

Cobey, Inc.

PERIODIC REVIEW REPORT

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
Buffalo, New York
BCP Site #C915202

December 2023

Revised: April 2024



PERIODIC REVIEW REPORT

Cobey-Buffalo Lakeside Commerce
Park-Parcels 1&2, Buffalo, New York
BCP Site #C915202



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ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis of New York, Inc.
BCP	Brownfield Cleanup Program
BLCP	Buffalo Lakeside Commerce Park
BUDC	Buffalo Urban Development Corporation
CAMP	Community Air Monitoring Program
Cobey	Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
DER	NYSDEC's Division of Environmental Remediation
DER-10	"Technical Guidance for Site Investigation and Remediation"
IC/EC	Institutional Controls and Engineering Controls
NYSDEC	New York State Department of Environmental Conservation
PRR	Periodic Review Report
RSCO	Recommended Soil Cleanup Objective
S/FMP	Soil/Fill Management Plan
SVOC	Semi-volatile Organic Compounds
TAGM	Technical and Administrative Guidance Memorandum

1. INTRODUCTION

Arcadis of New York, Inc. (Arcadis) has prepared this Periodic Review Report (PRR) for the Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2 (Cobey) Site as a requirement of the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). The Site is part of the Buffalo Lakeside Commerce Park (BLCP) in Buffalo, New York. The Site is located along the southern perimeter of the BLCP and consists of approximately 12.3 acres. The location of the Site is shown on Figure 1.

Previous investigations have determined that on-site surface and subsurface soil/fill is identified as the single media of concern. The remedial investigation of the Site performed under the BCP, determined that the soil/fill contained semi-volatile organic compounds (SVOC) at concentrations in excess of regulatory criteria applicable at that time (NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives (RSCO)), and/or urban background concentrations. In addition, the metals arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, and cyanide were detected at concentrations above the TAGM RSCOs and/or expected background concentrations. The presence, concentration, and distribution of these constituents appear to be attributable to the contents of the soil/fill material underlying the entire Site rather than a former or current on-Site containment source.

The remedial program at the Site consisted of covering the entire site to isolate the underlying soil/fill material. The cover materials consist of asphalt in areas of paved parking lots and Site driveways, concrete slab foundation beneath the Site building, concrete walkways, and a 12-inch-thick layer of clean soil, in low use green-space areas.

The cover system inspection indicates that the various cover system components are in-place and functioning as intended. A few areas of the existing soil cover system require minor action to prevent the functionality and effectiveness of the cover system from being compromised over time. Based on the preceding annual inspections (2008 through 2011), inspections were changed to occur every three years, with the first triennial inspection occurring in 2014. Each previous inspection, including the current 2023 triennial inspection, indicates that the cover system is in good condition and is well maintained.

This PRR has been prepared in accordance with NYSDEC's Division of Environmental Remediation (DER) "Technical Guidance for Site Investigation and Remediation" (DER-10), dated May 2010 (NYSDEC, 2010) and Section 7 of the Site Management Plan (February 2022).

2. SITE OVERVIEW

The Site is located in Buffalo, Erie County, New York and is identified as property tax parcel number 132.19-2-1.1 on the City of Buffalo Tax Maps. Historically, the site consisted of parcels 132.19-2-1, 132.19-2-2 and 132.20-1-13 but were combined on May 18, 2006. The Site is a 12.3-acre parcel located in the southwestern corner of the BLCP. As shown on Figure 2, the Site is bordered on the west by New York State Route 5, to the south by two adjacent industrial properties which are accessed from Commerce Drive, to the east by Hanna Drive, and separated from the property owned by the Buffalo Urban Development Corporation (BUDC) to the north by Ship Canal Parkway.

2.1 Site History

Previous investigations of the on-site surface and subsurface soil/fill identified elevated SVOC concentrations in excess of NYSDEC guidance criteria in place at the time of investigation (TAGM 4046 RSCOs, and/or urban background concentrations). Also, metals that included arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, and cyanide were detected at concentrations above the TAGM RSCOs and/or accepted background concentrations.

