND		ug/kg	660	78.	1
Bromochloromethane	ND		ug/kg	130	14.	1
1,2-Dibromoethane	ND		ug/kg	66	18.	1
n-Butylbenzene	ND		ug/kg	66	11.	1
sec-Butylbenzene	ND		ug/kg	66	9.7	1
tert-Butylbenzene	ND		ug/kg	130	7.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	66.	1
Isopropylbenzene	ND		ug/kg	66	7.2	1
p-Isopropyltoluene	ND		ug/kg	66	7.2	1
Naphthalene	ND		ug/kg	260	43.	1
n-Propylbenzene	ND		ug/kg	66	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
Methyl Acetate	ND		ug/kg	260	63.	1
Cyclohexane	ND		ug/kg	660	36.	1
1,4-Dioxane	ND		ug/kg	5300	2300	1
Freon-113	ND		ug/kg	260	46.	1
Methyl cyclohexane	ND		ug/kg	260	40.	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-08

Date Collected: 04/27/22 11:55

Client ID: SB-5

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	89		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 20:57
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-09
 Client ID: SB-6 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	ND		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.4	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.12	1
Naphthalene	ND		ug/kg	4.2	0.69	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.58	1
1,4-Dioxane	ND		ug/kg	85	37.	1
Freon-113	ND		ug/kg	4.2	0.73	1
Methyl cyclohexane	ND		ug/kg	4.2	0.64	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-09

Date Collected: 04/27/22 12:45

Client ID: SB-6 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10
 Client ID: SB-6
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/05/22 21:17
 Analyst: NLK
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10

Date Collected: 04/27/22 12:45

Client ID: SB-6

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	87		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	86	38.	1
Freon-113	ND		ug/kg	4.3	0.75	1
Methyl cyclohexane	ND		ug/kg	4.3	0.65	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10

Date Collected: 04/27/22 12:45

Client ID: SB-6

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 21:37
Analyst: NLK
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1
Trichloroethene	ND		ug/kg	0.46	0.12	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-11
 Client ID: SB-7 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.12	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	ND		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.87	1
Cyclohexane	ND		ug/kg	9.2	0.50	1
1,4-Dioxane	ND		ug/kg	73	32.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.55	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-11

Date Collected: 04/26/22 14:35

Client ID: SB-7 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 21:56
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-12

Date Collected: 04/26/22 14:35

Client ID: SB-7

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	83	36.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-12

Date Collected: 04/26/22 14:35

Client ID: SB-7

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-14
 Client ID: SB-9
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/05/22 22:16
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-14**Date Collected:** 04/27/22 10:55**Client ID:** SB-9**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	13		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.1	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.1	0.70	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-14

Date Collected: 04/27/22 10:55

Client ID: SB-9

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 22:35
Analyst: NLK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.95	0.52	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-19
 Client ID: SB-14
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Styrene	ND		ug/kg	0.95	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	11		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.27	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.95	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.5	0.52	1
1,4-Dioxane	ND		ug/kg	76	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-19

Date Collected: 04/27/22 10:15

Client ID: SB-14

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-26
 Client ID: SB-21 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/05/22 22:55
 Analyst: NLK
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.24	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.29	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
 Client ID: SB-21 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	ND		ug/kg	0.88	0.26	1
Xylenes, Total	ND		ug/kg	0.88	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	0.12	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.80	1
Acetone	6.5	J	ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	ND		ug/kg	8.8	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.24	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	ND		ug/kg	0.88	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.88	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
n-Propylbenzene	ND		ug/kg	0.88	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.29	1
Methyl Acetate	ND		ug/kg	3.5	0.84	1
Cyclohexane	ND		ug/kg	8.8	0.48	1
1,4-Dioxane	ND		ug/kg	70	31.	1
Freon-113	ND		ug/kg	3.5	0.61	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-26

Date Collected: 04/26/22 14:05

Client ID: SB-21 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27
 Client ID: SB-21
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/05/22 23:15
 Analyst: NLK
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.90	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.90	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.90	0.11	1
Dibromochloromethane	ND		ug/kg	0.90	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.90	0.24	1
Tetrachloroethene	ND		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.90	0.49	1
Ethylbenzene	ND		ug/kg	0.90	0.13	1
Chloromethane	ND		ug/kg	3.6	0.83	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.90	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.45	0.12	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27

Date Collected: 04/26/22 14:05

Client ID: SB-21

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.90	0.26	1
Xylenes, Total	ND		ug/kg	0.90	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.90	0.12	1
Styrene	ND		ug/kg	0.90	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.82	1
Acetone	22		ug/kg	9.0	4.3	1
Carbon disulfide	ND		ug/kg	9.0	4.1	1
2-Butanone	ND		ug/kg	9.0	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	1.1	1
2-Hexanone	ND		ug/kg	9.0	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.90	0.25	1
n-Butylbenzene	ND		ug/kg	0.90	0.15	1
sec-Butylbenzene	ND		ug/kg	0.90	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Isopropylbenzene	ND		ug/kg	0.90	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.90	0.10	1
Naphthalene	ND		ug/kg	3.6	0.58	1
n-Propylbenzene	ND		ug/kg	0.90	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
Methyl Acetate	ND		ug/kg	3.6	0.85	1
Cyclohexane	ND		ug/kg	9.0	0.49	1
1,4-Dioxane	ND		ug/kg	72	31.	1
Freon-113	ND		ug/kg	3.6	0.62	1
Methyl cyclohexane	ND		ug/kg	3.6	0.54	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27

Date Collected: 04/26/22 14:05

Client ID: SB-21

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	92		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/05/22 23:34
Analyst: NLK
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
 Client ID: SB-25 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	7.3	J	ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.17	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-31

Date Collected: 04/26/22 11:15

Client ID: SB-25 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-32
 Client ID: SB-25
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/05/22 23:54
 Analyst: NLK
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-32**Date Collected:** 04/26/22 11:15**Client ID:** SB-25**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-32

Date Collected: 04/26/22 11:15

Client ID: SB-25

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34
Client ID: SB-27 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/22 00:13
Analyst: NLK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34
 Client ID: SB-27 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.90	1
Acetone	23		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	79	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34

Date Collected: 04/26/22 09:45

Client ID: SB-27 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-35
 Client ID: SB-27
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/06/22 00:33
 Analyst: NLK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35
 Client ID: SB-27
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	9.4	J	ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	79	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-35

Date Collected: 04/26/22 09:45

Client ID: SB-27

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/22 00:53
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
 Client ID: DUPE
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	90	39.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-37

Date Collected: 04/28/22 09:35

Client ID: DUPE

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/05/22 18:20
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-05,07-12,14,19,26-27,31-32,34-35,37 Batch: WG1635365-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/05/22 18:20
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-05,07-12,14,19,26-27,31-32,34-35,37 Batch: WG1635365-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/05/22 18:20
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-05,07-12,14,19,26-27,31-32,34-35,37 Batch: WG1635365-5					
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	87		70-130



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/06/22 18:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635990-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/22 18:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635990-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.89	J	ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/06/22 18:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635990-5					
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	85		70-130



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/06/22 18:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1636060-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/06/22 18:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1636060-5					
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	45	J	ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/06/22 18:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1636060-5					
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	85		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07-12,14,19,26-27,31-32,34-35,37 Batch: WG1635365-3 WG1635365-4								
Methylene chloride	83		80		70-130	4		30
1,1-Dichloroethane	91		82		70-130	10		30
Chloroform	88		81		70-130	8		30
Carbon tetrachloride	93		80		70-130	15		30
1,2-Dichloropropane	97		92		70-130	5		30
Dibromochloromethane	93		91		70-130	2		30
1,1,2-Trichloroethane	97		97		70-130	0		30
Tetrachloroethene	99		87		70-130	13		30
Chlorobenzene	93		87		70-130	7		30
Trichlorofluoromethane	90		78		70-139	14		30
1,2-Dichloroethane	92		91		70-130	1		30
1,1,1-Trichloroethane	94		84		70-130	11		30
Bromodichloromethane	88		85		70-130	3		30
trans-1,3-Dichloropropene	100		99		70-130	1		30
cis-1,3-Dichloropropene	98		95		70-130	3		30
Bromoform	82		85		70-130	4		30
1,1,2,2-Tetrachloroethane	101		109		70-130	8		30
Benzene	96		88		70-130	9		30
Toluene	96		86		70-130	11		30
Ethylbenzene	99		89		70-130	11		30
Chloromethane	92		80		52-130	14		30
Bromomethane	100		88		57-147	13		30
Vinyl chloride	92		78		67-130	16		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07-12,14,19,26-27,31-32,34-35,37 Batch: WG1635365-3 WG1635365-4								
Chloroethane	95		83		50-151	13		30
1,1-Dichloroethene	87		76		65-135	13		30
trans-1,2-Dichloroethene	88		79		70-130	11		30
Trichloroethene	98		86		70-130	13		30
1,2-Dichlorobenzene	95		92		70-130	3		30
1,3-Dichlorobenzene	96		91		70-130	5		30
1,4-Dichlorobenzene	95		91		70-130	4		30
Methyl tert butyl ether	97		99		66-130	2		30
p/m-Xylene	96		86		70-130	11		30
o-Xylene	94		86		70-130	9		30
cis-1,2-Dichloroethene	86		80		70-130	7		30
Styrene	91		85		70-130	7		30
Dichlorodifluoromethane	80		69		30-146	15		30
Acetone	85		93		54-140	9		30
Carbon disulfide	87		75		59-130	15		30
2-Butanone	77		83		70-130	8		30
4-Methyl-2-pentanone	88		97		70-130	10		30
2-Hexanone	76		85		70-130	11		30
Bromochloromethane	84		82		70-130	2		30
1,2-Dibromoethane	96		96		70-130	0		30
n-Butylbenzene	113		101		70-130	11		30
sec-Butylbenzene	106		96		70-130	10		30
tert-Butylbenzene	102		92		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07-12,14,19,26-27,31-32,34-35,37 Batch: WG1635365-3 WG1635365-4								
1,2-Dibromo-3-chloropropane	81		89		68-130	9		30
Isopropylbenzene	104		94		70-130	10		30
p-Isopropyltoluene	106		97		70-130	9		30
Naphthalene	91		98		70-130	7		30
n-Propylbenzene	105		96		70-130	9		30
1,2,3-Trichlorobenzene	95		97		70-130	2		30
1,2,4-Trichlorobenzene	101		97		70-130	4		30
1,3,5-Trimethylbenzene	104		96		70-130	8		30
1,2,4-Trimethylbenzene	104		97		70-130	7		30
Methyl Acetate	76		83		51-146	9		30
Cyclohexane	99		86		59-142	14		30
1,4-Dioxane	74		82		65-136	10		30
Freon-113	91		80		50-139	13		30
Methyl cyclohexane	103		90		70-130	13		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	106		108		70-130
Dibromofluoromethane	89		89		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1635990-3 WG1635990-4								
Methylene chloride	83		77		70-130	8		30
1,1-Dichloroethane	89		82		70-130	8		30
Chloroform	86		80		70-130	7		30
Carbon tetrachloride	88		82		70-130	7		30
1,2-Dichloropropane	97		89		70-130	9		30
Dibromochloromethane	96		90		70-130	6		30
1,1,2-Trichloroethane	104		96		70-130	8		30
Tetrachloroethene	96		89		70-130	8		30
Chlorobenzene	94		86		70-130	9		30
Trichlorofluoromethane	85		78		70-139	9		30
1,2-Dichloroethane	95		88		70-130	8		30
1,1,1-Trichloroethane	90		84		70-130	7		30
Bromodichloromethane	88		82		70-130	7		30
trans-1,3-Dichloropropene	105		96		70-130	9		30
cis-1,3-Dichloropropene	100		92		70-130	8		30
Bromoform	88		82		70-130	7		30
1,1,2,2-Tetrachloroethane	112		101		70-130	10		30
Benzene	94		87		70-130	8		30
Toluene	95		88		70-130	8		30
Ethylbenzene	98		90		70-130	9		30
Chloromethane	88		81		52-130	8		30
Bromomethane	97		86		57-147	12		30
Vinyl chloride	86		79		67-130	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1635990-3 WG1635990-4								
Chloroethane	91		85		50-151	7		30
1,1-Dichloroethene	82		77		65-135	6		30
trans-1,2-Dichloroethene	86		79		70-130	8		30
Trichloroethene	94		88		70-130	7		30
1,2-Dichlorobenzene	96		88		70-130	9		30
1,3-Dichlorobenzene	96		88		70-130	9		30
1,4-Dichlorobenzene	95		88		70-130	8		30
Methyl tert butyl ether	102		95		66-130	7		30
p/m-Xylene	94		87		70-130	8		30
o-Xylene	93		86		70-130	8		30
cis-1,2-Dichloroethene	85		79		70-130	7		30
Styrene	92		85		70-130	8		30
Dichlorodifluoromethane	76		70		30-146	8		30
Acetone	107		111		54-140	4		30
Carbon disulfide	83		77		59-130	8		30
2-Butanone	88		87		70-130	1		30
4-Methyl-2-pentanone	98		92		70-130	6		30
2-Hexanone	87		85		70-130	2		30
Bromochloromethane	85		79		70-130	7		30
1,2-Dibromoethane	103		95		70-130	8		30
n-Butylbenzene	112		102		70-130	9		30
sec-Butylbenzene	105		96		70-130	9		30
tert-Butylbenzene	100		92		70-130	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1635990-3 WG1635990-4								
1,2-Dibromo-3-chloropropane	91		84		68-130	8		30
Isopropylbenzene	102		94		70-130	8		30
p-Isopropyltoluene	105		96		70-130	9		30
Naphthalene	101		95		70-130	6		30
n-Propylbenzene	105		95		70-130	10		30
1,2,3-Trichlorobenzene	100		92		70-130	8		30
1,2,4-Trichlorobenzene	103		95		70-130	8		30
1,3,5-Trimethylbenzene	104		95		70-130	9		30
1,2,4-Trimethylbenzene	105		95		70-130	10		30
Methyl Acetate	83		79		51-146	5		30
Cyclohexane	94		87		59-142	8		30
1,4-Dioxane	86		82		65-136	5		30
Freon-113	85		79		50-139	7		30
Methyl cyclohexane	99		91		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		97		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	88		88		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1636060-3 WG1636060-4								
Methylene chloride	83		77		70-130	8		30
1,1-Dichloroethane	89		82		70-130	8		30
Chloroform	86		80		70-130	7		30
Carbon tetrachloride	88		82		70-130	7		30
1,2-Dichloropropane	97		89		70-130	9		30
Dibromochloromethane	96		90		70-130	6		30
1,1,2-Trichloroethane	104		96		70-130	8		30
Tetrachloroethene	96		89		70-130	8		30
Chlorobenzene	94		86		70-130	9		30
Trichlorofluoromethane	85		78		70-139	9		30
1,2-Dichloroethane	95		88		70-130	8		30
1,1,1-Trichloroethane	90		84		70-130	7		30
Bromodichloromethane	88		82		70-130	7		30
trans-1,3-Dichloropropene	105		96		70-130	9		30
cis-1,3-Dichloropropene	100		92		70-130	8		30
Bromoform	88		82		70-130	7		30
1,1,2,2-Tetrachloroethane	112		101		70-130	10		30
Benzene	94		87		70-130	8		30
Toluene	95		88		70-130	8		30
Ethylbenzene	98		90		70-130	9		30
Chloromethane	88		81		52-130	8		30
Bromomethane	97		86		57-147	12		30
Vinyl chloride	86		79		67-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1636060-3 WG1636060-4								
Chloroethane	91		85		50-151	7		30
1,1-Dichloroethene	82		77		65-135	6		30
trans-1,2-Dichloroethene	86		79		70-130	8		30
Trichloroethene	94		88		70-130	7		30
1,2-Dichlorobenzene	96		88		70-130	9		30
1,3-Dichlorobenzene	96		88		70-130	9		30
1,4-Dichlorobenzene	95		88		70-130	8		30
Methyl tert butyl ether	102		95		66-130	7		30
p/m-Xylene	94		87		70-130	8		30
o-Xylene	93		86		70-130	8		30
cis-1,2-Dichloroethene	85		79		70-130	7		30
Styrene	92		85		70-130	8		30
Dichlorodifluoromethane	76		70		30-146	8		30
Acetone	107		111		54-140	4		30
Carbon disulfide	83		77		59-130	8		30
2-Butanone	88		87		70-130	1		30
4-Methyl-2-pentanone	98		92		70-130	6		30
2-Hexanone	87		85		70-130	2		30
Bromochloromethane	85		79		70-130	7		30
1,2-Dibromoethane	103		95		70-130	8		30
n-Butylbenzene	112		102		70-130	9		30
sec-Butylbenzene	105		96		70-130	9		30
tert-Butylbenzene	100		92		70-130	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1636060-3 WG1636060-4								
1,2-Dibromo-3-chloropropane	91		84		68-130	8		30
Isopropylbenzene	102		94		70-130	8		30
p-Isopropyltoluene	105		96		70-130	9		30
Naphthalene	101		95		70-130	6		30
n-Propylbenzene	105		95		70-130	10		30
1,2,3-Trichlorobenzene	100		92		70-130	8		30
1,2,4-Trichlorobenzene	103		95		70-130	8		30
1,3,5-Trimethylbenzene	104		95		70-130	9		30
1,2,4-Trimethylbenzene	105		95		70-130	10		30
Methyl Acetate	83		79		51-146	5		30
Cyclohexane	94		87		59-142	8		30
1,4-Dioxane	86		82		65-136	5		30
Freon-113	85		79		50-139	7		30
Methyl cyclohexane	99		91		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		97		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	88		88		70-130

SEMIVOLATILES

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-01
Client ID: SB-1
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 12:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 20:43
Analyst: MP
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.548	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.548	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.274	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.548	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.274	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.274	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.274	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.548	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.548	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.274	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	0.267	J	ng/g	0.274	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.274	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.548	0.314	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.548	0.221	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.548	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.548	0.168	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.548	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.548	0.077	1
PFOA/PFOS, Total	0.267	J	ng/g	0.274	0.046	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-01

Date Collected: 04/28/22 12:00

Client ID: SB-1

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	50	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	53	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	55	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	56	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	67	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	62	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	31		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	64	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	63	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	59	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	27		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	13	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	53	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	12	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	36	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	5	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-01
Client ID: SB-1
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 12:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 12:14
Analyst: RS
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.548	0.107	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			97		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-01 RE
Client ID: SB-1
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 12:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 19:13
Analyst: SG
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.64	0.672	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.64	0.178	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	48	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	11	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 16:20
Analyst: ALS
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
 Client ID: SB-2
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	60		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 21:17
Analyst: MP
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.524	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.524	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.262	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.524	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.262	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	0.347	F	ng/g	0.262	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.262	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.524	0.188	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.524	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.262	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	0.245	J	ng/g	0.262	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.262	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.524	0.301	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.524	0.211	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.524	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.524	0.160	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.524	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.524	0.073	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.524	0.214	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.524	0.057	1
PFOA/PFOS, Total	0.245	J	ng/g	0.262	0.044	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-02**Date Collected:** 04/28/22 11:25**Client ID:** SB-2**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	51		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	49		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 12:21
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.524	0.103	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	103			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 16:43
Analyst: ALS
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	190		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	60	J	ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
 Client ID: SB-3 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	340		ug/kg	110	20.	1
Benzo(a)pyrene	600		ug/kg	140	44.	1
Benzo(b)fluoranthene	730		ug/kg	110	31.	1
Benzo(k)fluoranthene	260		ug/kg	110	29.	1
Chrysene	440		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	240		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	57	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	79	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	140	25.	1
Pyrene	200		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-03

Date Collected: 04/28/22 10:20

Client ID: SB-3 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	180	J	ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	50		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 21:50
Analyst: MP
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.025	J	ng/g	0.501	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.501	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.251	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.501	0.053	1
Perfluoroheptanoic Acid (PFHpA)	0.086	J	ng/g	0.251	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.251	0.061	1
Perfluorooctanoic Acid (PFOA)	0.151	J	ng/g	0.251	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.501	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.501	0.137	1
Perfluorononanoic Acid (PFNA)	0.247	J	ng/g	0.251	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	1.88		ng/g	0.251	0.130	1
Perfluorodecanoic Acid (PFDA)	1.92		ng/g	0.251	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.501	0.288	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.501	0.202	1
Perfluoroundecanoic Acid (PFUnA)	0.638		ng/g	0.501	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.501	0.153	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.501	0.098	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.501	0.085	1
Perfluorododecanoic Acid (PFDoA)	0.239	J	ng/g	0.501	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.501	0.205	1
Perfluorotetradecanoic Acid (PFTA)	0.064	J	ng/g	0.501	0.054	1
PFOA/PFOS, Total	2.03	J	ng/g	0.251	0.042	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-03**Date Collected:** 04/28/22 10:20**Client ID:** SB-3 (0-2')**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	56		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	104		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
Client ID: SB-3
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 17:07
Analyst: ALS
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-04

Date Collected: 04/28/22 10:20

Client ID: SB-3

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-04

Date Collected: 04/28/22 10:20

Client ID: SB-3

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	78		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
Client ID: SB-3
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 22:06
Analyst: MP
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.495	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.495	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.248	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.495	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.248	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	0.076	J	ng/g	0.248	0.060	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.248	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.495	0.178	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.495	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.248	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.248	0.129	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.248	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.495	0.284	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.495	0.200	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.495	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.495	0.152	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.495	0.084	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.495	0.069	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.495	0.202	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.495	0.054	1
PFOA/PFOS, Total	ND		ng/g	0.248	0.042	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04

Date Collected: 04/28/22 10:20

Client ID: SB-3

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	51	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	54	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	56	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	57	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	71	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	64	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	36		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	65	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	64	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	32		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	16	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	60	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	14	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	48	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	14	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
Client ID: SB-3
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 12:28
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.495	0.097	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			99		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 17:31
Analyst: ALS
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-05
 Client ID: SB-4 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-05

Date Collected: 04/28/22 09:35

Client ID: SB-4 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	67		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 22:23
Analyst: MP
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.041	J	ng/g	0.514	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.514	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.257	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.514	0.054	1
Perfluoroheptanoic Acid (PFHpA)	0.049	J	ng/g	0.257	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.257	0.062	1
Perfluorooctanoic Acid (PFOA)	0.087	J	ng/g	0.257	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.514	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.514	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.257	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.257	0.134	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.257	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.514	0.295	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.514	0.207	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.514	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.514	0.157	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.514	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.514	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.514	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.514	0.056	1
PFOA/PFOS, Total	0.087	J	ng/g	0.257	0.043	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-05**Date Collected:** 04/28/22 09:35**Client ID:** SB-4 (0-2')**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	57	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	59		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	66	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	61	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	70	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	66	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	37		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	67	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	64	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	36		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	25	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	63		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	19	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	51	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	19	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 12:36
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.514	0.101	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			100		10-117	

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-06
 Client ID: SB-4
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/01/22 17:55
 Analyst: ALS
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-06**Date Collected:** 04/28/22 09:35**Client ID:** SB-4**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-06

Date Collected: 04/28/22 09:35

Client ID: SB-4

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	73		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-06
Client ID: SB-4
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 22:40
Analyst: MP
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.512	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.512	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.256	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.512	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.256	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.256	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.256	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.512	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.512	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.256	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.256	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.256	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.512	0.294	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.512	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.512	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.512	0.156	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.512	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.512	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.512	0.209	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.512	0.055	1
PFOA/PFOS, Total	ND		ng/g	0.256	0.043	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-06**Date Collected:** 04/28/22 09:35**Client ID:** SB-4**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	70		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	70		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	72		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	78		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	44		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	75	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	75		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	48		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	25	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	69		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	21	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	63		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	26		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-06
Client ID: SB-4
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 12:43
Analyst: RS
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.512	0.100	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			100		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 18:18
Analyst: ALS
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
 Client ID: SB-5 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 22:56
Analyst: MP
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.491	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.491	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.246	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.491	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.246	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.246	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.246	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.491	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.491	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.246	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	0.246		ng/g	0.246	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.246	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.491	0.282	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.491	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.491	0.150	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.491	0.069	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.491	0.201	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.491	0.053	1
PFOA/PFOS, Total	0.246		ng/g	0.246	0.041	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07

Date Collected: 04/27/22 11:55

Client ID: SB-5 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	52	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	54	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	61	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	55	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	55	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	66	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	58	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	33		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	57	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	56	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	55	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	27		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	50	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	40	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 12:50
Analyst: RS
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.491	0.096	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	102			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07 RE
 Client ID: SB-5 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/09/22 19:29
 Analyst: SG
 Percent Solids: 90%

Extraction Method: ALPHA 23528
 Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.64	0.661	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.64	0.277	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	13		Q	31-134		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	10		Q	34-137		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 18:42
Analyst: ALS
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-08

Date Collected: 04/27/22 11:55

Client ID: SB-5

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	25.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	67		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 23:13
Analyst: MP
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.554	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.554	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.277	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.554	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.277	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.277	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.277	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.554	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.554	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.277	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.277	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.277	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.554	0.318	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.554	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.554	0.169	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.554	0.078	1
PFOA/PFOS, Total	ND		ng/g	0.277	0.046	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08

Date Collected: 04/27/22 11:55

Client ID: SB-5

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	31	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	31	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	33	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	31	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	31	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	34	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	33	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	19	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	33	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	33	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	33	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	18	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	29	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	6	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	23	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	5	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
 Client ID: SB-5
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/17/22 12:57
 Analyst: RS
 Percent Solids: 84%

Extraction Method: ALPHA 23528
 Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.554	0.108	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	51			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08 RE
 Client ID: SB-5
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/09/22 19:46
 Analyst: SG
 Percent Solids: 84%

Extraction Method: ALPHA 23528
 Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.86	0.748	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.86	0.314	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.86	0.759	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.86	0.200	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	25	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	25	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	34		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 19:05
Analyst: ALS
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	65	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
 Client ID: SB-6 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	64	J	ug/kg	100	20.	1
Benzo(a)pyrene	100	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	120		ug/kg	100	30.	1
Benzo(k)fluoranthene	37	J	ug/kg	100	28.	1
Chrysene	65	J	ug/kg	100	18.	1
Acenaphthylene	52	J	ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	82	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	20	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	87	J	ug/kg	140	24.	1
Pyrene	97	J	ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	65		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 23:29
Analyst: MP
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.043	J	ng/g	0.507	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.507	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.254	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.507	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.254	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.254	0.061	1
Perfluorooctanoic Acid (PFOA)	0.077	JF	ng/g	0.254	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.507	0.182	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.507	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.254	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	0.304		ng/g	0.254	0.132	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.254	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.507	0.291	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.507	0.204	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.507	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.507	0.155	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.507	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.507	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.507	0.208	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.507	0.055	1
PFOA/PFOS, Total	0.381	J	ng/g	0.254	0.043	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-09**Date Collected:** 04/27/22 12:45**Client ID:** SB-6 (0-2')**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	56	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	59		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	58	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	58	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	71	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	64	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	42		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	66	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	65	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	66	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	35		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	25	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	60	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	26	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	50	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	19	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:04
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.507	0.100	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			102		10-117	

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10
 Client ID: SB-6
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/01/22 19:29
 Analyst: ALS
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10
 Client ID: SB-6
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-10
Client ID: SB-6
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	77		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-10
Client ID: SB-6
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 23:46
Analyst: MP
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.564	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.564	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.282	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.564	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.282	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.282	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.282	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.564	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.564	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.282	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	0.227	J	ng/g	0.282	0.146	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.282	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.564	0.324	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.564	0.227	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.564	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.564	0.172	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.564	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.564	0.079	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.564	0.230	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.564	0.061	1
PFOA/PFOS, Total	0.227	J	ng/g	0.282	0.047	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10

Date Collected: 04/27/22 12:45

Client ID: SB-6

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	76		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	55		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	58		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	23	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	26	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	30		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-10
Client ID: SB-6
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:12
Analyst: RS
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.564	0.110	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	99			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 19:53
Analyst: ALS
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
 Client ID: SB-7 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-11
 Client ID: SB-7 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	82		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 00:19
Analyst: MP
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.479	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.479	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.240	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.479	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.240	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.240	0.058	1
Perfluorooctanoic Acid (PFOA)	0.095	JF	ng/g	0.240	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.479	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.479	0.131	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.240	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.240	0.125	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.240	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.479	0.275	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.479	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.479	0.147	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.479	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.479	0.067	1
PFOA/PFOS, Total	0.095	J	ng/g	0.240	0.040	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-11**Date Collected:** 04/26/22 14:35**Client ID:** SB-7 (0-2')**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	23	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	24	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	40	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	25	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	26	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	40	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	29	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	14	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	30	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	40	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	29	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	19		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	1	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	25	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	2	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	23	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:19
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.479	0.094	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	103			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11 RE
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 20:02
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.53	0.626	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.53	0.165	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	48	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	20	Q	24-159

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-12
 Client ID: SB-7
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/01/22 20:16
 Analyst: ALS
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-12

Date Collected: 04/26/22 14:35

Client ID: SB-7

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-12**Date Collected:** 04/26/22 14:35**Client ID:** SB-7**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	62		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 00:35
Analyst: MP
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.513	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.513	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.256	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.513	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.256	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.256	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.256	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.513	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.513	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.256	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.256	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.256	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.513	0.294	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.513	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.513	0.157	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.513	0.072	1
PFOA/PFOS, Total	ND		ng/g	0.256	0.043	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12

Date Collected: 04/26/22 14:35

Client ID: SB-7

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	41	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	41	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	42	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	41	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	40	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	41	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	41	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	23		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	41	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	39	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	40	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	20		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	3	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	31	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	3	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	25	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	4	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:33
Analyst: RS
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.513	0.100	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			99		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12 **RE**
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 20:19
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.81	0.731	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.81	0.306	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.81	0.742	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.81	0.196	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	10	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	11	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	29		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-13
Client ID: SB-8
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:40
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 00:52
Analyst: MP
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.479	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.479	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.240	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.479	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.240	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.240	0.058	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.240	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.479	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.479	0.131	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.240	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.240	0.124	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.240	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.479	0.275	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.479	0.193	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.479	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.479	0.147	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.479	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.479	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.240	0.040	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-13

Date Collected: 04/27/22 09:40

Client ID: SB-8

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	56	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	55	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	54	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	55	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	53	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	56	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	56	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	32		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	57	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	52	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	52	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	31		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	22	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	46	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	17	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	35	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	6	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-13
Client ID: SB-8
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:40
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 23:40
Analyst: RS
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.88	0.384	1
Perfluoropentanoic Acid (PFPeA)	0.452	J	ng/l	1.88	0.372	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.88	0.224	1
Perfluorohexanoic Acid (PFHxA)	0.632	J	ng/l	1.88	0.308	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.88	0.212	1
Perfluorohexanesulfonic Acid (PFHxS)	1.39	JF	ng/l	1.88	0.354	1
Perfluorooctanoic Acid (PFOA)	0.911	J	ng/l	1.88	0.222	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.88	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.647	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.294	1
Perfluorooctanesulfonic Acid (PFOS)	36.0		ng/l	1.88	0.474	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.286	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.88	1.14	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.610	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.245	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.922	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.88	0.546	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.756	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.350	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.88	0.308	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.233	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-13

Date Collected: 04/27/22 09:40

Client ID: SB-8

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	82		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	109		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		5-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-13
Client ID: SB-8
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:40
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:41
Analyst: RS
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.479	0.094	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	101			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-13 **RE**
Client ID: SB-8
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:40
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 20:36
Analyst: SG
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.82	0.745	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.82	0.197	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	43		24-159

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-14
 Client ID: SB-9
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/01/22 20:40
 Analyst: ALS
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14

Date Collected: 04/27/22 10:55

Client ID: SB-9

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-14

Date Collected: 04/27/22 10:55

Client ID: SB-9

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	68		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14
Client ID: SB-9
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 01:09
Analyst: MP
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.479	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.479	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.239	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.479	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.239	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.239	0.058	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.239	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.479	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.479	0.131	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.239	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.239	0.124	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.239	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.479	0.275	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.479	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.479	0.146	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.479	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.239	0.040	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14

Date Collected: 04/27/22 10:55

Client ID: SB-9

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	54	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	54	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	55	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	53	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	52	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	56	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	56	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	30		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	55	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	52	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	53	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	29		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	45	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	35	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14
Client ID: SB-9
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:48
Analyst: RS
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.479	0.094	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	99			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14 RE
 Client ID: SB-9
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/09/22 20:52
 Analyst: SG
 Percent Solids: 93%

Extraction Method: ALPHA 23528
 Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.44	0.582	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.44	0.244	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.44	0.590	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.44	0.156	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	11	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	14	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	37		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-15
Client ID: SB-10
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 01:25
Analyst: MP
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.496	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.496	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.248	0.039	1
Perfluorohexanoic Acid (PFHxA)	0.067	J	ng/g	0.496	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.248	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.248	0.060	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.248	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.496	0.178	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.496	0.136	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.248	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.248	0.129	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.248	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.496	0.285	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.496	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.496	0.152	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.496	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.496	0.203	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.496	0.054	1
PFOA/PFOS, Total	ND		ng/g	0.248	0.042	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-15

Date Collected: 04/27/22 11:05

Client ID: SB-10

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	52		Q	61-135		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	52		Q	58-150		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	55		Q	74-139		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	53		Q	66-128		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	52		Q	71-129		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	58		Q	78-139		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	56		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	28			20-154		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	55		Q	72-140		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	56		Q	79-136		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	53		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	29			19-175		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	3		Q	31-134		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	44		Q	61-155		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	3		Q	34-137		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	37		Q	54-150		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	13		Q	24-159		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-15
Client ID: SB-10
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 13:55
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.496	0.097	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	103			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-15 RE
 Client ID: SB-10
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/09/22 21:09
 Analyst: SG
 Percent Solids: 95%

Extraction Method: ALPHA 23528
 Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.77	0.713	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.77	0.299	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	10		Q	31-134		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	14		Q	34-137		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-16
Client ID: SB-11
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 01:42
Analyst: MP
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.467	0.021	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.467	0.043	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.233	0.036	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.467	0.049	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.233	0.042	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.233	0.057	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.233	0.039	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.467	0.168	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.467	0.127	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.233	0.070	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.233	0.121	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.233	0.063	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.467	0.268	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.467	0.188	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.467	0.044	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.467	0.143	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.467	0.079	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.467	0.065	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.467	0.191	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.467	0.050	1
PFOA/PFOS, Total	ND		ng/g	0.233	0.039	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-16

Date Collected: 04/27/22 11:35

Client ID: SB-11

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	67		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	68		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	67		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	66	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	70	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	69	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	41		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	68	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	62	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	42		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	25	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	59	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	19	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	45	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	11	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-16
Client ID: SB-11
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 14:02
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.467	0.092	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			99		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-17
Client ID: SB-12
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 01:58
Analyst: MP
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.510	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.510	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.255	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.510	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.255	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.255	0.062	1
Perfluorooctanoic Acid (PFOA)	0.061	J	ng/g	0.255	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.510	0.183	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.510	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.255	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.255	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.255	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.510	0.293	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.510	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.510	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.510	0.156	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.510	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.510	0.071	1
PFOA/PFOS, Total	0.061	J	ng/g	0.255	0.043	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-17

Date Collected: 04/26/22 15:35

Client ID: SB-12

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	64			61-135		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	64			58-150		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	62		Q	74-139		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	63		Q	66-128		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	63		Q	71-129		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	64		Q	78-139		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	66		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	43			20-154		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	65		Q	72-140		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	61		Q	79-136		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	62		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	37			19-175		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	28		Q	31-134		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	53		Q	61-155		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	20		Q	34-137		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	42		Q	54-150		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9		Q	24-159		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-17
Client ID: SB-12
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 14:09
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.510	0.100	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			100		10-117	

Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-17 RE

Client ID: SB-12

Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:35

Date Received: 04/29/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 134,LCMSMS-ID

Analytical Date: 05/09/22 21:25

Analyst: SG

Percent Solids: 89%

Extraction Method: ALPHA 23528

Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.55	0.633	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.55	0.167	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	41		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-18
Client ID: SB-13
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:50
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 02:15
Analyst: MP
Percent Solids: 96%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.478	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.478	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.239	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.478	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.239	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.239	0.058	1
Perfluorooctanoic Acid (PFOA)	0.051	J	ng/g	0.239	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.478	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.478	0.130	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.239	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.239	0.124	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.239	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.478	0.274	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.478	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.478	0.146	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.478	0.067	1
PFOA/PFOS, Total	0.051	J	ng/g	0.239	0.040	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-18

Date Collected: 04/27/22 09:50

Client ID: SB-13

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	57	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	57	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	54	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	56	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	55	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	56	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	57	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	33		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	56	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	52	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	54	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	30		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	45	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	38	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	7	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-18
 Client ID: SB-13
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/17/22 14:17
 Analyst: RS
 Percent Solids: 96%

Extraction Method: ALPHA 23528
 Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.478	0.094	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	98			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-18 **RE**
Client ID: SB-13
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 09:50
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 21:42
Analyst: SG
Percent Solids: 96%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.45	0.586	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.45	0.246	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.45	0.595	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.45	0.157	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	14	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	15	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	31		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 21:04
Analyst: ALS
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-19**Date Collected:** 04/27/22 10:15**Client ID:** SB-14**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	22.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	71		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 02:31
Analyst: MP
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.508	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.508	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.254	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.508	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.254	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.254	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.254	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.508	0.182	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.508	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.254	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.254	0.132	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.254	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.508	0.292	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.508	0.205	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.508	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.508	0.156	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.508	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.508	0.071	1
Perfluorotridecanoic Acid (PFTriDA)	ND		ng/g	0.508	0.208	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.508	0.055	1
PFOA/PFOS, Total	ND		ng/g	0.254	0.043	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-19**Date Collected:** 04/27/22 10:15**Client ID:** SB-14**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	70		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	65	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	71	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	39		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	70	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	64	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	40		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	17	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	57	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	12	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	50	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	13	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 14:24
Analyst: RS
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.508	0.100	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			97		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-20
Client ID: SB-15
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/22 02:48
Analyst: MP
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.516	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.516	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.258	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.516	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.258	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.258	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.258	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.516	0.185	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.516	0.141	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.258	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.258	0.134	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.258	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.516	0.296	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.516	0.208	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.516	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.516	0.158	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.516	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.516	0.072	1
Perfluorotridecanoic Acid (PFTriDA)	ND		ng/g	0.516	0.211	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.516	0.056	1
PFOA/PFOS, Total	ND		ng/g	0.258	0.043	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-20

Date Collected: 04/27/22 11:15

Client ID: SB-15

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	64		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	63		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	62	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	62	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	62	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	66	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	65	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	36		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	63	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	60	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	60	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	36		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	21	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	53	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	21	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	43	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-20
Client ID: SB-15
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 14:31
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.516	0.101	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	102			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-21
Client ID: SB-16
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 22:15
Analyst: SG
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.034	J	ng/g	0.485	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.485	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.242	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.485	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.242	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.242	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.242	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.485	0.174	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.485	0.132	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.242	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.242	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.242	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.485	0.278	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.485	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.485	0.148	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.485	0.068	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.485	0.198	1
Perfluorotetradecanoic Acid (PFTA)	0.080	JF	ng/g	0.485	0.052	1
PFOA/PFOS, Total	ND		ng/g	0.242	0.041	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-21

Date Collected: 04/27/22 10:00

Client ID: SB-16

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	62		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	67		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	62	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	64	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	68	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	66	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	45		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	65	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	65	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	60	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	56		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	57	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	6	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	48	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-21
Client ID: SB-16
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:07
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.485	0.095	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	106			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-21 **RE**
Client ID: SB-16
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 17:52
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.64	0.662	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.64	0.277	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)			21	Q	31-134	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)			26	Q	34-137	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-22
Client ID: SB-17
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 22:48
Analyst: SG
Percent Solids: 96%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.485	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.485	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.242	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.485	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.242	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.242	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.242	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.485	0.174	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.485	0.132	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.242	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.242	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.242	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.485	0.278	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.485	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.485	0.148	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.485	0.068	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.485	0.198	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.485	0.052	1
PFOA/PFOS, Total	ND		ng/g	0.242	0.041	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-22

Date Collected: 04/27/22 10:05

Client ID: SB-17

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	57	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	60		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	59	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	57	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	59	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	60	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	58	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	36		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	60	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	54	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	57	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	37		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	5	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	53	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	4	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	47	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	16	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-22
Client ID: SB-17
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:15
Analyst: RS
Percent Solids: 96%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.485	0.095	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	107			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-22 RE
 Client ID: SB-17
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 18:08
 Analyst: RS
 Percent Solids: 96%

Extraction Method: ALPHA 23528
 Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.58	0.638	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.58	0.268	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	26		Q	31-134		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	33		Q	34-137		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-23
Client ID: SB-18
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 23:21
Analyst: SG
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.537	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.537	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.268	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.537	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.268	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.268	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.268	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.537	0.193	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.537	0.147	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.268	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.268	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.268	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.537	0.308	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.537	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.537	0.164	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.537	0.075	1
PFOA/PFOS, Total	ND		ng/g	0.268	0.045	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-23**Date Collected:** 04/27/22 11:25**Client ID:** SB-18**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	56	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	60		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	64	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	57	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	56	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	63	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	59	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	41		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	58	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	57	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	53	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	34		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	7	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	52	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	44	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-23
Client ID: SB-18
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:22
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.537	0.105	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			107		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-23 **RE**
Client ID: SB-18
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 18:25
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.18	0.878	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.18	0.368	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	2.18	0.891	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.18	0.235	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37		31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	42		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-24
Client ID: SB-19
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 23:38
Analyst: SG
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.568	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.568	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.284	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.568	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.284	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.284	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.284	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.568	0.204	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.568	0.155	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.284	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.284	0.148	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.284	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.568	0.326	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.568	0.229	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.568	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.568	0.174	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.568	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.568	0.080	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	0.568	0.232	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.568	0.061	1
PFOA/PFOS, Total	ND		ng/g	0.284	0.048	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-24

Date Collected: 04/26/22 15:05

Client ID: SB-19

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	80		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	72		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	30	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	81		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	25	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	65		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	12	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-24
Client ID: SB-19
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/19/22 15:03
Analyst: RS
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.568	0.111	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			86		10-117	

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-25 RE

Date Collected: 04/26/22 15:25

Client ID: SB-20

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 05/10/22 11:10

Analytical Date: 05/11/22 18:42

Analyst: RS

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	1.87	0.085	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	1.87	0.172	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.936	0.146	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	1.87	0.197	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.936	0.169	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.936	0.227	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.936	0.157	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	1.87	0.672	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.87	0.511	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.936	0.281	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.936	0.487	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.936	0.251	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.87	1.08	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.87	0.755	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.87	0.175	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.87	0.573	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.87	0.367	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.87	0.316	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.87	0.262	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.87	0.766	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.87	0.202	1
PFOA/PFOS, Total	ND		ng/g	0.936	0.157	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-25 RE

Date Collected: 04/26/22 15:25

Client ID: SB-20

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	22	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	22	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	27	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	22	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	21	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	26	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	20	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	15	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	21	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	24	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	18	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	19		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	19	Q	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	15	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 21:28
Analyst: ALS
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
 Client ID: SB-21 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	78		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 00:11
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.081	J	ng/g	0.500	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.179	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070	1
PFOA/PFOS, Total	ND		ng/g	0.250	0.042	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
 Client ID: SB-21 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	21	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	24	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	35	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	23	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	26	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	38	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	27	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	17	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	30	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	36	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	29	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	15	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	0	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	24	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	1	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	22	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	5	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/20/22 12:09
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.92	0.376	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26 RE
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 18:58
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.92	0.324	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	1.92	0.784	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.92	0.207	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	3	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	64		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	45		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 21:51
Analyst: ALS
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-27**Date Collected:** 04/26/22 14:05**Client ID:** SB-21**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	38	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27

Date Collected: 04/26/22 14:05

Client ID: SB-21

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 00:28
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.464	0.021	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.464	0.043	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.232	0.036	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.464	0.049	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.232	0.042	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.232	0.056	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.232	0.039	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.464	0.167	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.464	0.127	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.232	0.070	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.232	0.121	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.232	0.062	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.464	0.266	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.464	0.043	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.464	0.142	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.464	0.065	1
PFOA/PFOS, Total	ND		ng/g	0.232	0.039	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27

Date Collected: 04/26/22 14:05

Client ID: SB-21

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	50	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	53	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	56	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	50	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	50	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	58	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	53	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	36		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	57	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	56	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	48	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	44		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	3	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	46	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	3	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	38	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:31
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.464	0.091	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	100			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27 **RE**
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 19:31
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.62	0.652	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.62	0.273	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.62	0.662	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.62	0.175	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	18	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	22	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-28
Client ID: SB-22
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:50
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 00:44
Analyst: SG
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.509	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.509	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.254	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.509	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.254	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.254	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.254	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.509	0.183	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.509	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.254	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.254	0.132	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.254	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.509	0.292	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.509	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.509	0.156	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.509	0.071	1
PFOA/PFOS, Total	ND		ng/g	0.254	0.043	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-28

Date Collected: 04/26/22 13:50

Client ID: SB-22

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	61		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	65		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	66	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	62	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	63	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	65	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	64	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	44		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	63	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	60	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	57	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	34		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	58	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	43	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-28
Client ID: SB-22
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:50
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:38
Analyst: RS
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.509	0.100	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	109			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-28 RE
 Client ID: SB-22
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 19:48
 Analyst: RS
 Percent Solids: 91%

Extraction Method: ALPHA 23528
 Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.73	0.697	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.73	0.292	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.73	0.708	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.73	0.187	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	23	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	26	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-29
Client ID: SB-23
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:30
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 01:01
Analyst: SG
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.529	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.529	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.264	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.529	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.264	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.264	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.264	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.529	0.190	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.529	0.144	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.264	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.264	0.137	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.264	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.529	0.304	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.529	0.213	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.529	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.529	0.162	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.529	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.529	0.216	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.529	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.264	0.044	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-29**Date Collected:** 04/26/22 13:30**Client ID:** SB-23**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	61		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	63		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	59	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	58	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	58	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	60	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	58	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	40		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	58	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	57	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	56	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	40		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	14	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	52	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	42	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-29
Client ID: SB-23
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:30
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:45
Analyst: RS
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.529	0.104	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	110			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-29 RE
 Client ID: SB-23
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:30
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 20:04
 Analyst: RS
 Percent Solids: 85%

Extraction Method: ALPHA 23528
 Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.80	0.304	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	38			34-137		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-30
Client ID: SB-24
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 01:17
Analyst: SG
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.502	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.502	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.251	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.502	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.251	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.251	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.251	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.502	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.502	0.137	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.251	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.251	0.130	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.251	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.502	0.288	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.502	0.202	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.502	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.502	0.153	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.502	0.070	1
PFOA/PFOS, Total	ND		ng/g	0.251	0.042	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-30