As a prerequisite for occupancy, one or more institutional and/or engineering controls were implemented. Accordingly, the Site was covered with multiple cover systems to isolate the underlying soil/fill material using one of the following cover types, depending on planned Site use.

Asphalt

Areas designated for vehicular and pedestrian traffic, including parking lots, driveways and walkways, were applied with a four-inch gravel subbase over the Site soil/fill materials followed by a minimum two-inch layer of asphalt pavement.

Concrete

The installation of the Site building foundation consisted of the placement of a minimum of four-inch gravel subbase over the Site soil/fill materials followed by an eight-mil polypropylene sheeting to provide a vapor barrier. The foundation was completed with the placement of a minimum four inches of concrete. In select areas designed for vehicular and pedestrian traffic adjacent to the Site building, concrete pavement was utilized. These areas were constructed similarly to that of the concrete building foundation, with the exception of the polypropylene sheeting.

Soil Cover

A minimum 12-inch thick soil cover was installed in areas where vehicular traffic was not anticipated. Prior to placement of the soil cover, a demarcation layer was rolled out over the entire area. This layer is composed of a fine polypropylene mesh made by Internet® that is bright orange in color with a mesh size of ¾-inches by 5/8-inches. The Site soil cover system is comprised of borrow soil from off-Site locations that were tested and confirmed “clean” in accordance with the S/FMP.

During advancement of the Cobey building foundation footers using a caisson drill, oily soil/fill material was observed at one of the caisson borings identified as location D-20. The impacted soil/fill was stockpiled, characterized, and disposed of offsite with NYSDEC approval at a permitted landfill. The location of where the impacted soil/fill was encountered is illustrated as point A on Figure 3.

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A remnant of a buried steel vessel was encountered during Site development activities that included the excavation of utility trenches and building footers. In accordance with the soil handling protocols indicated in the NYSDEC-approved S/FMP, the vessel and surrounding impacted soil/fill were removed as part of the Site redevelopment. The volume of soil/fill removal from within and around the steel vessel was approximately 51 tons. Figure 3 illustrates the approximate location from where the vessel and related impacted soil/fill were removed. A combined total of 67.68 tons of impacted soil were removed and disposed off-Site at a permitted landfill. The removal work was completed with NYSDEC oversight and approval.

2.2 Site Use

The Site consists of an approximately 90,000 square foot manufacturing building and driveway/loading/parking areas. The Site is zoned for industrial (manufacturing and processing) use and is currently operated by Cobey as a manufacturing operation for specialized systems and compressor packages used by the petrochemical, power generation, and air separation industries. The properties adjoining the Site, and in the neighborhood surrounding the Site, primarily include properties zoned for commercial, industrial, institutional, and residential use.

3. REMEDY PERFORMANCE

Until 2011, annual inspections have been conducted at the Site since 2008. In 2011, the frequency of inspections at the Site was changed by NYSDEC to once every three years. Each Site inspection consisted of a visual Site walk-through to observe and photograph the integrity of the cover systems, including sloughing, cracks, settlement, erosion, distressed vegetation, and damaged cover system.

A certification period extension for the 2023 periodic inspection was approved by NYSDEC to accommodate soil import sampling and cap repairs that were required from truck rutting that occurred around the east loading dock area prior to the inspection. NYSDEC approval of the soil import request was received on December 1, 2023, post-repair of the cap areas using 1 cubic yard of the sampled soil material. The soil import request approval is included as Appendix D.

Site inspection activities were conducted on December 5, 2023, following this approval. Inspection activities indicate that the various cover system components are functioning as intended. During the inspection, one major deficiency in the cover system in an area associated with an unreported sewer line repair which was observed on the north side of the property beginning at the edge of Ship Canal Parkway and running below the sidewalk with a new standpipe stickup on the south side of the public sidewalk.

In addition to the above deficiency, some areas were observed and identified for minor improvements and repairs. Additional details of these deficiencies can be found in Section 4.4; and the inspection report and photographs included as Appendix A and Appendix B, respectively.

4. INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS PLAN COMPLIANCE REPORT

Institutional Controls and Engineering Controls (IC/EC) currently enacted at the Site include the following:

- The property may be used for: commercial/industrial use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The following are prohibited without the express written waiver of the prohibition by the NYSDEC: day care, childcare, or medical care; and
- An engineered cover system.

4.1 Cover System

Exposure to the limited remaining contamination at the Site is prevented by existing cover systems placed over the Site. As described in Section 2 above, these cover systems are comprised of approximately 12 inches feet of clean fill; or a four-inch gravel subbase followed by 2-inches of asphalt or 4-inches of concrete. The Excavation Work Plan (EWP) provided in Appendix B of the SMP outlines the procedures required to be implemented for intrusive activities within the Site and if any underlying limited remaining contamination is disturbed. Procedures for the inspection of the existing cover are provided in the Monitoring and Sampling Plan included in Section 4 of the SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and NYSDOH's Generic Community Air Monitoring Plan (G-CAMP) provided in Appendices C and D of the SMP, respectively.

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Any disturbance of the Site's cover system must be overseen by a qualified environmental professional as defined in 6 NYCRR Part 375, a Professional Engineer (PE) who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

The existing cover system is a permanent control feature, and the quality and integrity of this feature will be inspected at defined, regular intervals in accordance with this SMP in perpetuity.

4.2 Institutional Controls/Engineering Controls Conclusions and Recommendations

All IC/ECs for the Cobey Site have been implemented in accordance with the NYSDEC-approved Environmental Easement. To date, eight inspections conducted at the Site during 2008, 2009, 2010, 2011, 2014, 2017, and 2020 indicate that the cover system is intact and functioning as intended. During the 2023 inspection, one major deficiency was identified in the cover system in an area associated with an unreported sewer line repair which was observed on the north side of the property beginning at the edge of Ship Canal Parkway and running below the sidewalk with a new standpipe stickup on the south side of the public sidewalk.

Upon correspondence with Cobey and the contractor involved in the repair work, this was due to an emergency repair of a collapsed sewer lateral from the building to the main sewer line, which was discovered on September 5, 2023, with work conducted immediately following discovery. Excavation for this line repair was done to a depth of 5 feet as reported by the Erie County Sewer Authority Inspector which was below the demarcation layer of the cover soil. The demarcation layer was not noted by the contractor's representative as having been observed during the repair and is assumed to not have been repaired during backfill of the sewer repair. Cobey did not report removal of any soil offsite during construction activities, however, some stone import was brought in from a local quarry to repair the roadway overburden. Due to the quick turnaround of the emergency repair work the contractor was not made aware of the Brownfield Status of the property and therefore notifications were not made to NYSDEC made for this work and a Community Air Monitoring Program (CAMP) was not used during the repair. A Corrective Measures Work Plan will be developed and submitted to NYSDEC to reestablish this demarcation layer following submittal of this report.

It is recommended that the additional steps indicated below be taken to maintain the integrity of the soil cover system to address some minor deficiencies found in the cover system:

- Provide additional pavement or placing a permanent barrier (e.g., boulders or bollards) at the pavement edge along the turn of the entrance to the east loading dock to prevent vehicles from driving off paved surfaces and causing damage to vegetative cover. Repaired area will need re-seeding in Spring 2024. Refer to photo 12 and 13 in Appendix B.
- Provide additional paved surface along the edges of the east loading dock and ensuring that material/equipment is fully staged on paved surfaces in dock areas without overhanging into the grass cover. Refer to photos 17 and 43 in Appendix B.
- Repair asphalt around westernmost and central catch basins in the main parking lot and fill or seal the cracks observed in the east loading dock asphalt to maintain the impermeable surface and

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prevent infiltration from potential spills from vehicle and equipment traffic. Refer to photo 2, 4, 5, and 8 in Appendix B.