Date Collected: 04/26/22 12:25

Client ID: SB-24

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	60		Q	61-135		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	63			58-150		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	58		Q	74-139		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	58		Q	66-128		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	59		Q	71-129		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	58		Q	78-139		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	61		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	40			20-154		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	61		Q	72-140		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	52		Q	79-136		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	57		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	34			19-175		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	13		Q	31-134		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	51		Q	61-155		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9		Q	34-137		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	38		Q	54-150		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	5		Q	24-159		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-30
Client ID: SB-24
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/12/22 00:13
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.97	0.402	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.97	0.390	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.97	0.234	1
Perfluorohexanoic Acid (PFHxA)	0.410	J	ng/l	1.97	0.323	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.97	0.222	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.97	0.370	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.97	0.232	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.97	1.31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.97	0.678	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.97	0.307	1
Perfluorooctanesulfonic Acid (PFOS)	1.84	J	ng/l	1.97	0.496	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.97	0.299	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	3.02		ng/l	1.97	1.19	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.97	0.638	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.97	0.256	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.97	0.965	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.97	0.571	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.97	0.792	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.97	0.366	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.97	0.322	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.97	0.244	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-30

Date Collected: 04/26/22 12:25

Client ID: SB-24

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	127		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	114		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	91		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	111		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		5-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	96		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-30
Client ID: SB-24
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 15:53
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.502	0.098	1
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			106		10-117	

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-30 **RE**
Client ID: SB-24
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 20:21
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.84	0.740	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	1.84	0.751	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.84	0.198	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		31-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 22:15
Analyst: ALS
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-31**Date Collected:** 04/26/22 11:15**Client ID:** SB-25 (0-2')**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	66		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 06:53
Analyst: HT
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.489	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.489	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.244	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.489	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.244	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.244	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.244	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.489	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.489	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.244	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.244	0.127	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.244	0.066	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.489	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.489	0.150	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.489	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.489	0.069	1
PFOA/PFOS, Total	ND		ng/g	0.244	0.041	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-31

Date Collected: 04/26/22 11:15

Client ID: SB-25 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	19	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	20	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	28	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	20	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	20	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	27	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	21	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	11	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	19	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	24	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	17	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	8	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	0	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	19	Q	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	0	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	14	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	3	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31 RE
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 22:33
Analyst: SG
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.85	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.85	0.747	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.85	0.313	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	1.85	0.758	1
Perfluorotetradecanoic Acid (PFTTA)	ND		ng/g	1.85	0.200	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	22		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	3	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	3	Q	34-137
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	19	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32
Client ID: SB-25
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 22:39
Analyst: ALS
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32
 Client ID: SB-25
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	26.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-32

Date Collected: 04/26/22 11:15

Client ID: SB-25

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	64		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32
Client ID: SB-25
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 07:10
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.579	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.579	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.290	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.579	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.290	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.290	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.290	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.579	0.208	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.579	0.158	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.290	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.290	0.150	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.290	0.078	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.579	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.579	0.177	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.579	0.113	1
PFOA/PFOS, Total	ND		ng/g	0.290	0.049	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32

Date Collected: 04/26/22 11:15

Client ID: SB-25

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	17	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	18	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	19	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	17	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	17	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	18	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	17	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	10	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	15	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	16	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	13	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	6	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	1	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	12	Q	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	1	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	8	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	1	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32 **RE**
Client ID: SB-25
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 22:49
Analyst: SG
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	2.23	1.28	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.23	0.900	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.23	0.377	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	2.23	0.312	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	2.23	0.913	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.23	0.241	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	28		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	3	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	4	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	48	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	20	Q	24-159



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-33
 Client ID: SB-26
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/10/22 07:26
 Analyst: HT
 Percent Solids: 95%

Extraction Method: ALPHA 23528
 Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.502	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.502	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.251	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.502	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.251	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.251	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.251	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.502	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.502	0.137	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.251	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.251	0.130	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.251	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.502	0.288	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.502	0.202	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.502	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.502	0.153	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.502	0.098	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.502	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.502	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.502	0.205	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.502	0.054	1
PFOA/PFOS, Total	ND		ng/g	0.251	0.042	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-33**Date Collected:** 04/26/22 11:35**Client ID:** SB-26**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	83		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	80		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	76	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	62		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	25	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	71		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	19	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	27		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34
Client ID: SB-27 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/01/22 23:03
Analyst: ALS
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34

Date Collected: 04/26/22 09:45

Client ID: SB-27 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34
 Client ID: SB-27 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	82		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34
Client ID: SB-27 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 07:43
Analyst: HT
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.051	J	ng/g	0.492	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.492	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.246	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.492	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.246	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.246	0.060	1
Perfluorooctanoic Acid (PFOA)	0.044	JF	ng/g	0.246	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.492	0.177	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.492	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.246	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.246	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.246	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.492	0.283	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.492	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.492	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.492	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.492	0.069	1
PFOA/PFOS, Total	0.044	J	ng/g	0.246	0.041	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34

Date Collected: 04/26/22 09:45

Client ID: SB-27 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	33	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	35	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	41	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	34	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	34	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	41	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	34	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	19	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	34	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	37	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	31	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	20		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	0	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	32	Q	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	58		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	0	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	26	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34 RE
 Client ID: SB-27 (0-2')
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 23:06
 Analyst: SG
 Percent Solids: 93%

Extraction Method: ALPHA 23528
 Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.86	0.751	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.86	0.315	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.86	0.762	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.86	0.201	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	4	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	3	Q	34-137
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	28		24-159

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-35
 Client ID: SB-27
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/01/22 23:27
 Analyst: ALS
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35
 Client ID: SB-27
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-35

Date Collected: 04/26/22 09:45

Client ID: SB-27

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	75		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35
Client ID: SB-27
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 07:59
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.546	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.546	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.273	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.546	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.273	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.273	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.273	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.546	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.546	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.273	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.273	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.273	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.546	0.313	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.546	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.546	0.167	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.546	0.107	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.546	0.076	1
PFOA/PFOS, Total	ND		ng/g	0.273	0.046	1

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35

Date Collected: 04/26/22 09:45

Client ID: SB-27

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	48	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	50	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	54	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	48	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	49	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	55	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	49	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	35		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	48	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	52	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	49	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	34		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	2	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	46	Q	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	2	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	37	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35 RE
 Client ID: SB-27
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 23:22
 Analyst: SG
 Percent Solids: 85%

Extraction Method: ALPHA 23528
 Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.14	0.864	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.14	0.362	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	2.14	0.877	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.14	0.232	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	22	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	18	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-36
Client ID: SB-28
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 08:16
Analyst: HT
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.541	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.541	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.541	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.541	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.541	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.541	0.311	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.541	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.541	0.166	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.541	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.541	0.076	1
PFOA/PFOS, Total	ND		ng/g	0.270	0.045	1

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-36

Date Collected: 04/26/22 12:00

Client ID: SB-28

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	31		Q	61-135		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	33		Q	58-150		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	34		Q	74-139		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	30		Q	66-128		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	31		Q	71-129		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	35		Q	78-139		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	30		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	21			20-154		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	29		Q	72-140		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	27		Q	79-136		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	25		Q	75-130		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	17		Q	19-175		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	0		Q	31-134		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	24		Q	61-155		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45			10-117		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	2		Q	34-137		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	16		Q	54-150		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	2		Q	24-159		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-36 RE
 Client ID: SB-28
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 23:39
 Analyst: SG
 Percent Solids: 88%

Extraction Method: ALPHA 23528
 Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.03	0.818	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.03	0.343	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	2.03	0.830	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.03	0.219	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	12	Q	31-134
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	15	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	35		24-159

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-37
 Client ID: DUPE
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/01/22 23:50
 Analyst: ALS
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-37

Date Collected: 04/28/22 09:35

Client ID: DUPE

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	64		18-120

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 08:32
Analyst: HT
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.031	J	ng/g	0.550	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.550	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.275	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.550	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.275	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.275	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.275	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.550	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.550	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.275	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.275	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.275	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.550	0.316	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.550	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.550	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.550	0.168	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.550	0.077	1
PFOA/PFOS, Total	ND		ng/g	0.275	0.046	1



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37

Date Collected: 04/28/22 09:35

Client ID: DUPE

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	58	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	61		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	57	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	58	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	58	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	58	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	58	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	39		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	56	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	51	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	54	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	35		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	12	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	50	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	39	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9	Q	24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 14:38
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.550	0.108	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	86			10-117		

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37 RE
 Client ID: DUPE
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 23:55
 Analyst: SG
 Percent Solids: 86%

Extraction Method: ALPHA 23528
 Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.11	0.357	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/g	2.11	0.865	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.11	0.228	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	29	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	26		24-159

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-38
 Client ID: EQUIPMENT BLANK
 Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 12:25
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/06/22 23:27
 Analyst: RS

Extraction Method: ALPHA 23528
 Extraction Date: 05/06/22 03:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.88	0.383	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.88	0.372	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.88	0.224	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.88	0.308	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.88	0.212	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.88	0.353	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.88	0.222	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.88	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.646	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.293	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.88	0.474	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.286	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.88	1.14	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.609	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.244	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.921	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.88	0.545	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.755	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.350	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.88	0.307	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.233	1
PFOA/PFOS, Total	ND		ng/l	1.88	0.222	1



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-38**Date Collected:** 04/28/22 12:25**Client ID:** EQUIPMENT BLANK**Date Received:** 04/29/22**Sample Location:** INDUSTRIAL BLVD.**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	111		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	122		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	116		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/01/22 15:08
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/01/22 15:08
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/01/22 15:08
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 04/30/22 13:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	104		25-120
Phenol-d6	106		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	91		18-120



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 20:10
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-20 Batch: WG1634686-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/22 20:10
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-20 Batch: WG1634686-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	68		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	74		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	75		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	46		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	41		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	45		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	43		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 11:59
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/05/22 06:27

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-20 Batch: WG1634686-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	106		10-117

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/06/22 17:23
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/06/22 03:28

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 38 Batch: WG1635192-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/06/22 17:23
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/06/22 03:28

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 38 Batch: WG1635192-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	95		22-136

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/15/22 19:34
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/06/22 03:28

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 38 Batch: WG1635192-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	75		10-112

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 18:40
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,07-08,11-15,17-18,21-30 Batch: WG1636027-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/09/22 18:40
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,07-08,11-15,17-18,21-30 Batch: WG1636027-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	68		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	45		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/17/22 14:53
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 09:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,07-08,11-15,17-18,21-30 Batch: WG1636027-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	108		10-117

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 01:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 31-37 Batch: WG1636273-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/10/22 01:55
 Analyst: HT

Extraction Method: ALPHA 23528
 Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 31-37 Batch: WG1636273-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	76		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	74	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	71	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	56		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	68	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	70	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	59		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	42		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	74		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	37		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	65		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	46		24-159

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/22 17:46
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/09/22 17:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 31-37 Batch: WG1636273-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	100		10-117

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 22:50
Analyst: RS
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 15:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 13,30 Batch: WG1636562-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 22:50
 Analyst: RS
 TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
 Extraction Date: 05/10/22 15:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 13,30 Batch: WG1636562-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	125		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	88		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	58		5-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		22-136



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 23:07
Analyst: RS
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 15:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 13,30 Batch: WG1636562-5					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.79	0.365
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.79	0.354
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.79	0.213
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.79	0.293
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.79	0.201
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.79	0.336
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.79	0.211
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.615
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.279
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.79	0.450
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.08
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.579
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.232
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.876
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.518
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.79	0.719
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.332
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.292
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 23:07
 Analyst: RS
 TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
 Extraction Date: 05/10/22 15:30

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 13,30 Batch: WG1636562-5					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	130		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	92		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	112		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	115		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		5-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	95		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	92		22-136



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 15:15
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 21-23,25-30 Batch: WG1636568-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 15:15
 Analyst: RS

Extraction Method: ALPHA 23528
 Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 21-23,25-30 Batch: WG1636568-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	6	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/12/22 10:21
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/10/22 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 21-23,25-30 Batch: WG1636568-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	96		10-117



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/22 21:59
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 31-32,34-37 Batch: WG1636990-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
 Analytical Date: 05/11/22 21:59
 Analyst: SG

Extraction Method: ALPHA 23528
 Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 31-32,34-37 Batch: WG1636990-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	56		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	40		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	68		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		24-159



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/13/22 08:27
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/11/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 31-32,34-37 Batch: WG1636990-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92		10-117

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-2 WG1632852-3								
Acenaphthene	77		80		31-137	4		50
1,2,4-Trichlorobenzene	77		82		38-107	6		50
Hexachlorobenzene	73		74		40-140	1		50
Bis(2-chloroethyl)ether	86		90		40-140	5		50
2-Chloronaphthalene	77		79		40-140	3		50
1,2-Dichlorobenzene	77		82		40-140	6		50
1,3-Dichlorobenzene	75		79		40-140	5		50
1,4-Dichlorobenzene	75		79		28-104	5		50
3,3'-Dichlorobenzidine	69		68		40-140	1		50
2,4-Dinitrotoluene	85		84		40-132	1		50
2,6-Dinitrotoluene	79		80		40-140	1		50
Fluoranthene	78		79		40-140	1		50
4-Chlorophenyl phenyl ether	74		75		40-140	1		50
4-Bromophenyl phenyl ether	74		76		40-140	3		50
Bis(2-chloroisopropyl)ether	113		119		40-140	5		50
Bis(2-chloroethoxy)methane	89		90		40-117	1		50
Hexachlorobutadiene	70		74		40-140	6		50
Hexachlorocyclopentadiene	44		47		40-140	7		50
Hexachloroethane	81		88		40-140	8		50
Isophorone	91		93		40-140	2		50
Naphthalene	77		81		40-140	5		50
Nitrobenzene	95		99		40-140	4		50
NDPA/DPA	79		81		36-157	3		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-2 WG1632852-3								
n-Nitrosodi-n-propylamine	94		97		32-121	3		50
Bis(2-ethylhexyl)phthalate	85		85		40-140	0		50
Butyl benzyl phthalate	84		83		40-140	1		50
Di-n-butylphthalate	90		89		40-140	1		50
Di-n-octylphthalate	86		88		40-140	2		50
Diethyl phthalate	81		82		40-140	1		50
Dimethyl phthalate	78		78		40-140	0		50
Benzo(a)anthracene	80		82		40-140	2		50
Benzo(a)pyrene	82		84		40-140	2		50
Benzo(b)fluoranthene	80		78		40-140	3		50
Benzo(k)fluoranthene	75		80		40-140	6		50
Chrysene	75		76		40-140	1		50
Acenaphthylene	78		80		40-140	3		50
Anthracene	79		80		40-140	1		50
Benzo(ghi)perylene	80		83		40-140	4		50
Fluorene	79		79		40-140	0		50
Phenanthrene	77		77		40-140	0		50
Dibenzo(a,h)anthracene	84		86		40-140	2		50
Indeno(1,2,3-cd)pyrene	92		95		40-140	3		50
Pyrene	76		77		35-142	1		50
Biphenyl	79		81		37-127	3		50
4-Chloroaniline	79		77		40-140	3		50
2-Nitroaniline	89		90		47-134	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-2 WG1632852-3								
3-Nitroaniline	69		69		26-129	0		50
4-Nitroaniline	88		88		41-125	0		50
Dibenzofuran	78		80		40-140	3		50
2-Methylnaphthalene	78		81		40-140	4		50
1,2,4,5-Tetrachlorobenzene	74		78		40-117	5		50
Acetophenone	88		91		14-144	3		50
2,4,6-Trichlorophenol	80		82		30-130	2		50
p-Chloro-m-cresol	88		89		26-103	1		50
2-Chlorophenol	86		90		25-102	5		50
2,4-Dichlorophenol	86		86		30-130	0		50
2,4-Dimethylphenol	89		90		30-130	1		50
2-Nitrophenol	84		88		30-130	5		50
4-Nitrophenol	115	Q	117	Q	11-114	2		50
2,4-Dinitrophenol	61		63		4-130	3		50
4,6-Dinitro-o-cresol	74		73		10-130	1		50
Pentachlorophenol	56		56		17-109	0		50
Phenol	92	Q	94	Q	26-90	2		50
2-Methylphenol	92		93		30-130.	1		50
3-Methylphenol/4-Methylphenol	98		98		30-130	0		50
2,4,5-Trichlorophenol	79		79		30-130	0		50
Benzoic Acid	64		60		10-110	6		50
Benzyl Alcohol	98		101		40-140	3		50
Carbazole	81		82		54-128	1		50

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632852-2 WG1632852-3								
1,4-Dioxane	59		65		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	94		99		25-120
Phenol-d6	97		97		10-120
Nitrobenzene-d5	96		99		23-120
2-Fluorobiphenyl	75		76		30-120
2,4,6-Tribromophenol	76		75		10-136
4-Terphenyl-d14	74		73		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 Batch: WG1634686-2								
Perfluorobutanoic Acid (PFBA)	90		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	92		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	90		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	98		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	89		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	94		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	100		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	91		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	98		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	87		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	102		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	90		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	102		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	101		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	94		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	96		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	96		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	107		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	95		-		69-133	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 Batch: WG1634686-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	47				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	51				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	79				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64				24-159

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 Batch: WG1634686-2								
Perfluorooctanesulfonamide (FOSA)	110		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	104				10-117

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 38 Batch: WG1635192-2								
Perfluorobutanoic Acid (PFBA)	93		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	92		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	91		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	90		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	103		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	95		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	97		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	96		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	92		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	96		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	91		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	104		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	89		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	96		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	93		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	93		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	94		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	101		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	99		-		59-182	-		30

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 38 Batch: WG1635192-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	103				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86				22-136

Lab Control Sample Analysis**Batch Quality Control****Project Name:** FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 38 Batch: WG1635192-2								
Perfluorooctanesulfonamide (FOSA)	112		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	71				10-112

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 Batch: WG1636027-2								
Perfluorobutanoic Acid (PFBA)	89		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	87		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	85		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	88		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	87		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	98		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	85		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	94		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	93		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	92		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	93		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	86		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	105		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	102		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	91		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	85		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	94		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	98		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	91		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	97		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	86		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 Batch: WG1636027-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66				24-159

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 Batch: WG1636027-2								
Perfluorooctanesulfonamide (FOSA)	103		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	114				10-117

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 Batch: WG1636273-2								
Perfluorobutanoic Acid (PFBA)	90		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	89		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	89		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	86		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	88		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	100		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	86		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	92		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	93		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	95		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	93		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	86		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	113		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	92		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	92		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	87		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	89		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	96		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	93		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	100		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	92		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 Batch: WG1636273-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	80				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	63				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	79				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	59				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	45				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	71				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	53				24-159

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 Batch: WG1636273-2								
Perfluorooctanesulfonamide (FOSA)	110		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	98				10-117

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 13,30 Batch: WG1636562-2								
Perfluorobutanoic Acid (PFBA)	90		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	89		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	87		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	88		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	88		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	103		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	94		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	91		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	101		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	93		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	105		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	85		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	101		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	99		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	101		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	86		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	96		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	98		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	96		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	92		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	89		-		59-182	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 13,30 Batch: WG1636562-2

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	127				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107				70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	88				12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	110				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63				5-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 Batch: WG1636568-2								
Perfluorobutanoic Acid (PFBA)	99		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	96		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	113		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	106		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	100		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	107		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	103		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	113		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	95		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	110		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	117		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	109		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	96		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	100		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	110		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	106		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	113		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		69-133	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 Batch: WG1636568-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	80				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	80				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	50				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	7	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63				24-159

Lab Control Sample Analysis**Batch Quality Control****Project Name:** FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 Batch: WG1636568-2								
Perfluorooctanesulfonamide (FOSA)	115		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	75				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 Batch: WG1636990-2								
Perfluorobutanoic Acid (PFBA)	96		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	96		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	100		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	99		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	97		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	106		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	101		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	113		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	105		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	112		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	102		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	78		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	88		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	88		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	112		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	104		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	90		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	101		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	138		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	120		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 Batch: WG1636990-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	59				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	63				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80				24-159

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 Batch: WG1636990-2								
Perfluorooctanesulfonamide (FOSA)	119		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	94				10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1634686-3 QC Sample: L2222691-01 Client ID: SB-1												
Perfluorobutanoic Acid (PFBA)	ND	5.37	4.80	89		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.37	4.86	91		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.76	4.61	97		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.37	4.88	91		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.37	4.88	91		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.9	4.64	95		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	5.37	4.83	90		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.11	4.34	85		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.12	5.16	101		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.37	4.88	91		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.267J	4.98	5.26	100		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.37	4.63	86		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.15	6.13	119		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.37	4.79	89		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.37	5.33	99		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.18	4.21	81		-	-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.37	5.09F	95		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.37	5.34	100		-	-		69-135	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab												
1												

Associated sample(s): 01-20 QC Batch ID: WG1634686-3 QC Sample: L2222691-01 Client ID: SB-

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	32				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	41				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	18	Q			34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	24	Q			31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	61				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69	Q			75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	66				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	66	Q			71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	72	Q			78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	45	Q			54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	12	Q			24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	65				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	66				58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	67	Q			79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	70	Q			75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	70	Q			72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	66	Q			74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 38 QC Batch ID: WG1635192-3 WG1635192-4 QC Sample: L2222134-14 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	2.29	36.7	36.2	92		36.5	93		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	4.02	36.7	37.9	92		38.6	94		63-161	2		30
Perfluorobutanesulfonic Acid (PFBS)	6.38	32.6	35.6	90		37.8	96		65-157	6		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	34.4	35.2	102		34.7	101		37-219	1		30
Perfluorohexanoic Acid (PFHxA)	3.58	36.7	36.7	90		37.7	93		69-168	3		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	34.6	33.9	98		33.0	95		52-156	3		30
Perfluoroheptanoic Acid (PFHpA)	3.14	36.7	38.1	95		37.9	94		58-159	1		30
Perfluorohexanesulfonic Acid (PFHxS)	0.849JF	33.6	36.9	107		36.5	106		69-177	1		30
Perfluorooctanoic Acid (PFOA)	7.22	36.7	44.2	101		40.5	90		63-159	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	34.9	33.4	96		34.3	98		49-187	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35	35.8	102		35.4	101		61-179	1		30
Perfluorononanoic Acid (PFNA)	1.32J	36.7	37.9	100		36.3	95		68-171	4		30
Perfluorooctanesulfonic Acid (PFOS)	8.62	34.1	43.3	102		43.0	101		52-151	1		30
Perfluorodecanoic Acid (PFDA)	0.387JF	36.7	35.7	96		33.7	90		63-171	6		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.2	36.1	102		39.4	112		56-173	9		30
Perfluorononanesulfonic Acid (PFNS)	ND	35.3	36.6	104		36.1	102		48-150	1		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	36.7	43.0	117		37.2	101		60-166	14		30
Perfluoroundecanoic Acid (PFUnA)	ND	36.7	37.6	102		37.2	101		60-153	1		30
Perfluorodecanesulfonic Acid (PFDS)	ND	35.4	31.1	88		29.4	83		38-156	6		30
Perfluorooctanesulfonamide (FOSA)	ND	36.7	35.7	97		37.0F	101		46-170	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	36.7	40.4	110		36.1	98		45-170	11		30
Perfluorododecanoic Acid (PFDoA)	ND	36.7	36.6	100		32.2	88		67-153	13		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 38 QC Batch ID: WG1635192-3 WG1635192-4 QC Sample: L2222134-14 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	36.7	35.2	96		32.4	88		48-158	8		30
Perfluorotetradecanoic Acid (PFTA)	ND	36.7	36.9	101		36.5	99		59-182	1		30

Surrogate (Extracted Internal Standard)	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	105		95		10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	161	Q	157	Q	12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	168	Q	159	Q	14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		60		27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		61		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78		79		55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		79		62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65		65		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	63		65		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		83		71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		77		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		70		22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		81		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		98		62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		8	Q	10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		83		69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		82		62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80		80		59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		79		70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 QC Batch ID: WG1636027-3 QC Sample: L2222691-21 Client ID: SB-16												
Perfluorobutanoic Acid (PFBA)	0.034J	4.91	4.26	86		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	4.91	4.25	87		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.36	3.69	85		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	4.91	4.19	85		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.91	4.33	88		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.49	4.26	95		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	4.91	4.41	90		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.68	4.17	89		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.69	4.45	95		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	4.91	4.36	89		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.56	4.10	90		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	4.91	4.32	88		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.72	4.42	94		-	-		65-137	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.91	4.23	86		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.75	3.49	74		-	-		59-134	-		30
Perfluorododecanoic Acid (PFDoA)	ND	4.91	4.23	86		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.91	4.90	100		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	0.080JF	4.91	5.10	102		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	46				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	45				20-154

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 QC Batch ID: WG1636027-3 QC Sample: L2222691-21 Client ID: SB-16												

Surrogate (Extracted Internal Standard)	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7	Q			34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	6	Q			31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	59	Q			61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	58	Q			75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	59	Q			66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	59	Q			71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	64	Q			78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	49	Q			54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	12	Q			24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	60	Q			61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	64				58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	60	Q			79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	60	Q			75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	61	Q			72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	63	Q			74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 QC Batch ID: WG1636273-3 QC Sample: L2222075-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.99	4.39	88		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	4.99	4.41	88		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.43	3.77	85		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.68	4.33	93		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	ND	4.99	4.39	88		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.7	4.11	87		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.99	4.35	87		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.56	4.44	97		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.072J	4.99	4.28	84		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.75	4.38	92		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.76	4.16	87		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	4.99	4.28	86		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.230J	4.63	4.29	88		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	4.99	4.36	87		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.79	5.20	109		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.8	4.51	94		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.99	4.81	96		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.99	4.60	92		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.82	3.57	74		-	-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.99	4.58	92		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	4.99	4.53	91		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.99	5.11	102		-	-		66-139	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 QC Batch ID: WG1636273-3 QC Sample: L2222075-01 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	4.99	4.97	100		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	58				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	56				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	59				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	34				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	33				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	71				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	71	Q			75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	72				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	63				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	22	Q			24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	67				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71				58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	74	Q			75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79				74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 13,30 QC Batch ID: WG1636562-3 QC Sample: L2222691-13 Client ID: SB-8												
Perfluorobutanoic Acid (PFBA)	ND	37.4	33.8	90	-	-	-	-	67-148	-	-	30
Perfluoropentanoic Acid (PFPeA)	0.452J	37.4	33.4	88	-	-	-	-	63-161	-	-	30
Perfluorobutanesulfonic Acid (PFBS)	ND	33.2	29.0	87	-	-	-	-	65-157	-	-	30
Perfluorohexanoic Acid (PFHxA)	0.632J	37.4	33.5	88	-	-	-	-	69-168	-	-	30
Perfluoroheptanoic Acid (PFHpA)	ND	37.4	33.3	89	-	-	-	-	58-159	-	-	30
Perfluorohexanesulfonic Acid (PFHxS)	1.39JF	34.2	37.0F	104	-	-	-	-	69-177	-	-	30
Perfluorooctanoic Acid (PFOA)	0.911J	37.4	35.8	93	-	-	-	-	63-159	-	-	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	35.6	33.8	95	-	-	-	-	49-187	-	-	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35.7	37.4	105	-	-	-	-	61-179	-	-	30
Perfluorononanoic Acid (PFNA)	ND	37.4	35.9	96	-	-	-	-	68-171	-	-	30
Perfluorooctanesulfonic Acid (PFOS)	36.0	34.7	73.8	109	-	-	-	-	52-151	-	-	30
Perfluorodecanoic Acid (PFDA)	ND	37.4	33.2	89	-	-	-	-	63-171	-	-	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.9	33.3	93	-	-	-	-	56-173	-	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.4	36.6	98	-	-	-	-	60-166	-	-	30
Perfluoroundecanoic Acid (PFUnA)	ND	37.4	36.5	98	-	-	-	-	60-153	-	-	30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.1	32.4	90	-	-	-	-	38-156	-	-	30
Perfluorooctanesulfonamide (FOSA)	ND	37.4	34.2	92	-	-	-	-	46-170	-	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.4	36.3	97	-	-	-	-	45-170	-	-	30
Perfluorododecanoic Acid (PFDoA)	ND	37.4	35.6	95	-	-	-	-	67-153	-	-	30
Perfluorotridecanoic Acid (PFTrDA)	ND	37.4	37.1	99	-	-	-	-	48-158	-	-	30
Perfluorotetradecanoic Acid (PFTA)	ND	37.4	34.7	93	-	-	-	-	59-182	-	-	30

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 13,30 QC Batch ID: WG1636562-3 QC Sample: L2222691-13 Client ID: SB-8

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	126				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	90				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101				14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	110				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	112				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	100				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	105				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	126				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33				5-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111				70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 QC Batch ID: WG1636568-3 QC Sample: L2221913-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	0.028J	5.35	4.91	91	-	-	-	-	71-135	-	-	30
Perfluoropentanoic Acid (PFPeA)	0.053J	5.35	4.87	90	-	-	-	-	69-132	-	-	30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.75	4.11	87	-	-	-	-	72-128	-	-	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.02	4.76	95	-	-	-	-	62-145	-	-	30
Perfluorohexanoic Acid (PFHxA)	ND	5.35	4.90	92	-	-	-	-	70-132	-	-	30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.04	4.58	91	-	-	-	-	73-123	-	-	30
Perfluoroheptanoic Acid (PFHpA)	ND	5.35	4.84	90	-	-	-	-	71-131	-	-	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.89	4.95	101	-	-	-	-	67-130	-	-	30
Perfluorooctanoic Acid (PFOA)	0.050JF	5.35	4.95	92	-	-	-	-	69-133	-	-	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.1	4.81	94	-	-	-	-	64-140	-	-	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.11	5.00	98	-	-	-	-	70-132	-	-	30
Perfluorononanoic Acid (PFNA)	ND	5.35	5.22	98	-	-	-	-	72-129	-	-	30
Perfluorooctanesulfonic Acid (PFOS)	0.585	4.97	5.54	100	-	-	-	-	68-136	-	-	30
Perfluorodecanoic Acid (PFDA)	ND	5.35	4.66	87	-	-	-	-	69-133	-	-	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.14	5.25	102	-	-	-	-	65-137	-	-	30
Perfluorononanesulfonic Acid (PFNS)	ND	5.15	5.43	105	-	-	-	-	69-125	-	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.35	5.06	95	-	-	-	-	63-144	-	-	30
Perfluoroundecanoic Acid (PFUnA)	ND	5.35	5.10	95	-	-	-	-	64-136	-	-	30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.17	4.45	86	-	-	-	-	59-134	-	-	30
Perfluorooctanesulfonamide (FOSA)	ND	5.35	5.17	97	-	-	-	-	67-137	-	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.35	5.57	104	-	-	-	-	61-139	-	-	30
Perfluorododecanoic Acid (PFDoA)	ND	5.35	5.00	93	-	-	-	-	69-135	-	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 QC Batch ID: WG1636568-3 QC Sample: L2221913-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.35	5.12	96		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.35	5.12	96		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	72				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	90				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95				74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 QC Batch ID: WG1636990-3 WG1636990-4 QC Sample: L2223093-27 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.18	4.66	90		4.83	95		71-135	4		30
Perfluoropentanoic Acid (PFPeA)	ND	5.18	4.64	90		4.78	94		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.6	4.27	93		4.53	100		72-128	6		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.86	4.42	91		4.41	92		62-145	0		30
Perfluorohexanoic Acid (PFHxA)	ND	5.18	4.72	91		4.86	95		70-132	3		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.88	4.54	93		4.44	92		73-123	2		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.18	4.71	91		4.89	96		71-131	4		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.74	4.69	99		4.86	104		67-130	4		30
Perfluorooctanoic Acid (PFOA)	ND	5.18	4.91	95		4.99	98		69-133	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.93	4.97	101		4.54	94		64-140	9		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.94	5.14	104		5.38	111		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	5.18	5.20	100		5.55	109		72-129	7		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.81	4.93	102		5.18	109		68-136	5		30
Perfluorodecanoic Acid (PFDA)	ND	5.18	4.85	94		5.10	100		69-133	5		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.98	3.63	73		4.55	93		65-137	22		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.99	5.05	101		5.09	104		69-125	1		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.18	4.69F	91		4.91F	96		63-144	5		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.18	4.20	81		4.68	92		64-136	11		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.01	5.17	103		5.05	102		59-134	2		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.18	3.95F	76		4.49F	88		61-139	13		30
Perfluorododecanoic Acid (PFDoA)	ND	5.18	4.69	91		4.99	98		69-135	6		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.18	7.03	136		7.72	151	Q	66-139	9		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 QC Batch ID: WG1636990-3 WG1636990-4 QC Sample: L2223093-27 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.18	5.68	110		6.18	121		69-133	8		30

Surrogate (Extracted Internal Standard)	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		64		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	57		59		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	63		62		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	25	Q	22	Q	34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	16	Q	20	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		101		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		88		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		84		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		97		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		49		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		81		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		87		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		92		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		89		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		82		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		86		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 QC Batch ID: WG1636990-5 WG1636990-6 QC Sample: L2224044-05 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.36	4.70	88		4.84	91		71-135	3		30
Perfluoropentanoic Acid (PFPeA)	ND	5.36	4.77	89		4.90	92		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.76	4.59	96		4.76	100		72-128	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.03	4.27	85		4.33	87		62-145	1		30
Perfluorohexanoic Acid (PFHxA)	ND	5.36	4.82	90		5.60	105		70-132	15		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.05	4.49	89		4.73	94		73-123	5		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.36	4.94	92		5.06	95		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.9	4.98	102		5.25	108		67-130	5		30
Perfluorooctanoic Acid (PFOA)	ND	5.36	5.10	95		5.49	103		69-133	7		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.1	5.27	103		5.16	102		64-140	2		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.11	5.51	108		5.70	112		70-132	3		30
Perfluorononanoic Acid (PFNA)	ND	5.36	5.73	107		5.98	112		72-129	4		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.97	5.06	102		5.46	110		68-136	8		30
Perfluorodecanoic Acid (PFDA)	ND	5.36	5.28	99		5.51	103		69-133	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.14	4.14	81		4.20	82		65-137	1		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.16	5.32	103		5.60	109		69-125	5		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.36	4.48	84		4.58	86		64-136	2		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.18	5.80	112		5.44	106		59-134	6		30
Perfluorododecanoic Acid (PFDoA)	ND	5.36	5.08	95		5.09	95		69-135	0		30
Perfluorotridecanoic Acid (PFTTrDA)	ND	5.36	5.96	111		6.56	123		66-139	10		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.36	5.78	108		6.05	113		69-133	5		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 QC Batch ID: WG1636990-5 WG1636990-6 QC Sample: L2224044-05 Client ID: MS Sample

Surrogate (Extracted Internal Standard)	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	72		75		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	62		60		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	64		68		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9	Q	9	Q	34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	8	Q	5	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	47	Q	40	Q	61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	30	Q	25	Q	75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	16	Q	13	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	15	Q	14	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		99		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	59		52	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		59		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	17	Q	14	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	18	Q	15	Q	58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		95		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	17	Q	15	Q	75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	20	Q	17	Q	72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		89		74-139

Matrix Spike Analysis**Batch Quality Control****Project Name:** FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-32,34-37 QC Batch ID: WG1636990-5 WG1636990-6 QC Sample: L2224044-05 Client ID: MS Sample												
Perfluorooctanesulfonamide (FOSA)	ND	5.36	6.08	113		6.06	114		67-137	0		30

Surrogate (Extracted Internal Standard)	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	91		90		10-117

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1634686-4 QC Sample: L2222691-02 Client ID: SB-2						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	0.347F	0.409F	ng/g	16		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.245J	0.192J	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1634686-4 QC Sample: L2222691-02 Client ID: SB-2						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		86		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		88		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		90		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	51		51		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	49		56		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		88		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63		60		24-159

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 QC Batch ID: WG1636027-4 QC Sample: L2222691-22 Client ID: SB-17						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
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Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,07-08,11-15,17-18,21-30 QC Batch ID: WG1636027-4 QC Sample: L2222691-22 Client ID: SB-17						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	57	Q	52	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	60		55	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	59	Q	58	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	57	Q	50	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	59	Q	52	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	60	Q	59	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	58	Q	50	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	36		35		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	60	Q	56	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	54	Q	55	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	57	Q	52	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	37		32		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	5	Q	5	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	53	Q	50	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	4	Q	3	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	47	Q	41	Q	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	16	Q	13	Q	24-159

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 QC Batch ID: WG1636273-4 QC Sample: L2222075-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.122J	0.085JF	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 QC Batch ID: WG1636273-4 QC Sample: L2222075-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		85		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		89		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		85		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	57		59		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		85		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		87		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	61		63		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		91		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79		88		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		81		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		49		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		89		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76		86		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		54		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		83		54-150

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 31-37 QC Batch ID: WG1636273-4 QC Sample: L2222075-02 Client ID: DUP Sample						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60		68		24-159

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 13,30 QC Batch ID: WG1636562-4 QC Sample: L2222691-30 Client ID: SB-24						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	0.410J	0.436J	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	0.279JF	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	1.84J	1.98	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	3.02	1.83	ng/l	49	Q	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 13,30 QC Batch ID: WG1636562-4 QC Sample: L2222691-30 Client ID: SB-24						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		84		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	127		103		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	114		102		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	91		81		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		86		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	111		89		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		106		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		91		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99		87		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		93		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		100		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		100		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		106		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		71		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		97		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		27		5-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		83		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		93		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	96		90		22-136

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 QC Batch ID: WG1636568-4 QC Sample: L2221913-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	0.052J	0.079J	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	0.087J	0.147J	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	0.156J	0.142J	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.121JF	0.137J	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	0.111JF	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.478	0.690	ng/g	36	Q	30
Perfluorodecanoic Acid (PFDA)	ND	0.084JF	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-23,25-30 QC Batch ID: WG1636568-4 QC Sample: L2221913-02 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	74		65		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	80		71		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		73	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	59		51		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		68		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		69	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		73	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		69	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	63		58		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		75		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79		68	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		67	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		71		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	31		27	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		70		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	35		29	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		63		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	24		15	Q	24-159

PCBS

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 15:46
Analyst: JM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.23	1	A
Aroclor 1221	ND		ug/kg	36.3	3.64	1	A
Aroclor 1232	ND		ug/kg	36.3	7.70	1	A
Aroclor 1242	ND		ug/kg	36.3	4.90	1	A
Aroclor 1248	ND		ug/kg	36.3	5.45	1	A
Aroclor 1254	ND		ug/kg	36.3	3.98	1	A
Aroclor 1260	ND		ug/kg	36.3	6.72	1	A
Aroclor 1262	ND		ug/kg	36.3	4.62	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 15:53
Analyst: JM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	3.12	1	A
Aroclor 1221	ND		ug/kg	35.1	3.52	1	A
Aroclor 1232	ND		ug/kg	35.1	7.45	1	A
Aroclor 1242	ND		ug/kg	35.1	4.74	1	A
Aroclor 1248	ND		ug/kg	35.1	5.27	1	A
Aroclor 1254	ND		ug/kg	35.1	3.84	1	A
Aroclor 1260	ND		ug/kg	35.1	6.49	1	A
Aroclor 1262	ND		ug/kg	35.1	4.46	1	A
Aroclor 1268	ND		ug/kg	35.1	3.64	1	A
PCBs, Total	ND		ug/kg	35.1	3.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
Client ID: SB-3
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:00
Analyst: JM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	3.20	1	A
Aroclor 1221	ND		ug/kg	36.0	3.61	1	A
Aroclor 1232	ND		ug/kg	36.0	7.63	1	A
Aroclor 1242	ND		ug/kg	36.0	4.85	1	A
Aroclor 1248	ND		ug/kg	36.0	5.40	1	A
Aroclor 1254	ND		ug/kg	36.0	3.94	1	A
Aroclor 1260	ND		ug/kg	36.0	6.65	1	A
Aroclor 1262	ND		ug/kg	36.0	4.57	1	A
Aroclor 1268	ND		ug/kg	36.0	3.73	1	A
PCBs, Total	ND		ug/kg	36.0	3.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	54		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:07
Analyst: JM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.6	3.25	1	A
Aroclor 1221	ND		ug/kg	36.6	3.67	1	A
Aroclor 1232	ND		ug/kg	36.6	7.77	1	A
Aroclor 1242	ND		ug/kg	36.6	4.94	1	A
Aroclor 1248	ND		ug/kg	36.6	5.50	1	A
Aroclor 1254	ND		ug/kg	36.6	4.01	1	A
Aroclor 1260	ND		ug/kg	36.6	6.77	1	A
Aroclor 1262	ND		ug/kg	36.6	4.65	1	A
Aroclor 1268	ND		ug/kg	36.6	3.80	1	A
PCBs, Total	ND		ug/kg	36.6	3.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	64		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-06
Client ID: SB-4
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:14
Analyst: JM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.23	1	A
Aroclor 1221	ND		ug/kg	36.3	3.64	1	A
Aroclor 1232	ND		ug/kg	36.3	7.70	1	A
Aroclor 1242	ND		ug/kg	36.3	4.90	1	A
Aroclor 1248	ND		ug/kg	36.3	5.45	1	A
Aroclor 1254	ND		ug/kg	36.3	3.98	1	A
Aroclor 1260	ND		ug/kg	36.3	6.72	1	A
Aroclor 1262	ND		ug/kg	36.3	4.62	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:20
Analyst: JM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	3.21	1	A
Aroclor 1221	ND		ug/kg	36.1	3.62	1	A
Aroclor 1232	ND		ug/kg	36.1	7.66	1	A
Aroclor 1242	ND		ug/kg	36.1	4.87	1	A
Aroclor 1248	ND		ug/kg	36.1	5.42	1	A
Aroclor 1254	ND		ug/kg	36.1	3.95	1	A
Aroclor 1260	ND		ug/kg	36.1	6.68	1	A
Aroclor 1262	ND		ug/kg	36.1	4.59	1	A
Aroclor 1268	ND		ug/kg	36.1	3.74	1	A
PCBs, Total	ND		ug/kg	36.1	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	69		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:27
Analyst: JM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	3.43	1	A
Aroclor 1221	ND		ug/kg	38.6	3.87	1	A
Aroclor 1232	ND		ug/kg	38.6	8.19	1	A
Aroclor 1242	ND		ug/kg	38.6	5.21	1	A
Aroclor 1248	ND		ug/kg	38.6	5.80	1	A
Aroclor 1254	ND		ug/kg	38.6	4.23	1	A
Aroclor 1260	ND		ug/kg	38.6	7.14	1	A
Aroclor 1262	ND		ug/kg	38.6	4.91	1	A
Aroclor 1268	ND		ug/kg	38.6	4.00	1	A
PCBs, Total	ND		ug/kg	38.6	3.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	67		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:34
Analyst: JM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	3.17	1	A
Aroclor 1221	ND		ug/kg	35.7	3.57	1	A
Aroclor 1232	ND		ug/kg	35.7	7.56	1	A
Aroclor 1242	ND		ug/kg	35.7	4.81	1	A
Aroclor 1248	ND		ug/kg	35.7	5.35	1	A
Aroclor 1254	ND		ug/kg	35.7	3.90	1	A
Aroclor 1260	ND		ug/kg	35.7	6.59	1	A
Aroclor 1262	ND		ug/kg	35.7	4.53	1	A
Aroclor 1268	ND		ug/kg	35.7	3.69	1	A
PCBs, Total	ND		ug/kg	35.7	3.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	51		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-10
Client ID: SB-6
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:41
Analyst: JM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.8	3.54	1	A
Aroclor 1221	ND		ug/kg	39.8	3.99	1	A
Aroclor 1232	ND		ug/kg	39.8	8.45	1	A
Aroclor 1242	ND		ug/kg	39.8	5.37	1	A
Aroclor 1248	ND		ug/kg	39.8	5.98	1	A
Aroclor 1254	ND		ug/kg	39.8	4.36	1	A
Aroclor 1260	ND		ug/kg	39.8	7.36	1	A
Aroclor 1262	ND		ug/kg	39.8	5.06	1	A
Aroclor 1268	ND		ug/kg	39.8	4.13	1	A
PCBs, Total	ND		ug/kg	39.8	3.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	70		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:48
Analyst: JM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.04	1	A
Aroclor 1221	ND		ug/kg	34.3	3.44	1	A
Aroclor 1232	ND		ug/kg	34.3	7.27	1	A
Aroclor 1242	ND		ug/kg	34.3	4.62	1	A
Aroclor 1248	ND		ug/kg	34.3	5.14	1	A
Aroclor 1254	ND		ug/kg	34.3	3.75	1	A
Aroclor 1260	ND		ug/kg	34.3	6.34	1	A
Aroclor 1262	ND		ug/kg	34.3	4.36	1	A
Aroclor 1268	ND		ug/kg	34.3	3.55	1	A
PCBs, Total	ND		ug/kg	34.3	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 16:55
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	3.19	1	A
Aroclor 1221	ND		ug/kg	35.9	3.60	1	A
Aroclor 1232	ND		ug/kg	35.9	7.62	1	A
Aroclor 1242	ND		ug/kg	35.9	4.84	1	A
Aroclor 1248	ND		ug/kg	35.9	5.39	1	A
Aroclor 1254	ND		ug/kg	35.9	3.93	1	A
Aroclor 1260	ND		ug/kg	35.9	6.64	1	A
Aroclor 1262	ND		ug/kg	35.9	4.56	1	A
Aroclor 1268	ND		ug/kg	35.9	3.72	1	A
PCBs, Total	ND		ug/kg	35.9	3.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	70		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14
Client ID: SB-9
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:01
Analyst: JM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	3.12	1	A
Aroclor 1221	ND		ug/kg	35.2	3.52	1	A
Aroclor 1232	ND		ug/kg	35.2	7.45	1	A
Aroclor 1242	ND		ug/kg	35.2	4.74	1	A
Aroclor 1248	ND		ug/kg	35.2	5.27	1	A
Aroclor 1254	ND		ug/kg	35.2	3.85	1	A
Aroclor 1260	ND		ug/kg	35.2	6.50	1	A
Aroclor 1262	ND		ug/kg	35.2	4.46	1	A
Aroclor 1268	ND		ug/kg	35.2	3.64	1	A
PCBs, Total	ND		ug/kg	35.2	3.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	52		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:08
Analyst: JM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.06	1	A
Aroclor 1221	ND		ug/kg	34.4	3.45	1	A
Aroclor 1232	ND		ug/kg	34.4	7.30	1	A
Aroclor 1242	ND		ug/kg	34.4	4.64	1	A
Aroclor 1248	ND		ug/kg	34.4	5.16	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.36	1	A
Aroclor 1262	ND		ug/kg	34.4	4.37	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:15
Analyst: JM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.48	1	A
Aroclor 1232	ND		ug/kg	34.7	7.36	1	A
Aroclor 1242	ND		ug/kg	34.7	4.68	1	A
Aroclor 1248	ND		ug/kg	34.7	5.20	1	A
Aroclor 1254	ND		ug/kg	34.7	3.80	1	A
Aroclor 1260	ND		ug/kg	34.7	6.41	1	A
Aroclor 1262	ND		ug/kg	34.7	4.41	1	A
Aroclor 1268	ND		ug/kg	34.7	3.59	1	A
PCBs, Total	ND		ug/kg	34.7	3.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:22
Analyst: JM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.48	1	A
Aroclor 1232	ND		ug/kg	34.7	7.37	1	A
Aroclor 1242	ND		ug/kg	34.7	4.68	1	A
Aroclor 1248	ND		ug/kg	34.7	5.21	1	A
Aroclor 1254	ND		ug/kg	34.7	3.80	1	A
Aroclor 1260	ND		ug/kg	34.7	6.42	1	A
Aroclor 1262	ND		ug/kg	34.7	4.41	1	A
Aroclor 1268	ND		ug/kg	34.7	3.60	1	A
PCBs, Total	ND		ug/kg	34.7	3.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:29
Analyst: JM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.50	1	A
Aroclor 1232	ND		ug/kg	34.9	7.40	1	A
Aroclor 1242	ND		ug/kg	34.9	4.70	1	A
Aroclor 1248	ND		ug/kg	34.9	5.24	1	A
Aroclor 1254	ND		ug/kg	34.9	3.82	1	A
Aroclor 1260	ND		ug/kg	34.9	6.45	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.62	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32
Client ID: SB-25
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:36
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.1	3.56	1	A
Aroclor 1221	ND		ug/kg	40.1	4.02	1	A
Aroclor 1232	ND		ug/kg	40.1	8.51	1	A
Aroclor 1242	ND		ug/kg	40.1	5.41	1	A
Aroclor 1248	ND		ug/kg	40.1	6.02	1	A
Aroclor 1254	ND		ug/kg	40.1	4.39	1	A
Aroclor 1260	ND		ug/kg	40.1	7.42	1	A
Aroclor 1262	ND		ug/kg	40.1	5.10	1	A
Aroclor 1268	ND		ug/kg	40.1	4.16	1	A
PCBs, Total	ND		ug/kg	40.1	3.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	53		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34
Client ID: SB-27 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:49
Analyst: JM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.47	1	A
Aroclor 1232	ND		ug/kg	34.7	7.35	1	A
Aroclor 1242	ND		ug/kg	34.7	4.67	1	A
Aroclor 1248	ND		ug/kg	34.7	5.20	1	A
Aroclor 1254	ND		ug/kg	34.7	3.79	1	A
Aroclor 1260	ND		ug/kg	34.7	6.41	1	A
Aroclor 1262	ND		ug/kg	34.7	4.40	1	A
Aroclor 1268	ND		ug/kg	34.7	3.59	1	A
PCBs, Total	ND		ug/kg	34.7	3.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35
Client ID: SB-27
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 17:56
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	3.34	1	A
Aroclor 1221	ND		ug/kg	37.6	3.77	1	A
Aroclor 1232	ND		ug/kg	37.6	7.98	1	A
Aroclor 1242	ND		ug/kg	37.6	5.07	1	A
Aroclor 1248	ND		ug/kg	37.6	5.64	1	A
Aroclor 1254	ND		ug/kg	37.6	4.12	1	A
Aroclor 1260	ND		ug/kg	37.6	6.95	1	A
Aroclor 1262	ND		ug/kg	37.6	4.78	1	A
Aroclor 1268	ND		ug/kg	37.6	3.90	1	A
PCBs, Total	ND		ug/kg	37.6	3.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	67		30-150	B