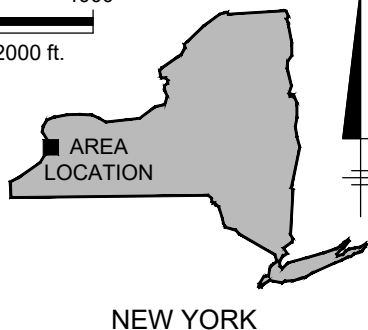
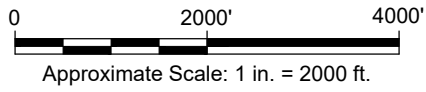
Due to some of the above recommendations requiring asphalt placement and sealing requiring warmer temperatures, Arcadis recommends that the above corrective measures be completed in advance of a corrective action inspection to be scheduled on or prior to August 2, 2024. It is anticipated that a Corrective Action Report Form will be completed and submitted to NYSDEC within 2 weeks of this visit documenting these corrective actions.

FIGURES





REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., BUFFALO SE, NEW YORK, 2019.



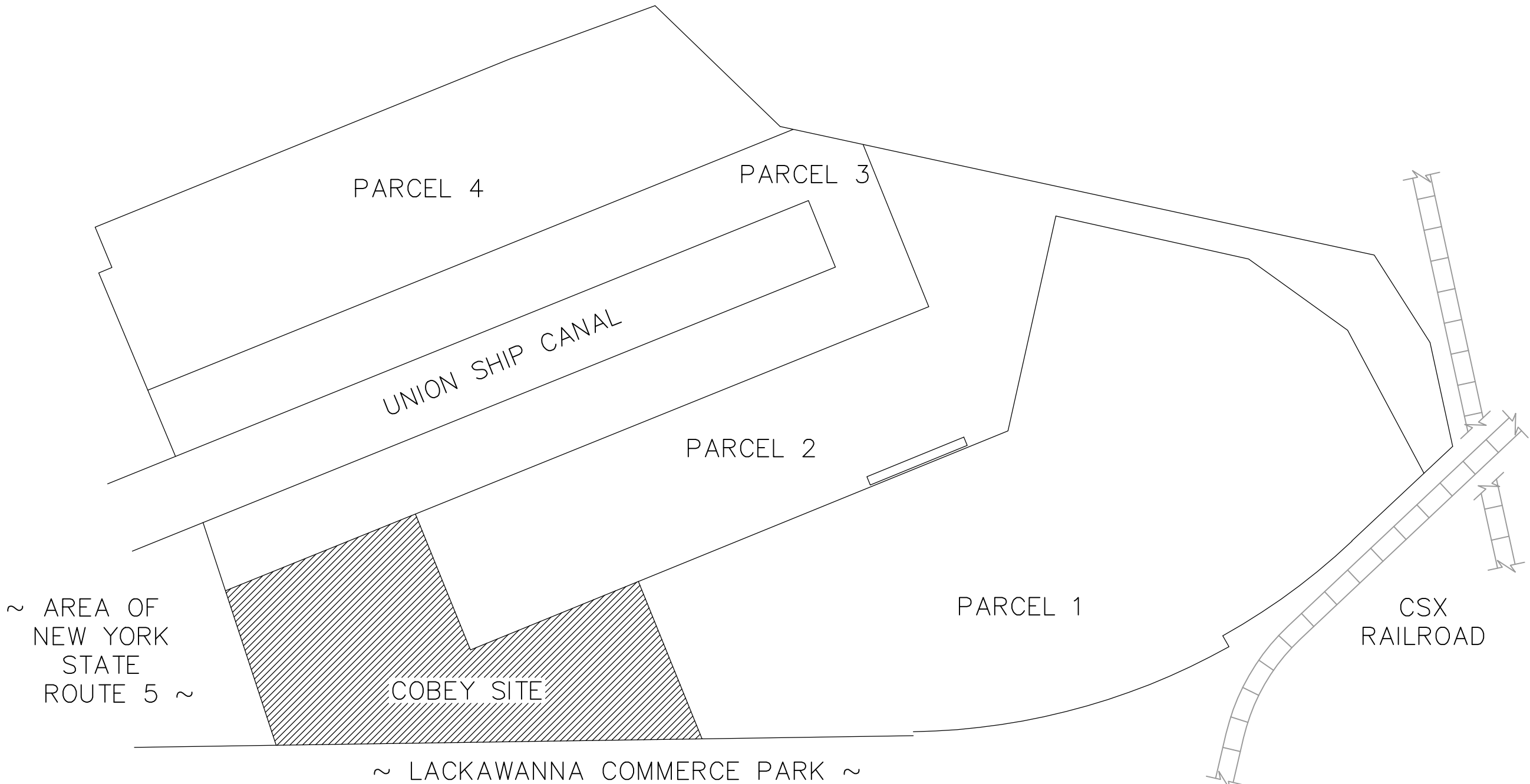
COBEY-BUFFALO LAKESIDE COMMERCE PARK-PARCELS 1&2
BUFFALO, NEW YORK
SITE MANAGEMENT PLAN