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/02/22 18:03
Analyst: JM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	3.40	1	A
Aroclor 1221	ND		ug/kg	38.4	3.84	1	A
Aroclor 1232	ND		ug/kg	38.4	8.13	1	A
Aroclor 1242	ND		ug/kg	38.4	5.17	1	A
Aroclor 1248	ND		ug/kg	38.4	5.75	1	A
Aroclor 1254	ND		ug/kg	38.4	4.20	1	A
Aroclor 1260	ND		ug/kg	38.4	7.09	1	A
Aroclor 1262	ND		ug/kg	38.4	4.87	1	A
Aroclor 1268	ND		ug/kg	38.4	3.97	1	A
PCBs, Total	ND		ug/kg	38.4	3.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/02/22 15:26
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/30/22 10:29
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
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Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37
 Batch: WG1632821-1

Aroclor 1016	ND		ug/kg	32.8	2.91	A
Aroclor 1221	ND		ug/kg	32.8	3.28	A
Aroclor 1232	ND		ug/kg	32.8	6.95	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.91	A
Aroclor 1254	ND		ug/kg	32.8	3.58	A
Aroclor 1260	ND		ug/kg	32.8	6.06	A
Aroclor 1262	ND		ug/kg	32.8	4.16	A
Aroclor 1268	ND		ug/kg	32.8	3.39	A
PCBs, Total	ND		ug/kg	32.8	2.91	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	66		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632821-2 WG1632821-3									
Aroclor 1016	79		71		40-140	11		50	A
Aroclor 1260	83		75		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		71		30-150	A
Decachlorobiphenyl	81		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		73		30-150	B
Decachlorobiphenyl	76		74		30-150	B

PESTICIDES

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 10:25
Analyst: AR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.349	1	A
Lindane	ND		ug/kg	0.743	0.332	1	A
Alpha-BHC	ND		ug/kg	0.743	0.211	1	A
Beta-BHC	ND		ug/kg	1.78	0.676	1	A
Heptachlor	ND		ug/kg	0.892	0.400	1	A
Aldrin	ND		ug/kg	1.78	0.628	1	A
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1	A
Endrin	ND		ug/kg	0.743	0.305	1	A
Endrin aldehyde	ND		ug/kg	2.23	0.780	1	A
Endrin ketone	ND		ug/kg	1.78	0.459	1	A
Dieldrin	ND		ug/kg	1.11	0.557	1	A
4,4'-DDE	1.42	J	ug/kg	1.78	0.412	1	A
4,4'-DDD	ND		ug/kg	1.78	0.636	1	A
4,4'-DDT	ND		ug/kg	3.34	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.421	1	A
Endosulfan II	ND		ug/kg	1.78	0.596	1	A
Endosulfan sulfate	ND		ug/kg	0.743	0.354	1	A
Methoxychlor	ND		ug/kg	3.34	1.04	1	A
Toxaphene	ND		ug/kg	33.4	9.36	1	A
cis-Chlordane	ND		ug/kg	2.23	0.621	1	A
trans-Chlordane	ND		ug/kg	2.23	0.588	1	A
Chlordane	ND		ug/kg	14.9	5.91	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-02

Date Collected: 04/28/22 11:25

Client ID: SB-2

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 10:36
Analyst: AR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.861	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.606	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.969	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	0.609	J	ug/kg	1.72	0.398	1	B
4,4'-DDD	ND		ug/kg	1.72	0.614	1	A
4,4'-DDT	ND		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.04	1	A
cis-Chlordane	ND		ug/kg	2.15	0.600	1	A
trans-Chlordane	ND		ug/kg	2.15	0.568	1	A
Chlordane	ND		ug/kg	14.4	5.71	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-03

Date Collected: 04/28/22 10:20

Client ID: SB-3 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
Client ID: SB-3
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 10:47
Analyst: AR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.704	0.314	1	A
Alpha-BHC	ND		ug/kg	0.704	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.844	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.950	1	A
Endrin	ND		ug/kg	0.704	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.739	1	A
Endrin ketone	ND		ug/kg	1.69	0.435	1	A
Dieldrin	ND		ug/kg	1.06	0.528	1	A
4,4'-DDE	ND		ug/kg	1.69	0.390	1	A
4,4'-DDD	ND		ug/kg	1.69	0.602	1	A
4,4'-DDT	ND		ug/kg	3.16	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.704	0.335	1	A
Methoxychlor	ND		ug/kg	3.16	0.985	1	A
Toxaphene	ND		ug/kg	31.6	8.86	1	A
cis-Chlordane	ND		ug/kg	2.11	0.588	1	A
trans-Chlordane	ND		ug/kg	2.11	0.557	1	A
Chlordane	ND		ug/kg	14.1	5.59	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-04

Date Collected: 04/28/22 10:20

Client ID: SB-3

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 10:58
Analyst: AR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.717	0.320	1	A
Alpha-BHC	ND		ug/kg	0.717	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.652	1	A
Heptachlor	ND		ug/kg	0.860	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.606	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.968	1	A
Endrin	ND		ug/kg	0.717	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.753	1	A
Endrin ketone	ND		ug/kg	1.72	0.443	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	ND		ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.614	1	A
4,4'-DDT	ND		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.406	1	A
Endosulfan II	ND		ug/kg	1.72	0.575	1	A
Endosulfan sulfate	ND		ug/kg	0.717	0.341	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.04	1	A
cis-Chlordane	ND		ug/kg	2.15	0.599	1	A
trans-Chlordane	ND		ug/kg	2.15	0.568	1	A
Chlordane	ND		ug/kg	14.3	5.70	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-05

Date Collected: 04/28/22 09:35

Client ID: SB-4 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-06
Client ID: SB-4
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 11:09
Analyst: AR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.724	0.324	1	A
Alpha-BHC	ND		ug/kg	0.724	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.659	1	A
Heptachlor	ND		ug/kg	0.869	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.978	1	A
Endrin	ND		ug/kg	0.724	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.760	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	ND		ug/kg	1.09	0.543	1	A
4,4'-DDE	ND		ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.620	1	A
4,4'-DDT	ND		ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.724	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.12	1	A
cis-Chlordane	ND		ug/kg	2.17	0.605	1	A
trans-Chlordane	ND		ug/kg	2.17	0.573	1	A
Chlordane	ND		ug/kg	14.5	5.76	1	A



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-06

Date Collected: 04/28/22 09:35

Client ID: SB-4

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 11:20
Analyst: AR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.332	1	A
Lindane	ND		ug/kg	0.706	0.316	1	A
Alpha-BHC	ND		ug/kg	0.706	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.847	0.380	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.953	1	A
Endrin	ND		ug/kg	0.706	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.741	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.69	0.392	1	A
4,4'-DDD	ND		ug/kg	1.69	0.604	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.566	1	A
Endosulfan sulfate	ND		ug/kg	0.706	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.988	1	A
Toxaphene	ND		ug/kg	31.8	8.90	1	A
cis-Chlordane	ND		ug/kg	2.12	0.590	1	A
trans-Chlordane	ND		ug/kg	2.12	0.559	1	A
Chlordane	ND		ug/kg	14.1	5.61	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-07

Date Collected: 04/27/22 11:55

Client ID: SB-5 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	114		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 11:31
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.759	0.339	1	A
Alpha-BHC	ND		ug/kg	0.759	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.690	1	A
Heptachlor	ND		ug/kg	0.911	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.641	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.759	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.797	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	ND		ug/kg	1.14	0.569	1	A
4,4'-DDE	ND		ug/kg	1.82	0.421	1	A
4,4'-DDD	ND		ug/kg	1.82	0.650	1	A
4,4'-DDT	ND		ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.609	1	A
Endosulfan sulfate	ND		ug/kg	0.759	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.56	1	A
cis-Chlordane	ND		ug/kg	2.28	0.634	1	A
trans-Chlordane	ND		ug/kg	2.28	0.601	1	A
Chlordane	ND		ug/kg	15.2	6.03	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-08

Date Collected: 04/27/22 11:55

Client ID: SB-5

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	103		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 11:42
Analyst: AR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.708	0.316	1	A
Alpha-BHC	ND		ug/kg	0.708	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.850	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.956	1	A
Endrin	ND		ug/kg	0.708	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.744	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.531	1	A
4,4'-DDE	1.47	J	ug/kg	1.70	0.393	1	B
4,4'-DDD	ND		ug/kg	1.70	0.606	1	A
4,4'-DDT	7.40		ug/kg	3.19	1.37	1	B
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	ND		ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.708	0.337	1	A
Methoxychlor	ND		ug/kg	3.19	0.991	1	A
Toxaphene	ND		ug/kg	31.9	8.92	1	A
cis-Chlordane	ND		ug/kg	2.12	0.592	1	A
trans-Chlordane	ND		ug/kg	2.12	0.561	1	A
Chlordane	ND		ug/kg	14.2	5.63	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-09

Date Collected: 04/27/22 12:45

Client ID: SB-6 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-10
Client ID: SB-6
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 11:53
Analyst: AR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.218	1	A
Beta-BHC	ND		ug/kg	1.85	0.700	1	A
Heptachlor	ND		ug/kg	0.924	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	ND		ug/kg	1.85	0.427	1	A
4,4'-DDD	ND		ug/kg	1.85	0.659	1	A
4,4'-DDT	ND		ug/kg	3.46	1.48	1	A
Endosulfan I	ND		ug/kg	1.85	0.436	1	A
Endosulfan II	ND		ug/kg	1.85	0.617	1	A
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	ND		ug/kg	2.31	0.643	1	A
trans-Chlordane	ND		ug/kg	2.31	0.610	1	A
Chlordane	ND		ug/kg	15.4	6.12	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10

Date Collected: 04/27/22 12:45

Client ID: SB-6

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 12:04
Analyst: AR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.827	0.371	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.724	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.590	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.391	1	A
Endosulfan II	ND		ug/kg	1.65	0.553	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.965	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	ND		ug/kg	2.07	0.576	1	A
trans-Chlordane	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.8	5.48	1	A

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 12:15
Analyst: AR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.750	0.335	1	A
Alpha-BHC	ND		ug/kg	0.750	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.682	1	A
Heptachlor	ND		ug/kg	0.900	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.634	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.750	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.25	0.787	1	A
Endrin ketone	ND		ug/kg	1.80	0.463	1	A
Dieldrin	ND		ug/kg	1.12	0.562	1	A
4,4'-DDE	ND		ug/kg	1.80	0.416	1	A
4,4'-DDD	ND		ug/kg	1.80	0.642	1	A
4,4'-DDT	ND		ug/kg	3.37	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.425	1	A
Endosulfan II	ND		ug/kg	1.80	0.601	1	A
Endosulfan sulfate	ND		ug/kg	0.750	0.357	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.45	1	A
cis-Chlordane	ND		ug/kg	2.25	0.627	1	A
trans-Chlordane	ND		ug/kg	2.25	0.594	1	A
Chlordane	ND		ug/kg	15.0	5.96	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-12

Date Collected: 04/26/22 14:35

Client ID: SB-7

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14
Client ID: SB-9
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 12:25
Analyst: AR
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.622	1	A
Heptachlor	ND		ug/kg	0.820	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.577	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.922	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.717	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	ND		ug/kg	1.64	0.379	1	A
4,4'-DDD	ND		ug/kg	1.64	0.585	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.956	1	A
Toxaphene	ND		ug/kg	30.7	8.61	1	A
cis-Chlordane	ND		ug/kg	2.05	0.571	1	A
trans-Chlordane	ND		ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.7	5.43	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-14

Date Collected: 04/27/22 10:55

Client ID: SB-9

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 12:36
Analyst: AR
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.326	1	A
Lindane	ND		ug/kg	0.693	0.310	1	A
Alpha-BHC	ND		ug/kg	0.693	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.630	1	A
Heptachlor	ND		ug/kg	0.831	0.373	1	A
Aldrin	ND		ug/kg	1.66	0.585	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.935	1	A
Endrin	ND		ug/kg	0.693	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.727	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.520	1	A
4,4'-DDE	ND		ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.593	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.556	1	A
Endosulfan sulfate	ND		ug/kg	0.693	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.970	1	A
Toxaphene	ND		ug/kg	31.2	8.73	1	A
cis-Chlordane	ND		ug/kg	2.08	0.579	1	A
trans-Chlordane	ND		ug/kg	2.08	0.549	1	A
Chlordane	ND		ug/kg	13.8	5.51	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-19

Date Collected: 04/27/22 10:15

Client ID: SB-14

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	119		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	139		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 12:47
Analyst: AR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.685	0.306	1	A
Alpha-BHC	ND		ug/kg	0.685	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.623	1	A
Heptachlor	ND		ug/kg	0.822	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.579	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.925	1	A
Endrin	ND		ug/kg	0.685	0.281	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.719	1	A
Endrin ketone	ND		ug/kg	1.64	0.423	1	A
Dieldrin	ND		ug/kg	1.03	0.514	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.586	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.549	1	A
Endosulfan sulfate	ND		ug/kg	0.685	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.959	1	A
Toxaphene	ND		ug/kg	30.8	8.63	1	A
cis-Chlordane	ND		ug/kg	2.05	0.573	1	A
trans-Chlordane	ND		ug/kg	2.05	0.542	1	A
Chlordane	ND		ug/kg	13.7	5.44	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-26

Date Collected: 04/26/22 14:05

Client ID: SB-21 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 12:58
Analyst: AR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.320	1	A
Lindane	ND		ug/kg	0.682	0.305	1	A
Alpha-BHC	ND		ug/kg	0.682	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.620	1	A
Heptachlor	ND		ug/kg	0.818	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.920	1	A
Endrin	ND		ug/kg	0.682	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.716	1	A
Endrin ketone	ND		ug/kg	1.64	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	ND		ug/kg	1.64	0.378	1	A
4,4'-DDD	ND		ug/kg	1.64	0.584	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.547	1	A
Endosulfan sulfate	ND		ug/kg	0.682	0.324	1	A
Methoxychlor	ND		ug/kg	3.07	0.955	1	A
Toxaphene	ND		ug/kg	30.7	8.59	1	A
cis-Chlordane	ND		ug/kg	2.04	0.570	1	A
trans-Chlordane	ND		ug/kg	2.04	0.540	1	A
Chlordane	ND		ug/kg	13.6	5.42	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27

Date Collected: 04/26/22 14:05

Client ID: SB-21

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	117		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 13:09
Analyst: AR
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.687	0.307	1	A
Alpha-BHC	ND		ug/kg	0.687	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.625	1	A
Heptachlor	ND		ug/kg	0.824	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.580	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.927	1	A
Endrin	ND		ug/kg	0.687	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.721	1	A
Endrin ketone	ND		ug/kg	1.65	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.515	1	A
4,4'-DDE	ND		ug/kg	1.65	0.381	1	A
4,4'-DDD	ND		ug/kg	1.65	0.588	1	A
4,4'-DDT	ND		ug/kg	3.09	1.32	1	A
Endosulfan I	ND		ug/kg	1.65	0.389	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.687	0.327	1	A
Methoxychlor	ND		ug/kg	3.09	0.962	1	A
Toxaphene	ND		ug/kg	30.9	8.66	1	A
cis-Chlordane	ND		ug/kg	2.06	0.574	1	A
trans-Chlordane	ND		ug/kg	2.06	0.544	1	A
Chlordane	ND		ug/kg	13.7	5.46	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-31

Date Collected: 04/26/22 11:15

Client ID: SB-25 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32
Client ID: SB-25
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 13:20
Analyst: AR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.95	0.383	1	A
Lindane	ND		ug/kg	0.814	0.364	1	A
Alpha-BHC	ND		ug/kg	0.814	0.231	1	A
Beta-BHC	ND		ug/kg	1.95	0.741	1	A
Heptachlor	ND		ug/kg	0.977	0.438	1	A
Aldrin	ND		ug/kg	1.95	0.688	1	A
Heptachlor epoxide	ND		ug/kg	3.66	1.10	1	A
Endrin	ND		ug/kg	0.814	0.334	1	A
Endrin aldehyde	ND		ug/kg	2.44	0.855	1	A
Endrin ketone	ND		ug/kg	1.95	0.503	1	A
Dieldrin	ND		ug/kg	1.22	0.611	1	A
4,4'-DDE	ND		ug/kg	1.95	0.452	1	A
4,4'-DDD	ND		ug/kg	1.95	0.697	1	A
4,4'-DDT	ND		ug/kg	3.66	1.57	1	A
Endosulfan I	ND		ug/kg	1.95	0.462	1	A
Endosulfan II	ND		ug/kg	1.95	0.653	1	A
Endosulfan sulfate	ND		ug/kg	0.814	0.388	1	A
Methoxychlor	ND		ug/kg	3.66	1.14	1	A
Toxaphene	ND		ug/kg	36.6	10.2	1	A
cis-Chlordane	ND		ug/kg	2.44	0.681	1	A
trans-Chlordane	ND		ug/kg	2.44	0.645	1	A
Chlordane	ND		ug/kg	16.3	6.47	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-32

Date Collected: 04/26/22 11:15

Client ID: SB-25

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34
Client ID: SB-27 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 13:31
Analyst: AR
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.696	0.311	1	A
Alpha-BHC	ND		ug/kg	0.696	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.633	1	A
Heptachlor	ND		ug/kg	0.835	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.588	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.939	1	A
Endrin	ND		ug/kg	0.696	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.730	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.595	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.558	1	A
Endosulfan sulfate	ND		ug/kg	0.696	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.974	1	A
Toxaphene	ND		ug/kg	31.3	8.76	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A
trans-Chlordane	ND		ug/kg	2.09	0.551	1	A
Chlordane	ND		ug/kg	13.9	5.53	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34

Date Collected: 04/26/22 09:45

Client ID: SB-27 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	119		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35
Client ID: SB-27
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 13:42
Analyst: AR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.354	1	A
Lindane	ND		ug/kg	0.754	0.337	1	A
Alpha-BHC	ND		ug/kg	0.754	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.686	1	A
Heptachlor	ND		ug/kg	0.904	0.405	1	A
Aldrin	ND		ug/kg	1.81	0.637	1	A
Heptachlor epoxide	ND		ug/kg	3.39	1.02	1	A
Endrin	ND		ug/kg	0.754	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.791	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	ND		ug/kg	1.13	0.565	1	A
4,4'-DDE	ND		ug/kg	1.81	0.418	1	A
4,4'-DDD	ND		ug/kg	1.81	0.645	1	A
4,4'-DDT	ND		ug/kg	3.39	1.45	1	A
Endosulfan I	ND		ug/kg	1.81	0.427	1	A
Endosulfan II	ND		ug/kg	1.81	0.604	1	A
Endosulfan sulfate	ND		ug/kg	0.754	0.359	1	A
Methoxychlor	ND		ug/kg	3.39	1.05	1	A
Toxaphene	ND		ug/kg	33.9	9.49	1	A
cis-Chlordane	ND		ug/kg	2.26	0.630	1	A
trans-Chlordane	ND		ug/kg	2.26	0.597	1	A
Chlordane	ND		ug/kg	15.1	5.99	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-35

Date Collected: 04/26/22 09:45

Client ID: SB-27

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/22 13:53
Analyst: AR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/30/22 12:06
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.363	1	A
Lindane	ND		ug/kg	0.772	0.345	1	A
Alpha-BHC	ND		ug/kg	0.772	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.702	1	A
Heptachlor	ND		ug/kg	0.926	0.415	1	A
Aldrin	ND		ug/kg	1.85	0.652	1	A
Heptachlor epoxide	ND		ug/kg	3.47	1.04	1	A
Endrin	ND		ug/kg	0.772	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.810	1	A
Endrin ketone	ND		ug/kg	1.85	0.477	1	A
Dieldrin	ND		ug/kg	1.16	0.579	1	A
4,4'-DDE	ND		ug/kg	1.85	0.428	1	A
4,4'-DDD	ND		ug/kg	1.85	0.660	1	A
4,4'-DDT	ND		ug/kg	3.47	1.49	1	A
Endosulfan I	ND		ug/kg	1.85	0.437	1	A
Endosulfan II	ND		ug/kg	1.85	0.619	1	A
Endosulfan sulfate	ND		ug/kg	0.772	0.367	1	A
Methoxychlor	ND		ug/kg	3.47	1.08	1	A
Toxaphene	ND		ug/kg	34.7	9.72	1	A
cis-Chlordane	ND		ug/kg	2.31	0.645	1	A
trans-Chlordane	ND		ug/kg	2.31	0.611	1	A
Chlordane	ND		ug/kg	15.4	6.13	1	A

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-37

Date Collected: 04/28/22 09:35

Client ID: DUPE

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	123		30-150	B

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/04/22 11:46
 Analyst: AKM

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 12:06
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/02/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
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Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37
 Batch: WG1632833-1

Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.655	0.293	A
Alpha-BHC	ND		ug/kg	0.655	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.786	0.352	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.885	A
Endrin	ND		ug/kg	0.655	0.269	A
Endrin aldehyde	ND		ug/kg	1.96	0.688	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.983	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.561	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.655	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.917	A
Toxaphene	ND		ug/kg	29.5	8.26	A
cis-Chlordane	ND		ug/kg	1.96	0.548	A
trans-Chlordane	ND		ug/kg	1.96	0.519	A
Chlordane	ND		ug/kg	13.1	5.21	A



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/04/22 11:46
 Analyst: AKM

Extraction Method: EPA 3546
 Extraction Date: 04/30/22 12:06
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/02/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632833-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632833-2 WG1632833-3									
Delta-BHC	64		64		30-150	0		30	A
Lindane	67		65		30-150	3		30	A
Alpha-BHC	72		69		30-150	4		30	A
Beta-BHC	63		63		30-150	0		30	A
Heptachlor	66		65		30-150	2		30	A
Aldrin	64		63		30-150	2		30	A
Heptachlor epoxide	53		50		30-150	6		30	A
Endrin	64		65		30-150	2		30	A
Endrin aldehyde	45		45		30-150	0		30	A
Endrin ketone	56		58		30-150	4		30	A
Dieldrin	66		68		30-150	3		30	A
4,4'-DDE	60		62		30-150	3		30	A
4,4'-DDD	65		68		30-150	5		30	A
4,4'-DDT	60		62		30-150	3		30	A
Endosulfan I	60		60		30-150	0		30	A
Endosulfan II	61		63		30-150	3		30	A
Endosulfan sulfate	46		44		30-150	4		30	A
Methoxychlor	60		65		30-150	8		30	A
cis-Chlordane	60		63		30-150	5		30	A
trans-Chlordane	71		72		30-150	1		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1632833-2 WG1632833-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		62		30-150	A
Decachlorobiphenyl	69		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		64		30-150	B
Decachlorobiphenyl	61		65		30-150	B

METALS

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-02

Date Collected: 04/28/22 11:25

Client ID: SB-2

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2000		mg/kg	100	16.	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Arsenic, Total	1.6		mg/kg	0.53	0.07	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Barium, Total	16		mg/kg	3.2	0.22	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Beryllium, Total	0.12	J	mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Cadmium, Total	0.04	J	mg/kg	0.21	0.03	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Calcium, Total	37000		mg/kg	530	64.	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Chromium, Total	4.3		mg/kg	2.1	0.49	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Cobalt, Total	2.2		mg/kg	0.53	0.06	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Copper, Total	4.3		mg/kg	2.1	0.20	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Iron, Total	6400		mg/kg	210	22.	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Lead, Total	2.7		mg/kg	0.63	0.15	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Magnesium, Total	12000		mg/kg	100	13.	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Manganese, Total	200		mg/kg	2.1	0.47	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.073	0.048	1	05/12/22 20:47	05/13/22 09:49	EPA 7471B	1,7471B	DMB
Nickel, Total	4.7		mg/kg	1.0	0.28	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Potassium, Total	230		mg/kg	100	17.	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.1	0.80	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.53	0.05	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Sodium, Total	72	J	mg/kg	160	12.	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Thallium, Total	0.18	J	mg/kg	0.42	0.05	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Vanadium, Total	7.8		mg/kg	1.0	0.40	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV
Zinc, Total	12		mg/kg	10	2.7	10	05/12/22 20:00	05/13/22 09:51	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-03

Date Collected: 04/28/22 10:20

Client ID: SB-3 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2400		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Arsenic, Total	1.4		mg/kg	0.54	0.07	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Barium, Total	21		mg/kg	3.2	0.23	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Beryllium, Total	0.13	J	mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Cadmium, Total	0.03	J	mg/kg	0.21	0.03	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Calcium, Total	36000		mg/kg	540	65.	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Chromium, Total	4.5		mg/kg	2.1	0.50	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Cobalt, Total	2.2		mg/kg	0.54	0.06	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Copper, Total	4.5		mg/kg	2.1	0.21	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Iron, Total	6900		mg/kg	210	22.	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Lead, Total	2.8		mg/kg	0.64	0.16	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Magnesium, Total	12000		mg/kg	110	13.	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Manganese, Total	220		mg/kg	2.1	0.48	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.077	0.050	1	05/12/22 20:47	05/13/22 10:08	EPA 7471B	1,7471B	DMB
Nickel, Total	4.6		mg/kg	1.1	0.29	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Potassium, Total	380		mg/kg	110	17.	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.1	0.81	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.54	0.05	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Sodium, Total	60	J	mg/kg	160	12.	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Thallium, Total	0.13	J	mg/kg	0.43	0.06	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Vanadium, Total	8.1		mg/kg	1.1	0.41	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV
Zinc, Total	11		mg/kg	11	2.8	10	05/12/22 20:00	05/13/22 09:56	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-04

Date Collected: 04/28/22 10:20

Client ID: SB-3

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2400		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.6	0.14	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Arsenic, Total	1.0		mg/kg	0.51	0.07	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Barium, Total	22		mg/kg	3.1	0.22	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Beryllium, Total	0.12	J	mg/kg	0.31	0.09	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.20	0.03	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Calcium, Total	32000		mg/kg	510	62.	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Chromium, Total	6.0		mg/kg	2.0	0.48	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Cobalt, Total	2.4		mg/kg	0.51	0.05	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Copper, Total	3.6		mg/kg	2.0	0.20	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Iron, Total	6500		mg/kg	200	21.	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Lead, Total	2.4		mg/kg	0.61	0.15	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Magnesium, Total	11000		mg/kg	100	12.	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Manganese, Total	200		mg/kg	2.0	0.45	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.075	0.049	1	05/12/22 20:47	05/13/22 10:12	EPA 7471B	1,7471B	DMB
Nickel, Total	5.1		mg/kg	1.0	0.27	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Potassium, Total	440		mg/kg	100	16.	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.0	0.77	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.51	0.05	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Sodium, Total	58	J	mg/kg	150	12.	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Thallium, Total	0.10	J	mg/kg	0.41	0.05	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Vanadium, Total	7.6		mg/kg	1.0	0.39	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV
Zinc, Total	9.6	J	mg/kg	10	2.6	10	05/12/22 20:00	05/13/22 10:01	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-05

Date Collected: 04/28/22 09:35

Client ID: SB-4 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1900		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.15	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Arsenic, Total	1.0		mg/kg	0.54	0.07	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Barium, Total	12		mg/kg	3.3	0.23	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Beryllium, Total	0.10	J	mg/kg	0.33	0.10	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Cadmium, Total	0.08	J	mg/kg	0.22	0.03	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Calcium, Total	2700		mg/kg	540	66.	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Chromium, Total	3.7		mg/kg	2.2	0.51	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Cobalt, Total	1.0		mg/kg	0.54	0.06	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Copper, Total	3.1		mg/kg	2.2	0.21	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Iron, Total	4600		mg/kg	220	22.	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Lead, Total	7.2		mg/kg	0.65	0.16	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Magnesium, Total	1100		mg/kg	110	13.	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Manganese, Total	92		mg/kg	2.2	0.48	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.071	0.046	1	05/12/22 20:47	05/13/22 10:15	EPA 7471B	1,7471B	DMB
Nickel, Total	2.4		mg/kg	1.1	0.29	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Potassium, Total	190		mg/kg	110	17.	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.2	0.82	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.54	0.05	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	160	13.	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Thallium, Total	0.08	J	mg/kg	0.44	0.06	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Vanadium, Total	6.2		mg/kg	1.1	0.41	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV
Zinc, Total	13		mg/kg	11	2.8	10	05/12/22 20:00	05/13/22 10:06	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-06

Date Collected: 04/28/22 09:35

Client ID: SB-4

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3200		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Arsenic, Total	1.7		mg/kg	0.54	0.07	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Barium, Total	29		mg/kg	3.2	0.23	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Beryllium, Total	0.14	J	mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Cadmium, Total	0.04	J	mg/kg	0.21	0.03	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Calcium, Total	59000		mg/kg	540	65.	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Chromium, Total	7.2		mg/kg	2.1	0.50	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Cobalt, Total	3.6		mg/kg	0.54	0.06	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Copper, Total	6.9		mg/kg	2.1	0.21	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Iron, Total	9300		mg/kg	210	22.	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Lead, Total	3.7		mg/kg	0.64	0.16	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Magnesium, Total	16000		mg/kg	110	13.	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Manganese, Total	280		mg/kg	2.1	0.48	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.078	0.051	1	05/12/22 20:47	05/13/22 10:18	EPA 7471B	1,7471B	DMB
Nickel, Total	8.7		mg/kg	1.1	0.29	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Potassium, Total	600		mg/kg	110	17.	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Selenium, Total	1.0	J	mg/kg	2.1	0.81	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.54	0.05	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Sodium, Total	75	J	mg/kg	160	12.	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Thallium, Total	0.13	J	mg/kg	0.43	0.06	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Vanadium, Total	10		mg/kg	1.1	0.41	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV
Zinc, Total	17		mg/kg	11	2.8	10	05/12/22 20:00	05/13/22 10:28	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07

Date Collected: 04/27/22 11:55

Client ID: SB-5 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2800		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Arsenic, Total	1.4		mg/kg	0.54	0.07	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Barium, Total	15		mg/kg	3.2	0.23	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Beryllium, Total	0.12	J	mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Cadmium, Total	0.10	J	mg/kg	0.22	0.03	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Calcium, Total	1300		mg/kg	540	66.	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Chromium, Total	4.1		mg/kg	2.2	0.50	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Cobalt, Total	1.1		mg/kg	0.54	0.06	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Copper, Total	2.3		mg/kg	2.2	0.21	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Iron, Total	6000		mg/kg	220	22.	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Lead, Total	10		mg/kg	0.65	0.16	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Magnesium, Total	470		mg/kg	110	13.	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Manganese, Total	97		mg/kg	2.2	0.48	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.074	0.048	1	05/12/22 20:47	05/13/22 10:22	EPA 7471B	1,7471B	DMB
Nickel, Total	3.5		mg/kg	1.1	0.29	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Potassium, Total	83	J	mg/kg	110	17.	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.2	0.82	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.54	0.05	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	160	13.	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Thallium, Total	0.09	J	mg/kg	0.43	0.06	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Vanadium, Total	8.7		mg/kg	1.1	0.41	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV
Zinc, Total	13		mg/kg	11	2.8	10	05/12/22 20:00	05/13/22 10:32	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-08

Date Collected: 04/27/22 11:55

Client ID: SB-5

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1800		mg/kg	110	17.	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.8	0.15	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Arsenic, Total	1.0		mg/kg	0.57	0.08	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Barium, Total	11		mg/kg	3.4	0.24	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Beryllium, Total	0.11	J	mg/kg	0.34	0.10	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.23	0.03	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Calcium, Total	460	J	mg/kg	570	69.	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Chromium, Total	3.1		mg/kg	2.3	0.53	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Cobalt, Total	1.4		mg/kg	0.57	0.06	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Copper, Total	1.7	J	mg/kg	2.3	0.22	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Iron, Total	5000		mg/kg	230	23.	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Lead, Total	1.2		mg/kg	0.68	0.16	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Magnesium, Total	530		mg/kg	110	14.	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Manganese, Total	99		mg/kg	2.3	0.50	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.081	0.053	1	05/12/22 20:47	05/13/22 10:25	EPA 7471B	1,7471B	DMB
Nickel, Total	2.1		mg/kg	1.1	0.30	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Potassium, Total	100	J	mg/kg	110	18.	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.3	0.86	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.57	0.06	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	170	13.	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Thallium, Total	0.06	J	mg/kg	0.45	0.06	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Vanadium, Total	5.8		mg/kg	1.1	0.43	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV
Zinc, Total	5.0	J	mg/kg	11	3.0	10	05/12/22 20:00	05/13/22 10:37	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-09

Date Collected: 04/27/22 12:45

Client ID: SB-6 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2400		mg/kg	100	16.	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Arsenic, Total	1.2		mg/kg	0.53	0.07	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Barium, Total	12		mg/kg	3.2	0.22	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Beryllium, Total	0.14	J	mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Cadmium, Total	0.10	J	mg/kg	0.21	0.03	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Calcium, Total	3000		mg/kg	530	64.	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Chromium, Total	4.6		mg/kg	2.1	0.49	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Cobalt, Total	1.6		mg/kg	0.53	0.06	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Copper, Total	2.9		mg/kg	2.1	0.20	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Iron, Total	5700		mg/kg	210	22.	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Lead, Total	7.3		mg/kg	0.63	0.15	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Magnesium, Total	980		mg/kg	100	13.	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Manganese, Total	120		mg/kg	2.1	0.47	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.072	0.047	1	05/12/22 20:47	05/13/22 10:28	EPA 7471B	1,7471B	DMB
Nickel, Total	3.3		mg/kg	1.0	0.28	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Potassium, Total	130		mg/kg	100	17.	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.1	0.80	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.53	0.05	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	160	12.	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Thallium, Total	0.06	J	mg/kg	0.42	0.05	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Vanadium, Total	7.4		mg/kg	1.0	0.40	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV
Zinc, Total	11		mg/kg	10	2.7	10	05/12/22 20:00	05/13/22 10:42	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-10

Date Collected: 04/27/22 12:45

Client ID: SB-6

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2600		mg/kg	120	17.	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.8	0.16	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Arsenic, Total	3.3		mg/kg	0.58	0.08	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Barium, Total	30		mg/kg	3.5	0.24	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Beryllium, Total	0.14	J	mg/kg	0.35	0.10	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Cadmium, Total	0.04	J	mg/kg	0.23	0.03	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Calcium, Total	48000		mg/kg	580	71.	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Chromium, Total	6.3		mg/kg	2.3	0.54	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Cobalt, Total	3.0		mg/kg	0.58	0.06	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Copper, Total	6.3		mg/kg	2.3	0.22	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Iron, Total	8700		mg/kg	230	24.	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Lead, Total	3.2		mg/kg	0.70	0.17	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Magnesium, Total	12000		mg/kg	120	14.	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Manganese, Total	310		mg/kg	2.3	0.52	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.080	0.052	1	05/12/22 20:47	05/13/22 10:32	EPA 7471B	1,7471B	DMB
Nickel, Total	6.5		mg/kg	1.2	0.31	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Potassium, Total	440		mg/kg	120	18.	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.3	0.88	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.58	0.06	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Sodium, Total	67	J	mg/kg	170	14.	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Thallium, Total	0.07	J	mg/kg	0.46	0.06	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Vanadium, Total	9.1		mg/kg	1.2	0.44	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV
Zinc, Total	17		mg/kg	12	3.0	10	05/12/22 20:00	05/13/22 10:47	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-11

Date Collected: 04/26/22 14:35

Client ID: SB-7 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3300		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.6	0.14	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Arsenic, Total	0.46	J	mg/kg	0.50	0.07	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Barium, Total	11		mg/kg	3.0	0.21	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Beryllium, Total	0.12	J	mg/kg	0.30	0.09	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.20	0.03	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Calcium, Total	69	J	mg/kg	500	62.	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Chromium, Total	2.4		mg/kg	2.0	0.47	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Cobalt, Total	1.0		mg/kg	0.50	0.05	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Copper, Total	0.78	J	mg/kg	2.0	0.20	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Iron, Total	4200		mg/kg	200	21.	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Lead, Total	1.1		mg/kg	0.61	0.15	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Magnesium, Total	290		mg/kg	100	12.	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Manganese, Total	89		mg/kg	2.0	0.45	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.074	0.048	1	05/12/22 20:47	05/13/22 10:35	EPA 7471B	1,7471B	DMB
Nickel, Total	1.8		mg/kg	1.0	0.27	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Potassium, Total	64	J	mg/kg	100	16.	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.0	0.76	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.50	0.05	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	150	12.	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.40	0.05	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Vanadium, Total	4.9		mg/kg	1.0	0.38	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV
Zinc, Total	3.9	J	mg/kg	10	2.6	10	05/12/22 20:00	05/13/22 10:51	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-12

Date Collected: 04/26/22 14:35

Client ID: SB-7

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1600		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.8	0.15	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Arsenic, Total	0.48	J	mg/kg	0.56	0.07	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Barium, Total	10		mg/kg	3.3	0.24	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Beryllium, Total	0.11	J	mg/kg	0.33	0.10	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.22	0.03	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Calcium, Total	160	J	mg/kg	560	68.	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Chromium, Total	2.5		mg/kg	2.2	0.52	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Cobalt, Total	0.87		mg/kg	0.56	0.06	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Copper, Total	1.1	J	mg/kg	2.2	0.22	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Iron, Total	3900		mg/kg	220	23.	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Lead, Total	0.94		mg/kg	0.67	0.16	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Magnesium, Total	570		mg/kg	110	14.	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Manganese, Total	16		mg/kg	2.2	0.50	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.081	0.053	1	05/12/22 20:47	05/13/22 10:38	EPA 7471B	1,7471B	DMB
Nickel, Total	1.5		mg/kg	1.1	0.30	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Potassium, Total	91	J	mg/kg	110	18.	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.2	0.84	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.56	0.05	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	170	13.	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.45	0.06	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Vanadium, Total	4.2		mg/kg	1.1	0.42	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV
Zinc, Total	3.0	J	mg/kg	11	2.9	10	05/12/22 20:00	05/13/22 10:56	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-14

Date Collected: 04/27/22 10:55

Client ID: SB-9

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1000		mg/kg	100	16.	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Arsenic, Total	0.34	J	mg/kg	0.52	0.07	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Barium, Total	6.5		mg/kg	3.2	0.22	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Beryllium, Total	ND		mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.21	0.03	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Calcium, Total	390	J	mg/kg	520	64.	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Chromium, Total	1.4	J	mg/kg	2.1	0.49	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Cobalt, Total	0.79		mg/kg	0.52	0.06	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Copper, Total	1.1	J	mg/kg	2.1	0.20	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Iron, Total	2800		mg/kg	210	22.	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Lead, Total	0.50	J	mg/kg	0.63	0.15	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Magnesium, Total	390		mg/kg	100	13.	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Manganese, Total	49		mg/kg	2.1	0.47	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.071	0.047	1	05/12/22 20:47	05/13/22 10:48	EPA 7471B	1,7471B	DMB
Nickel, Total	1.8		mg/kg	1.0	0.28	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Potassium, Total	78	J	mg/kg	100	17.	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.1	0.79	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.52	0.05	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	160	12.	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.42	0.05	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Vanadium, Total	3.0		mg/kg	1.0	0.40	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV
Zinc, Total	3.5	J	mg/kg	10	2.7	10	05/12/22 20:00	05/13/22 11:01	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-19

Date Collected: 04/27/22 10:15

Client ID: SB-14

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1200		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.6	0.14	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Arsenic, Total	0.68		mg/kg	0.51	0.07	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Barium, Total	4.2		mg/kg	3.1	0.22	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Beryllium, Total	0.10	J	mg/kg	0.31	0.09	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.20	0.03	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Calcium, Total	260	J	mg/kg	510	62.	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Chromium, Total	2.1		mg/kg	2.0	0.48	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Cobalt, Total	0.89		mg/kg	0.51	0.05	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Copper, Total	1.3	J	mg/kg	2.0	0.20	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Iron, Total	5600		mg/kg	200	21.	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Lead, Total	0.68		mg/kg	0.61	0.15	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Magnesium, Total	450		mg/kg	100	12.	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Manganese, Total	28		mg/kg	2.0	0.45	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.076	0.050	1	05/12/22 20:47	05/13/22 10:51	EPA 7471B	1,7471B	DMB
Nickel, Total	1.6		mg/kg	1.0	0.27	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Potassium, Total	78	J	mg/kg	100	16.	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.0	0.77	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.51	0.05	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	150	12.	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.41	0.05	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Vanadium, Total	5.5		mg/kg	1.0	0.39	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV
Zinc, Total	3.5	J	mg/kg	10	2.6	10	05/12/22 20:00	05/13/22 11:06	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-26

Date Collected: 04/26/22 14:05

Client ID: SB-21 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2700		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.6	0.13	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Arsenic, Total	0.78		mg/kg	0.50	0.07	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Barium, Total	9.1		mg/kg	3.0	0.21	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Beryllium, Total	0.11	J	mg/kg	0.30	0.09	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Cadmium, Total	0.04	J	mg/kg	0.20	0.03	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Calcium, Total	400	J	mg/kg	500	61.	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Chromium, Total	2.8		mg/kg	2.0	0.47	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Cobalt, Total	1.3		mg/kg	0.50	0.05	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Copper, Total	1.2	J	mg/kg	2.0	0.19	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Iron, Total	5200		mg/kg	200	20.	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Lead, Total	2.5		mg/kg	0.60	0.14	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Magnesium, Total	420		mg/kg	100	12.	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Manganese, Total	110		mg/kg	2.0	0.44	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.069	0.045	1	05/12/22 20:47	05/13/22 10:55	EPA 7471B	1,7471B	DMB
Nickel, Total	1.9		mg/kg	1.0	0.27	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Potassium, Total	66	J	mg/kg	100	16.	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.0	0.75	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.50	0.05	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	150	12.	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.40	0.05	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Vanadium, Total	6.0		mg/kg	1.0	0.38	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV
Zinc, Total	8.6	J	mg/kg	10	2.6	10	05/12/22 20:00	05/13/22 11:11	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-27

Date Collected: 04/26/22 14:05

Client ID: SB-21

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2300		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Arsenic, Total	0.87		mg/kg	0.52	0.07	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Barium, Total	10		mg/kg	3.1	0.22	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Beryllium, Total	0.11	J	mg/kg	0.31	0.09	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.21	0.03	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Calcium, Total	260	J	mg/kg	520	63.	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Chromium, Total	2.4		mg/kg	2.1	0.49	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Cobalt, Total	1.2		mg/kg	0.52	0.06	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Copper, Total	2.8		mg/kg	2.1	0.20	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Iron, Total	4600		mg/kg	210	21.	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Lead, Total	1.8		mg/kg	0.62	0.15	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Magnesium, Total	680		mg/kg	100	13.	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Manganese, Total	140		mg/kg	2.1	0.46	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.078	0.051	1	05/12/22 20:47	05/13/22 10:58	EPA 7471B	1,7471B	DMB
Nickel, Total	2.8		mg/kg	1.0	0.28	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Potassium, Total	110		mg/kg	100	16.	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.1	0.79	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.52	0.05	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	160	12.	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Thallium, Total	0.08	J	mg/kg	0.42	0.05	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Vanadium, Total	4.4		mg/kg	1.0	0.39	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV
Zinc, Total	7.2	J	mg/kg	10	2.7	10	05/12/22 20:00	05/13/22 11:28	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-31