SITE LOCATION MAP

ARCADIS

FIGURE
1

~ BUFFALO URBAN DEVELOPMENT CORPORATION ~



COBEY-BUFFALO LAKESIDE COMMERCE PARK-PARCELS 1&2
BUFFALO, NEW YORK
SITE MANAGEMENT PLAN

PARCEL MAP

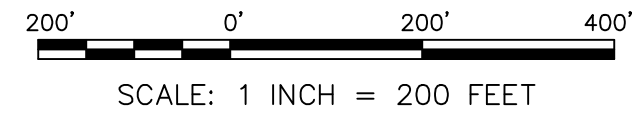
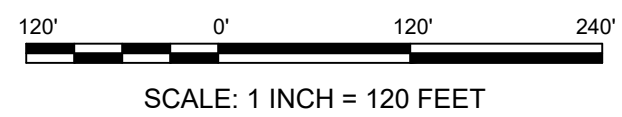
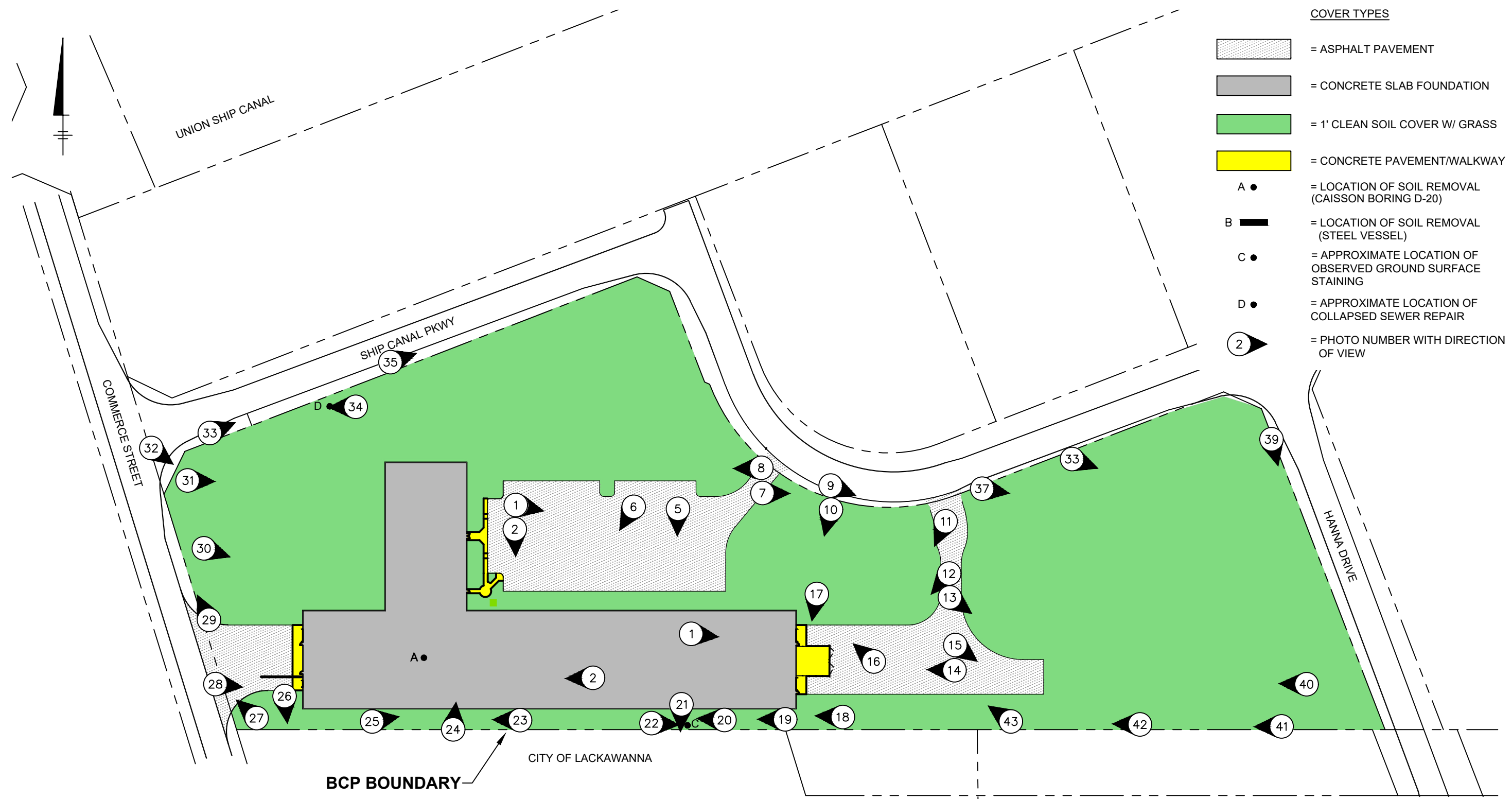