Date Collected: 04/26/22 11:15

Client ID: SB-25 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2900		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.6	0.14	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Arsenic, Total	0.64		mg/kg	0.51	0.07	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Barium, Total	6.9		mg/kg	3.1	0.22	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Beryllium, Total	0.09	J	mg/kg	0.31	0.09	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.20	0.03	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Calcium, Total	300	J	mg/kg	510	62.	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Chromium, Total	2.8		mg/kg	2.0	0.48	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Cobalt, Total	1.1		mg/kg	0.51	0.06	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Copper, Total	0.88	J	mg/kg	2.0	0.20	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Iron, Total	4000		mg/kg	200	21.	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Lead, Total	1.0		mg/kg	0.62	0.15	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Magnesium, Total	490		mg/kg	100	13.	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Manganese, Total	82		mg/kg	2.0	0.46	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.076	0.049	1	05/12/22 20:47	05/13/22 11:01	EPA 7471B	1,7471B	DMB
Nickel, Total	2.9		mg/kg	1.0	0.27	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Potassium, Total	62	J	mg/kg	100	16.	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.0	0.78	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.51	0.05	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	150	12.	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Thallium, Total	0.05	J	mg/kg	0.41	0.05	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Vanadium, Total	5.0		mg/kg	1.0	0.39	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV
Zinc, Total	6.2	J	mg/kg	10	2.7	10	05/12/22 20:00	05/13/22 11:33	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-32

Date Collected: 04/26/22 11:15

Client ID: SB-25

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2600		mg/kg	120	17.	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.9	0.16	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Arsenic, Total	0.53	J	mg/kg	0.59	0.08	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Barium, Total	9.8		mg/kg	3.5	0.25	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Beryllium, Total	0.14	J	mg/kg	0.35	0.10	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.24	0.03	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Calcium, Total	190	J	mg/kg	590	72.	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Chromium, Total	3.3		mg/kg	2.4	0.55	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Cobalt, Total	0.96		mg/kg	0.59	0.06	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Copper, Total	0.89	J	mg/kg	2.4	0.23	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Iron, Total	4100		mg/kg	240	24.	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Lead, Total	0.87		mg/kg	0.70	0.17	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Magnesium, Total	430		mg/kg	120	14.	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Manganese, Total	72		mg/kg	2.4	0.52	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.088	0.057	1	05/12/22 20:47	05/13/22 11:05	EPA 7471B	1,7471B	DMB
Nickel, Total	2.0		mg/kg	1.2	0.31	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Potassium, Total	66	J	mg/kg	120	19.	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.4	0.89	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.59	0.06	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	180	14.	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.47	0.06	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Vanadium, Total	5.2		mg/kg	1.2	0.44	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV
Zinc, Total	4.2	J	mg/kg	12	3.0	10	05/12/22 20:00	05/13/22 11:38	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-34

Date Collected: 04/26/22 09:45

Client ID: SB-27 (0-2')

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2000		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.7	0.14	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Arsenic, Total	0.62		mg/kg	0.54	0.07	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Barium, Total	6.9		mg/kg	3.2	0.23	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Beryllium, Total	ND		mg/kg	0.32	0.09	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.22	0.03	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Calcium, Total	220	J	mg/kg	540	65.	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Chromium, Total	5.7		mg/kg	2.2	0.50	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Cobalt, Total	1.5		mg/kg	0.54	0.06	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Copper, Total	1.8	J	mg/kg	2.2	0.21	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Iron, Total	4300		mg/kg	220	22.	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Lead, Total	1.1		mg/kg	0.65	0.16	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Magnesium, Total	530		mg/kg	110	13.	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Manganese, Total	62		mg/kg	2.2	0.48	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.070	0.045	1	05/12/22 20:47	05/13/22 11:08	EPA 7471B	1,7471B	DMB
Nickel, Total	3.0		mg/kg	1.1	0.29	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Potassium, Total	76	J	mg/kg	110	17.	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.2	0.81	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.54	0.05	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Sodium, Total	16	J	mg/kg	160	13.	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.43	0.06	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Vanadium, Total	4.5		mg/kg	1.1	0.41	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV
Zinc, Total	8.8	J	mg/kg	11	2.8	10	05/12/22 20:00	05/13/22 11:43	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-35

Date Collected: 04/26/22 09:45

Client ID: SB-27

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2400		mg/kg	110	17.	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.8	0.16	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Arsenic, Total	0.79		mg/kg	0.57	0.08	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Barium, Total	7.9		mg/kg	3.4	0.24	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Beryllium, Total	0.13	J	mg/kg	0.34	0.10	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.23	0.03	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Calcium, Total	260	J	mg/kg	570	70.	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Chromium, Total	3.5		mg/kg	2.3	0.54	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Cobalt, Total	1.6		mg/kg	0.57	0.06	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Copper, Total	1.6	J	mg/kg	2.3	0.22	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Iron, Total	4900		mg/kg	230	24.	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Lead, Total	1.2		mg/kg	0.69	0.17	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Magnesium, Total	890		mg/kg	110	14.	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Manganese, Total	74		mg/kg	2.3	0.51	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.077	0.050	1	05/12/22 20:47	05/13/22 11:11	EPA 7471B	1,7471B	DMB
Nickel, Total	3.4		mg/kg	1.1	0.31	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Potassium, Total	150		mg/kg	110	18.	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.3	0.87	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.57	0.06	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Sodium, Total	ND		mg/kg	170	13.	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.46	0.06	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Vanadium, Total	5.6		mg/kg	1.1	0.44	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV
Zinc, Total	5.8	J	mg/kg	11	3.0	10	05/12/22 20:00	05/13/22 11:48	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**SAMPLE RESULTS**

Lab ID: L2222691-37

Date Collected: 04/28/22 09:35

Client ID: DUPE

Date Received: 04/29/22

Sample Location: INDUSTRIAL BLVD.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2300		mg/kg	110	16.	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Antimony, Total	ND		mg/kg	1.8	0.15	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Arsenic, Total	1.3		mg/kg	0.55	0.07	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Barium, Total	16		mg/kg	3.3	0.23	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Beryllium, Total	0.13	J	mg/kg	0.33	0.10	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Cadmium, Total	0.03	J	mg/kg	0.22	0.03	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Calcium, Total	12000		mg/kg	550	67.	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Chromium, Total	4.4		mg/kg	2.2	0.52	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Cobalt, Total	1.8		mg/kg	0.55	0.06	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Copper, Total	4.2		mg/kg	2.2	0.21	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Iron, Total	6100		mg/kg	220	23.	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Lead, Total	2.2		mg/kg	0.66	0.16	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Magnesium, Total	3900		mg/kg	110	14.	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Manganese, Total	140		mg/kg	2.2	0.49	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.077	0.050	1	05/12/22 20:47	05/13/22 11:15	EPA 7471B	1,7471B	DMB
Nickel, Total	3.8		mg/kg	1.1	0.29	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Potassium, Total	240		mg/kg	110	18.	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Selenium, Total	ND		mg/kg	2.2	0.83	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.55	0.05	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Sodium, Total	18	J	mg/kg	160	13.	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Thallium, Total	ND		mg/kg	0.44	0.06	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Vanadium, Total	7.1		mg/kg	1.1	0.42	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV
Zinc, Total	9.4	J	mg/kg	11	2.9	10	05/12/22 20:00	05/13/22 11:52	EPA 3050B	1,6020B	SV



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1637749-1										
Aluminum, Total	ND		mg/kg	100	15.	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Antimony, Total	ND		mg/kg	1.6	0.14	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Arsenic, Total	ND		mg/kg	0.50	0.07	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Barium, Total	ND		mg/kg	3.0	0.21	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Beryllium, Total	ND		mg/kg	0.30	0.09	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Cadmium, Total	ND		mg/kg	0.20	0.03	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Calcium, Total	ND		mg/kg	500	61.	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Chromium, Total	ND		mg/kg	2.0	0.47	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Cobalt, Total	ND		mg/kg	0.50	0.05	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Copper, Total	ND		mg/kg	2.0	0.19	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Iron, Total	ND		mg/kg	200	21.	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Lead, Total	ND		mg/kg	0.60	0.15	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Magnesium, Total	ND		mg/kg	100	12.	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Manganese, Total	ND		mg/kg	2.0	0.44	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Nickel, Total	ND		mg/kg	1.0	0.27	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Potassium, Total	ND		mg/kg	100	16.	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Selenium, Total	ND		mg/kg	2.0	0.76	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Silver, Total	ND		mg/kg	0.50	0.05	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Sodium, Total	ND		mg/kg	150	12.	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Thallium, Total	0.08	J	mg/kg	0.40	0.05	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Vanadium, Total	ND		mg/kg	1.0	0.38	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV
Zinc, Total	ND		mg/kg	10	2.6	10	05/12/22 20:00	05/13/22 09:27	1,6020B	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1637753-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/12/22 20:47	05/13/22 09:42	1,7471B	DMB



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1637749-2 SRM Lot Number: D113-540								
Aluminum, Total	61		-		51-149	-		20
Antimony, Total	147		-		20-250	-		20
Arsenic, Total	100		-		70-130	-		20
Barium, Total	96		-		75-125	-		20
Beryllium, Total	86		-		75-125	-		20
Cadmium, Total	97		-		75-125	-		20
Calcium, Total	97		-		73-128	-		20
Chromium, Total	90		-		70-130	-		20
Cobalt, Total	96		-		75-125	-		20
Copper, Total	91		-		75-125	-		20
Iron, Total	90		-		36-164	-		20
Lead, Total	98		-		72-128	-		20
Magnesium, Total	85		-		63-138	-		20
Manganese, Total	96		-		77-123	-		20
Nickel, Total	96		-		70-130	-		20
Potassium, Total	76		-		59-141	-		20
Selenium, Total	99		-		66-134	-		20
Silver, Total	104		-		70-131	-		20
Sodium, Total	93		-		35-164	-		20
Thallium, Total	90		-		70-130	-		20
Vanadium, Total	91		-		74-126	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1637749-2 SRM Lot Number: D113-540					
Zinc, Total	95	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 Batch: WG1637753-2 SRM Lot Number: D113-540					
Mercury, Total	84	-	60-140	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 QC Batch ID: WG1637749-3 QC Sample: L2222691-02 Client ID: SB-2												
Aluminum, Total	2000	1780	2200	11	Q	-	-		75-125	-		20
Antimony, Total	ND	44.6	44	99		-	-		75-125	-		20
Arsenic, Total	1.6	10.7	12	97		-	-		75-125	-		20
Barium, Total	16	178	190	98		-	-		75-125	-		20
Beryllium, Total	0.12J	4.46	4.0	90		-	-		75-125	-		20
Cadmium, Total	0.04J	4.73	4.8	102		-	-		75-125	-		20
Calcium, Total	37000	892	34000	0	Q	-	-		75-125	-		20
Chromium, Total	4.3	17.8	22	99		-	-		75-125	-		20
Cobalt, Total	2.2	44.6	43	91		-	-		75-125	-		20
Copper, Total	4.3	22.3	24	88		-	-		75-125	-		20
Iron, Total	6400	892	5800	0	Q	-	-		75-125	-		20
Lead, Total	2.7	47.3	50	100		-	-		75-125	-		20
Magnesium, Total	12000	892	11000	0	Q	-	-		75-125	-		20
Manganese, Total	200	44.6	220	45	Q	-	-		75-125	-		20
Nickel, Total	4.7	44.6	46	93		-	-		75-125	-		20
Potassium, Total	230	892	1200	109		-	-		75-125	-		20
Selenium, Total	ND	10.7	12	112		-	-		75-125	-		20
Silver, Total	ND	26.8	31	116		-	-		75-125	-		20
Sodium, Total	72J	892	1000	112		-	-		75-125	-		20
Thallium, Total	0.18J	10.7	11	103		-	-		75-125	-		20
Vanadium, Total	7.8	44.6	52	99		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 SB-2									
Zinc, Total	12	44.6	53	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 SB-2									
Mercury, Total	ND	0.15	0.142	95	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 QC Batch ID: WG1637749-4 QC Sample: L2222691-02 Client ID: SB-2						
Aluminum, Total	2000	1900	mg/kg	5		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.6	3.0	mg/kg	61	Q	20
Barium, Total	16	14	mg/kg	13		20
Beryllium, Total	0.12J	0.12J	mg/kg	NC		20
Cadmium, Total	0.04J	0.04J	mg/kg	NC		20
Calcium, Total	37000	53000	mg/kg	36	Q	20
Chromium, Total	4.3	4.6	mg/kg	7		20
Cobalt, Total	2.2	2.4	mg/kg	9		20
Copper, Total	4.3	4.3	mg/kg	0		20
Iron, Total	6400	7000	mg/kg	9		20
Lead, Total	2.7	3.5	mg/kg	26	Q	20
Magnesium, Total	12000	18000	mg/kg	40	Q	20
Manganese, Total	200	290	mg/kg	37	Q	20
Nickel, Total	4.7	4.6	mg/kg	2		20
Potassium, Total	230	240	mg/kg	4		20
Selenium, Total	ND	0.88J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	72J	59J	mg/kg	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 QC Batch ID: WG1637749-4 QC Sample: L2222691-02 Client ID: SB-2					
Thallium, Total	0.18J	0.39J	mg/kg	NC	20
Vanadium, Total	7.8	8.1	mg/kg	4	20
Zinc, Total	12	12	mg/kg	0	20
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 QC Batch ID: WG1637753-4 QC Sample: L2222691-02 Client ID: SB-2					
Mercury, Total	ND	ND	mg/kg	NC	20

Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Serial Dilution Analysis Batch Quality Control

Lab Number: L2222691

Report Date: 05/20/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-12,14,19,26-27,31-32,34-35,37 QC Batch ID: WG1637749-6 QC Sample: L2222691-02 Client ID: SB-2						
Calcium, Total	37000	38000	mg/kg	3		20
Iron, Total	6400	6600	mg/kg	3		20
Magnesium, Total	12000	12000	mg/kg	0		20
Manganese, Total	200	200	mg/kg	0		20

INORGANICS & MISCELLANEOUS

Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-01**Client ID:** SB-1**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/28/22 12:00**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-02
Client ID: SB-2
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 11:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/11/22 13:35	05/12/22 08:51	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-03
Client ID: SB-3 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/11/22 13:35	05/12/22 08:54	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-04
Client ID: SB-3
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 10:20
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/11/22 13:35	05/12/22 08:55	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-05
Client ID: SB-4 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/11/22 13:35	05/12/22 08:56	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-06
Client ID: SB-4
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/11/22 13:35	05/12/22 08:57	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-07
Client ID: SB-5 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/10/22 10:55	05/10/22 14:02	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-08
Client ID: SB-5
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	05/10/22 10:55	05/10/22 14:05	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-09
Client ID: SB-6 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/09/22 14:15	05/10/22 09:23	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-10
Client ID: SB-6
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 12:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	05/09/22 14:15	05/10/22 09:26	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-11
Client ID: SB-7 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/09/22 10:30	05/09/22 14:14	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-12
Client ID: SB-7
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/09/22 10:30	05/09/22 14:15	1,9010C/9012B	CS



Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-13**Client ID:** SB-8**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/27/22 09:40**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-14
Client ID: SB-9
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:55
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	05/10/22 10:55	05/10/22 14:06	1,9010C/9012B	CS



Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-15**Client ID:** SB-10**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/27/22 11:05**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-16
Client ID: SB-11
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-17**Client ID:** SB-12**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/26/22 15:35**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.5		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-18**Client ID:** SB-13**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/27/22 09:50**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.2		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-19
Client ID: SB-14
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	05/10/22 10:55	05/10/22 14:07	1,9010C/9012B	CS



Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-20**Client ID:** SB-15**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/27/22 11:15**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	04/30/22 10:42	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-21
Client ID: SB-16
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-22
Client ID: SB-17
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 10:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.4		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-23

Client ID: SB-18

Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/27/22 11:25

Date Received: 04/29/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-24
Client ID: SB-19
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-25
Client ID: SB-20
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 15:25
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-26
Client ID: SB-21 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	05/09/22 10:30	05/09/22 13:58	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-27
Client ID: SB-21
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 14:05
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.96	0.20	1	05/09/22 10:30	05/09/22 14:16	1,9010C/9012B	CS



Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-28

Client ID: SB-22

Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:50

Date Received: 04/29/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT

Project Number: 508215230

Lab Number: L2222691

Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-29

Client ID: SB-23

Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 13:30

Date Received: 04/29/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT**Project Number:** 508215230**Lab Number:** L2222691**Report Date:** 05/20/22**SAMPLE RESULTS****Lab ID:** L2222691-30**Client ID:** SB-24**Sample Location:** INDUSTRIAL BLVD.**Date Collected:** 04/26/22 12:25**Date Received:** 04/29/22**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-31
Client ID: SB-25 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	05/10/22 10:55	05/10/22 14:08	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-32
Client ID: SB-25
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:15
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	05/09/22 10:30	05/09/22 13:59	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-33
Client ID: SB-26
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 11:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-34
Client ID: SB-27 (0-2')
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/09/22 10:30	05/09/22 14:00	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-35
Client ID: SB-27
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 09:45
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	05/09/22 10:30	05/09/22 14:01	1,9010C/9012B	CS



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-36
Client ID: SB-28
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/26/22 12:00
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

SAMPLE RESULTS

Lab ID: L2222691-37
Client ID: DUPE
Sample Location: INDUSTRIAL BLVD.

Date Collected: 04/28/22 09:35
Date Received: 04/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	04/30/22 11:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/11/22 13:35	05/12/22 08:58	1,9010C/9012B	CS



Project Name: FORMER AIRPORT

Lab Number: L2222691

Project Number: 508215230

Report Date: 05/20/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 26,32,34-35 Batch: WG1636033-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	05/09/22 10:30	05/09/22 13:45	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 11-12,27 Batch: WG1636043-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	05/09/22 10:30	05/09/22 13:45	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 09-10 Batch: WG1636118-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	05/09/22 14:15	05/10/22 09:09	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 07-08,14,19,31 Batch: WG1636556-1										
Cyanide, Total	ND		mg/kg	0.99	0.21	1	05/10/22 10:55	05/10/22 13:58	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 02-06,37 Batch: WG1637117-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	05/11/22 13:35	05/12/22 08:41	1,9010C/9012B	CS



Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 26,32,34-35 Batch: WG1636033-2 WG1636033-3								
Cyanide, Total	58	Q	74	Q	80-120	7		35
General Chemistry - Westborough Lab Associated sample(s): 11-12,27 Batch: WG1636043-2 WG1636043-3								
Cyanide, Total	58	Q	74	Q	80-120	7		35
General Chemistry - Westborough Lab Associated sample(s): 09-10 Batch: WG1636118-2 WG1636118-3								
Cyanide, Total	76	Q	88		80-120	8		35
General Chemistry - Westborough Lab Associated sample(s): 07-08,14,19,31 Batch: WG1636556-2 WG1636556-3								
Cyanide, Total	74	Q	77	Q	80-120	4		35
General Chemistry - Westborough Lab Associated sample(s): 02-06,37 Batch: WG1637117-2 WG1637117-3								
Cyanide, Total	62	Q	100		80-120	16		35

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 26,32,34-35 QC Batch ID: WG1636033-4 WG1636033-5 QC Sample: L2221473-08 Client ID: MS Sample												
Cyanide, Total	ND	12	11	94		12	98		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 09-10 QC Batch ID: WG1636118-4 WG1636118-5 QC Sample: L2222691-09 Client ID: SB-6 (0-2')												
Cyanide, Total	ND	11	10	93		9.3	92		75-125	7		35
General Chemistry - Westborough Lab Associated sample(s): 07-08,14,19,31 QC Batch ID: WG1636556-4 WG1636556-5 QC Sample: L2222691-31 Client ID: SB-25 (0-2')												
Cyanide, Total	ND	10	11	100		11	110		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 02-06,37 QC Batch ID: WG1637117-4 WG1637117-5 QC Sample: L2222691-02 Client ID: SB-2												
Cyanide, Total	ND	11	10	91		10	92		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1632770-1 QC Sample: L2222691-01 Client ID: SB-1						
Solids, Total	84.5	76.6	%	10		20
General Chemistry - Westborough Lab Associated sample(s): 21-37 QC Batch ID: WG1632771-1 QC Sample: L2222691-21 Client ID: SB-16						
Solids, Total	92.3	90.4	%	2		20

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-01A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-01B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-02A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-02B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2222691-02C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-02D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-02E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-02X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-02Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-02Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-03A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-03B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2222691-03C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-03D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-03E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-03X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-03Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-03Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-04A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-04B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)
L2222691-04C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-04D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-04E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-04X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-04Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-04Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-05A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No:05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-05B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2222691-05C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-05D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-05E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-05X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-05Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-05Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-06A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-06B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2222691-06C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-06D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-06E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-06X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-06Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-06Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-07A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-07B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		SE-6020T(180),TL-6020T(180),FE-6020T(180),BA-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),AG-6020T(180),CD-6020T(180),CO-6020T(180)
L2222691-07C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-07D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-07E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-07X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-07Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-07Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-08A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-08B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2222691-08C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-08D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-08E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-08X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-08Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-08Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-09A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-09B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),MG-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)
L2222691-09C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-09D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-09E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-09X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-09Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-09Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-10A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-10B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2222691-10C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-10D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-10E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-10X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-10Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-10Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-11A	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-11B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2222691-11C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-11D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-11E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-11X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-11Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-11Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-12A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-12B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2222691-12C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-12D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-12E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-12X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-12Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-12Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-13A	Plastic 2oz unpreserved for TS	C	NA		4.2	Y	Absent		TS(7)
L2222691-13B	Plastic 8oz unpreserved	C	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-13C	Plastic 8oz unpreserved	C	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-13D	Plastic 8oz unpreserved	C	NA		4.2	Y	Absent		-
L2222691-13X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		A2-SPLP-537-ISOTOPE(14)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No:05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-13X1	Plastic 250ml unpreserved Extracts	C	NA		4.2	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-13X2	Plastic 250ml unpreserved Extracts	C	NA		4.2	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-13X3	Plastic 250ml unpreserved Extracts	C	NA		4.2	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-13X9	Tumble Vessel	C	NA		4.2	Y	Absent		-
L2222691-14A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-14B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AL-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2222691-14C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-14D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-14E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-14X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-14Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-14Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-15A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-15B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-16A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-16B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-17A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-17B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-18A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-18B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-19A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-19B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),MG-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)
L2222691-19C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-19D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-19E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-19X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-19Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-19Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-20A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-20B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-21A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-21B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-22A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-22B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-23A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-23B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-24A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-24B	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-25A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-25B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-26A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-26B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		FE-6020T(180),BA-6020T(180),TL-6020T(180),SE-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2222691-26C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-26D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-26E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-26X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-26Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-26Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-27A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-27B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2222691-27C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-27D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-27E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-27X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-27Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-27Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-28A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-28B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-29A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-29B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: FORMER AIRPORT**Lab Number:** L2222691**Project Number:** 508215230**Report Date:** 05/20/22**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-30A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-30B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-30C	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		-
L2222691-30D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-30X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-30X1	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-30X2	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-30X3	Plastic 250ml unpreserved Extracts	A	NA		2.8	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2222691-30X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2222691-31A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-31B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2222691-31C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-31D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-31E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-31X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-31Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-31Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-32A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-32B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),AL-6020T(180),AG-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No: 05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-32C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-32D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-32E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-32X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-32Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-32Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-33A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-33B	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-34A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-34B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2222691-34C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-34D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-34E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-34X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-34Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-34Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-35A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2222691-35B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.8	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2222691-35C	Vial Large Septa unpreserved (4oz)	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-35D	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No:05202216:14
Lab Number: L2222691
Report Date: 05/20/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222691-35E	Glass 500ml/16oz unpreserved	B	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-35X	Vial MeOH preserved split	B	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2222691-35Y	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-35Z	Vial Water preserved split	B	NA		2.8	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-36A	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2222691-36B	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-37A	Plastic 2oz unpreserved for TS	D	NA		3.2	Y	Absent		TS(7)
L2222691-37B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.2	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2222691-37C	Vial Large Septa unpreserved (4oz)	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-37D	Plastic 8oz unpreserved	D	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-37E	Glass 500ml/16oz unpreserved	C	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2222691-37X	Vial MeOH preserved split	C	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2222691-37Y	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-37Z	Vial Water preserved split	C	NA		4.2	Y	Absent	02-MAY-22 16:20	NYTCL-8260-R2(14)
L2222691-38A	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2222691-38B	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

Container Comments

L2222691-30X3

Project Name: FORMER AIRPORT
Project Number: 508215230

Serial_No:05202216:14
Lab Number: L2222691
Report Date: 05/20/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSA's)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESA's)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCA's)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonfluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FORMER AIRPORT
Project Number: 508215230

Lab Number: L2222691
Report Date: 05/20/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 4		Date Rec'd in Lab 4/30/22		ALPHA Job # L2222691	
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: Former Airport Project Location: Industrial Blvd Project # 508215230 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #	
Client Information Client: KAS Inc Address: 13 Letour Ave Suite 201 Pittsburgh, NY 15201 Phone: 518 563 9445 Fax: Email: Anthony.H@kas-consulting.com		Project Manager: Anthony Harney ALPHAQuote #: 19241 Turn-Around Time Standard ☒ Due Date: MSAD Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☒ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:			
These samples have been previously analyzed by Alpha ☐				ANALYSIS				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)	
Other project specific requirements/comments: * Do not analyze for Herbicides				Please specify Metals or TAL.				Total Bottles	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
22691-01		SB-1		4/28/22 1200		Soil		AH	
-02		SB-2		4/28/22 1125		Soil		AH	
-03		SB-3 (0-2')		4/28/22 1020		Soil		AH	
-04		SB-3		4/28/22 1020		Soil		AH	
-05		SB-4 (0-2')		4/28/22 935		Soil		AH	
-06		SB-4		4/28/22 935		Soil		AH	
-07		SB-5 (0-2')		4/27/22 1155		Soil		AH	
-08		SB-5		4/27/22 1155		Soil		AH	
-09		SB-6 (0-2')		4/27/22 1245		Soil		AH	
-10		SB-7 (0-2')		4/27/22 1245		Soil		AH	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By:		Date/Time		Received By:		Date/Time			
B. Lyons		4/29/22 950		B. Lyons AAL		4/29/22 1240			
		4/29/22 17:15				4/30/22 0010			

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 4		Date Rec'd In Lab 4/30/22		ALPHA Job # L2222691						
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: Former Airport Project Location: Industrial Blvd Project # 508215230 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #				
Client Information Client: KAS, Inc Address: 12 Lester Ave, Suite 204 Plattsburgh, NY 12901 Phone: 518 563 9445 Fax: Email: Anthony.H@KAS-Consulting.com		Project Manager: Anthony Harvey ALPHAQuote #: 18244 Turn-Around Time Standard ☒ Due Date: ASAP Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☒ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		Other project specific requirements/comments: * Do not analyze for Herbicides.		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		PEAS-537.1 SPLP TEL* TAL Cyanide		Sample Specific Comments		Total Bottles
22691-11		SB-7 (0-2')		4/26/22 1435		Soil		ALT		X				
-12		SB-7		4/26/22 1435						X		X		
-13		SB-8		4/27/22 940						X		X		
-14		SB-9		4/27/22 1055						X		X		
-15		SB-10		4/27/22 1105						X		X		
-16		SB-11		4/27/22 1135										
-17		SB-12		4/26/22 1535										
-18		SB-13		4/27/22 950						X		X		
-19		SB-14		4/27/22 1015						X		X		
-20		SB-15		4/27/22 1115										
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P P G G G		Preservative A A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
Relinquished By:		Date/Time		Received By:		Date/Time								
Bil Lyons		4/29/22 9:50 4/29/22 17:15		B Lyons AAL		4/29/22 12:00 4/30/22 00:10								

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 3 of 4		Date Rec'd in Lab <u>4/30/22</u>		ALPHA Job # <u>L2222691</u>						
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Former Airport</u> Project Location: <u>Industrial Blvd</u> Project # <u>509215230</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #				
Client Information Client: <u>KAS, Inc</u> Address: <u>13 Latour Ave, Suite 201</u> <u>Plattsburgh, NY 12901</u> Phone: <u>518 563 9445</u> Fax: Email: <u>Anthony.H@KAS-consulting.com</u>				Project Manager: <u>Anthony Harvey</u> ALPHAQuote #: <u>18249</u> Turn-Around Time Standard ☒ Due Date: <u>ASAP</u> Rush (only if pre approved) ☐ # of Days:				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWO Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☒ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: <u>* Do not analyze for herbicides</u>						ANALYSIS Please specify Metals or TAL.						Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials		PTAS-5371 SLP TLL* TAL Cyanide		Sample Specific Comments		
22691-21		SB-16		4/27/22 1800		Soil		AH		X				
-22		SB-17		4/27/22 1205										
-23		SB-18		4/27/22 1125										
-24		SB-19		4/26/22 1505										
-25		SB-20		4/26/22 1525										
-26		SB-21 (0-2')		4/26/22 1405						X X X				
-27		SB-21		4/26/22 1405						X X X				
-28		SB-22		4/26/22 1350										
-29		SB-23		4/26/22 1330										
-30		SB-24		4/26/22 1225						X				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P P G G G		Preservative A A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
Relinquished By: <u>B. Lyons</u>		Date/Time <u>4/29/22 9:50</u> <u>4/29/22 17:15</u>		Received By: <u>B. Lyons AAL</u>		Date/Time <u>4/29/22 12:00</u> <u>4/30/22 09:00</u>								

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-896-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 4 of 4		Date Rec'd in Lab 4/30/22		ALPHA Job # L7222691							
Client Information Client: KAS, Inc. Address: 15 Latham Ave, Suite 204 Plattsburgh, NY 12901 Phone: 518 563 9445 Fax: Email: Anthony.H@kas-consulting.com		Project Information Project Name: Former Airport Project Location: Industrial Blvd Project # SB8215230 (Use Project name as Project #) ☐ Project Manager: Anthony Harvey ALPHAQuote #: 18249 Turn-Around Time Standard ☒ Due Date: ASAP Rush (only if pre approved) ☐ # of Days:		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☒ NY Unrestricted Use ☐ NYC Sewer Discharge							
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: * Do not analyze for herbicides		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles							
Please specify Metals or TAL		ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		PPAS-537.1 TCL* TAL Cyanide		Sample Specific Comments	
22691-31		SB-25 (0-2')		4/26/22 1115		Soil		Alt		X		X		X	
-32		SB-25		4/26/22 1115						X		X		X	
-33		SB-26		4/26/22 1135						X		X		X	
-34		SB-27 (0-2')		4/26/22 945						X		X		X	
-35		SB-27		4/26/22 945						X		X		X	
-36		SB-28		4/26/22 1200						X		X		X	
-37		DUPE		4/29/22 935		↓		↓		X		X		X	
-38		Equipment Blank		4/28/22 1225		water		↓		↓		↓		↓	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P		Preservative A							
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: Bil Lyons		Date/Time 4/29/22 958 4/29/22 17:15		Received By: Bil Lyons AAL		Date/Time 4/29/22 12:00 4/30/22 00:00							

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



APPENDIX D

SOIL BORING LOGS



BORING LOG DIAGRAM

Boring No: SB-2

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/28/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed	48/24	0-48"	0 - 2.0' Brown, fine to coarse sand and gravel, trace silt.	SP	
1.0			0.0	2.0 - 4.0' Gray, clayey sand and gravel.		
1.5		24/12	48-72"	Wet @ 2.5'	SC	
2.0						
2.5						
3.0						
3.5						
4.0						
4.5				4.0 - 8.0' Gray, clayey sand and gravel.		
5.0						
5.5						
6.0				Boring Terminated @ 6.0'		
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

2" ID, Schedule 40 PVC Riser.

2" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-3

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/28/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec ("")	Interval ("")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.5'	48/20	0-48"	0 - 2.0' Brown fine to coarse sand and gravel, trace silt.	SP	
1.0			0.0			
1.5						
2.0	No Well Installed 3.5'	48/28	48-96"	2.0 - 4.0' Gray, clayey sand and gravel. Wet @ 3.5'	SC	
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

WOH - Weight of Hammer



BORING LOG DIAGRAM **Boring No: SB-4**

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230	Date: 04/28/22
Drilled by: KAS, Inc.	Drilling Method: Direct Push
Supervised by: Anthony Harvey	Boring Diameter.: 3"
	Development Method: NA
	Screened Length: NA

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	Ft < Grade No Well Installed 3.5'	48/30	0-48"	0 - 2.0' Brown fine to coarse sand and gravel, trace silt.	SP	
1.0			0.0			
1.5		48/48	48-96"	2.0 - 4.0' Gray, clayey sand and gravel. Wet @ 3.5'	SC	
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0				4.0 - 8.0' Gray, clayey sand and gravel.		
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

- Road Box with Bolt Down Cover, Set in Cement.
- Existing Surface.
- Bentonite Seal Placed in Annulus.
- Drill Cuttings Placed in Annulus.
- Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

- Locking Plug.
-
-
- Plug Point
- Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-5

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
Ft < Grade ↓	No Well Installed 3.5'	48/36	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand, trace gravel and silt.	SP	
				Wet @ 3.5'		
		48/34	0-96" 0.0	4.0 - 8.0' Tan, fine to coarse sand, little gravel, trace silt.		
				Boring Terminated @ 8.0'		

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-6

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230 Date: 04/27/22
 Drilled by : KAS, Inc. Drilling Method: Direct Push
 Supervised by: Anthony Harvey Boring Diameter.: 3"
 Development Method: NA
 Screened Length: NA

Grade = 0	Well Construction	Pen/Rec ("	Interval ("	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 4.0'	48/24	0-48"	0 - 4.0' Tan, fine to coarse sand, trace gravel and silt.	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5		48/48	0-96"	4.0 - 6.0' Tan, fine to coarse sand, little gravel, trace silt. Wet @ 4.0'	SC	
5.0			0.0			
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5				Boring Terminated @ 8.0'		
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

- Road Box with Bolt Down Cover, Set in Cement.
- Existing Surface.
- Bentonite Seal Placed in Annulus.
- Drill Cuttings Placed in Annulus.
- Grade #1 Silica Sand Pack Placed in Annulus.
- NM - Not Measured
- N/A - Not Applicable
- Locking Plug.
- 2" ID, Schedule 40 PVC Riser.
- 2" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen
- Plug Point
- Approximate Water Level During Drilling, below grade
- WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-7

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/26/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0	Well Construction	Pen/Rec ("")	Interval ("") PID (ppmv)	Soil Characteristics	Letter Symbol	Graphic Symbol
Ft < Grade ↓ No Well Installed 6.0' ▼		48/38	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand, trace gravel and silt.	SP	
		48/24	0-96" 0.0	4.0 - 8.0' Tan, fine to coarse sand, little gravel, trace silt. Wet @ 6.0'		
		48/24	96-144" 0.0	4.0 - 8.0' Brown, fine to coarse sand and gravel, trace silt. Boring Terminated @ 12.0'		

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-8

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by : KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0	Well Construction	Pen/Rec ("")	Interval ("") PID (ppmv)	Soil Characteristics	Letter Symbol	Graphic Symbol
Ft < Grade ↓ No Well Installed 4.0'		48/34	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand, little gravel, trace silt.	SP	
				4.0 - 8.0' Tan, fine to coarse sand, little gravel, trace silt. Wet @ 4.0'		
				Boring Terminated @ 8.0'		

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-9

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0	Well Construction	Pen/Rec ("")	Interval ("")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
Ft < Grade ↓ No Well Installed 4.0'		48/36	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt.	SP	
			0-96" 0.0	4.0 - 8.0' Tan, fine to coarse sand and gravel, trace silt. Wet @ 4.0'		
				Boring Terminated @ 8.0'		

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-10

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.5'	48/36	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt.	SP	
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-11

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.0'	48/36	0-48"	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt.	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-12

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/26/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed	48/38	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand, little gravel, trace silt.	SP	
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-13

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
		48/36	0-48" 0.0	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt.	SP	
	No Well Installed 3.5'			Wet @ 3.5' Boring Terminated @ 4.0'		

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM **Boring No: SB-14**

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230	Date: 04/27/22
Drilled by: KAS, Inc.	Drilling Method: Direct Push
Supervised by: Anthony Harvey	Boring Diameter.: 3"
	Development Method: NA
	Screened Length: NA

Letter Symbol	Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter S	Graphic	
			PID (ppmv)				
0.5	Ft<Grade ↓ No Well Installed 3.5'▼	48/32	0-48"	0 - 4.0' Tan, fine to coarse sand, trace gravel and trace silt.	SP		
1.0			0.0				
1.5							
2.0							
2.5							
3.0							
3.5					Wet @ 3.5'		
4.0							
4.5			48/30	0-96"	4.0 - 8.0' Tan, fine to coarse sand and gravel, trace silt.		
5.0		0.0					
5.5							
6.0							
6.5							
7.0							
7.5							
8.0					Boring Terminated @ 8.0'		
8.5							
9.0							
9.5							
10.0							
10.5							
11.0							
11.5							
12.0							
12.5							
13.0							
13.5							
14.0							
14.5							
15.0							
15.5							
16.0							
16.5							
17.0							
17.5							
18.0							
18.5							
19.0							

Legend

- | | |
|---|--|
| Road Box with Bolt Down Cover, Set in Cement. | Locking Plug. |
| Existing Surface. | 2" ID, Schedule 40 PVC Riser. |
| Bentonite Seal Placed in Annulus. | 2" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen |
| Drill Cuttings Placed in Annulus. | Plug Point |
| Grade #1 Silica Sand Pack Placed in Annulus. | Approximate Water Level During Drilling, below grade |
| NM - Not Measured | WOH - Weight of Hammer |



BORING LOG DIAGRAM

Boring No: SB-17

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/27/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.0'	48/24	0-48"	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt. Wet @ 3.0' Boring Terminated @ 4.0'	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-19

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/26/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.0'	48/30	0-48"	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt. Wet @ 3.0' Boring Terminated @ 4.0'	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

2" ID, Schedule 40 PVC Riser.

2" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-23

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/26/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.0'	48/36	0-48"	0 - 4.0' Tan, fine to coarse sand, trace gravel and trace silt. Wet @ 3.0' Boring Terminated @ 4.0'	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-24

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230	Date: 04/26/22
Drilled by: KAS, Inc.	Drilling Method: Direct Push
Supervised by: Anthony Harvey	Boring Diameter.: 3"
	Development Method: NA
	Screened Length: NA

	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
Grade = 0			PID (ppmv)			
0.5		48/30	0-48"	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt.	SP	
1.0			0.0			
1.5	Ft < Grade					
2.0						
2.5	No					
3.0	Well					
3.5	Installed			Wet @ 3.5'		
4.0						
4.5		24/20	48-72"	4.0 - 8.0' Tan, fine to coarse sand and gravel, trace silt.		
5.0			0.0			
5.5						
6.0				Boring Terminated @ 6.0'		
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

- | | |
|--|---|
| <ul style="list-style-type: none"> Road Box with Bolt Down Cover, Set in Cement. Existing Surface. Bentonite Seal Placed in Annulus. Drill Cuttings Placed in Annulus. Grade #1 Silica Sand Pack Placed in Annulus. NM - Not Measured N/A - Not Applicable | <ul style="list-style-type: none"> Locking Plug. 2" ID, Schedule 40 PVC Riser. 2" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen Plug Point Approximate Water Level During Drilling, below grade WOH - Weight of Hammer |
|--|---|



BORING LOG DIAGRAM

Boring No: SB-25

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230	Date: 04/26/22
Drilled by: KAS, Inc.	Drilling Method: Direct Push
Supervised by: Anthony Harvey	Boring Diameter.: 3"
	Development Method: NA
	Screened Length: NA

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter S	Graphic
			PID (ppmv)			
0.5	Ft < Grade No Well Installed 4.0'	48/36	0-48"	0 - 4.0' Tan, fine to coarse sand, trace gravel and trace silt.	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5		48/30	0-96"	4.0 - 8.0' Tan, fine to coarse sand and gravel, trace silt.		
5.0			0.0			
5.5						
6.0						
6.5						
7.0						
7.5						
8.0				Boring Terminated @ 8.0'		
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

- | | |
|---|---|
| <ul style="list-style-type: none"> Road Box with Bolt Down Cover, Set in Cement. Existing Surface. Bentonite Seal Placed in Annulus. Drill Cuttings Placed in Annulus. Grade #1 Silica Sand Pack Placed in Annulus. | <ul style="list-style-type: none"> Locking Plug. 2" ID, Schedule 40 PVC Riser. 2" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen Plug Point Approximate Water Level During Drilling, below grade |
|---|---|
- NM - Not Measured N/A - Not Applicable WOH - Weight of Hammer



BORING LOG DIAGRAM

Boring No: SB-26

Former Clinton County Airport - Lot A, D and J
Plattsburgh, New York

KAS Project #: 508215230

Date: 04/26/22

Drilled by: KAS, Inc.

Drilling Method: Direct Push

Supervised by: Anthony Harvey

Boring Diameter.: 3"

Development Method: NA

Screened Length: NA

Letter Symbol

Graphic Symbol

Grade = 0	Well Construction	Pen/Rec (")	Interval (")	Soil Characteristics	Letter Symbol	Graphic Symbol
			PID (ppmv)			
0.5	No Well Installed 3.0'	48/36	0-48"	0 - 4.0' Tan, fine to coarse sand and gravel, trace silt. Wet @ 3.0' Boring Terminated @ 4.0'	SP	
1.0			0.0			
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						

Legend

Road Box with Bolt Down Cover, Set in Cement.

Existing Surface.

Bentonite Seal Placed in Annulus.

Drill Cuttings Placed in Annulus.

Grade #1 Silica Sand Pack Placed in Annulus.

NM - Not Measured

N/A - Not Applicable

Locking Plug.

Plug Point

Approximate Water Level During Drilling, below grade

WOH - Weight of Hammer

BORING LOG DIAGRAM
Boring No: SB-27



APPENDIX E

CAMP

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.
4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed $150 \text{ mcg}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.
2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than $150 \text{ mcg}/\text{m}^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within $150 \text{ mcg}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B

Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.
2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.
3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM_{10}) with the following minimum performance standards:
 - (a) Objects to be measured: Dust, mists or aerosols;
 - (b) Measurement Ranges: 0.001 to 400 mg/m³ (1 to 400,000 :ug/m³);
 - (c) Precision (2-sigma) at constant temperature: +/- 10 :g/m³ for one second averaging; and +/- 1.5 g/m³ for sixty second averaging;
 - (d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
 - (e) Resolution: 0.1% of reading or 1g/m³, whichever is larger;
 - (f) Particle Size Range of Maximum Response: 0.1-10;
 - (g) Total Number of Data Points in Memory: 10,000;
 - (h) Logged Data: Each data point with average concentration, time/date and data point number
 - (i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
 - (j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
 - (k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
 - (l) Operating Temperature: -10 to 50⁰ C (14 to 122⁰ F);
 - (m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.
4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.
5. The action level will be established at 150 ug/m³ (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m³, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m³ above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m³ continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM₁₀ at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential-- such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

- (a) Applying water on haul roads;
- (b) Wetting equipment and excavation faces;
- (c) Spraying water on buckets during excavation and dumping;
- (d) Hauling materials in properly tarped or watertight containers;
- (e) Restricting vehicle speeds to 10 mph;
- (f) Covering excavated areas and material after excavation activity ceases; and
- (g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m³ action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.



APPENDIX F

RESUMES



**KAS, INC.
PROFESSIONAL PROFILE**

ANTHONY HARVEY

TITLE	Project Manager/Engineer, Plattsburgh
EXPERTISE	Environmental project management, client management, property due diligence assessments, construction monitoring, geotechnical/subsurface investigation, contaminated site investigation and clean up.
EXPERIENCE	KAS, Inc., Williston, Vermont. February 2017 – Present. Project Manager/Engineer in KAS's Plattsburgh, New York office. Project management of Phase I Environmental Site Assessments, collection of wastewater samples, stormwater pollution prevention plan (SWPPP) inspections, Spill Prevention, Control, and Countermeasure (SPCC) plans, construction monitoring, septic design, site investigation and remediation, subsurface investigation, and underground storage tank removal. Sanborn Head and Associates, Inc., Westford, Massachusetts 2014-2016. Conducted and managed Phase I Environmental Site Assessments, subsurface investigations, construction monitoring, soil density testing, operations and maintenance of remediation systems, tank pulls, groundwater sampling, monitoring well installation, and marketing/client interaction. ECS Mid-Atlantic, LLC, Baltimore, Maryland 2013-2014. Conducted Phase I and Phase II Environmental Site Assessments, asbestos sampling, mold abatement, project management, marketing, and proposal development.
ACADEMIC BACKGROUND	M.S., Clarkson University, Environmental Science and Engineering, 2013 B.S., Clarkson University, Biology, 2011
PROFESSIONAL QUALIFICATIONS	ASTM/EPA Environmental Professional
OTHER	OSHA 1910.120 Hazardous Waste Site Worker NYSDEC 4-Hour Erosion and Sediment Control Training Troxler Nuclear Density Gauge Training



**CUMBERLAND BAY GEOLOGY, DPC
PROFESSIONAL PROFILE**

JEREMY P. ROBERTS, P.G.

TITLE

Principal

EXPERTISE

Environmental program project management. Collection of environmental samples and operation and maintenance of hazardous waste treatment systems. Project management, geological investigations, hazardous waste site assessments, water system monitoring and maintenance, groundwater and soil contamination, remedial system design, installation, and operation. Wetland delineation. Phase I and Phase II Environmental Site Assessments.

EXPERIENCE

Cumberland Bay Geology, DPC, Plattsburgh, NY August 2019 – Present. Oversight of New York State environmental projects, including environmental site assessments, UST removals, site investigations, and environmental cleanup activities.

KAS, Inc., Williston, VT October 2004 – Present. Management of KAS' environmental projects/ programs, including environmental site assessments, UST removals, site investigations, and environmental cleanup activities. Foster technical innovation, quality control and assurance on projects and written materials. Business development activities for environmental programs. Project Management.

Griffin International, Inc., Williston, VT January 2002 – October 2004. Project management. Technical report writing. Geological investigations. Hazardous waste site assessments. Phase I and Phase II environmental site assessments. Collection of groundwater, surface water, and soil samples, soil screening, and soil vapor extraction system monitoring and maintenance.

ACADEMIC

BACKGROUND

BS, Plant and Soil Science, University of Vermont. May 1999.

**PROFESSIONAL
QUALIFICATIONS**

New York Licensed Geologist #000453-1
ASTM/EPA Environmental Professional
40 Hour OSHA 29CFR1910.120 Hazardous Worker Training
40 Hour Certification in Federal Wetland Delineation, Identification, and Classification.
Vermont Certified Asbestos Site Inspector
ASTM Phase I Environmental Site Assessment Practices For Commercial Real Estate: Transaction Screen & Phase I Site Assessment, April 2012
IAQ/IH Sampling Workshop, August 2012
Practical Guide to Vapor Intrusion Course, April 2016