FIGURE
2

C:\Users\jmeve\DCI\ACCDocs\Arcadis\AUS-COBEY\B-UFFALO\New York\Project\Files\202301-In Progress\01-DWG\GEN-PARCEL MAP.dwg LAYOUT: 2 SAVED: 2/6/2024 9:21 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: PLOTSTYLETABLE: PLOTTED: 2/6/2024 9:23 AM BY: MEYER, JULIE

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COBEY-BUFFALO LAKESIDE COMMERCE PARK-PARCELS 1&2
 BUFFALO, NEW YORK
SITE MANAGEMENT PLAN

**SITE COVER SYSTEM
 2017 INSPECTION PHOTOS**

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FIGURE **3**

APPENDIX A

Environmental Inspection Form



ENVIRONMENTAL INSPECTION FORM
COBEY-BUFFALO LAKESIDE COMMERCE PARK-PARCELS 1&2
(BCP Site # C915202)

Property Name: Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2

Inspection Date: December 5, 2023

Property Address: One Ship Canal Parkway

City: Buffalo State: New York Zip Code: 14218

Property ID: (Tax Assessment Map)

Section-Block-Lot Nos: 132.19-2-1.1

Total Acreage: Approximately 12.3

Weather (during inspection): Temperature: 35-deg. F Conditions: Cloudy

SIGNATURE:

The findings of this inspection were discussed with appropriate personnel and Megan Kuczka (NYSDEC), corrective actions were identified, and implementation was mutually agreed upon:

Inspector:  Date: 12/5/2023

Next Scheduled Inspection Date: Summer 2026

SECURITY AND ACCESS

	<u>Yes</u>	<u>No</u>
1. Access controlled by perimeter fencing?		NA
Are there sections of the fence material damaged or missing?		
Are the fence or gate post foundations structurally sound?		
2. "No Trespass" signs posted in appropriate languages?		NA
Are the signs securely attached to the fencing or posts?		
Are there sufficient signs; are the signs adequately spaced around the perimeter of the property?		
3. Is there evidence of trespassing?	_____	_____ <u>X</u>
Is there evidence of illegal dumping?	_____ <u>X</u>	_____

COVER & VEGETATION

4. Final cover in acceptable condition?	_____ <u>X</u>	_____
Is there evidence of sloughing, erosion, ponding or settlement?	_____	_____ <u>X</u>
Is there evidence of unintended traffic; rutting?	_____ <u>X</u> ¹	_____
Is there evidence of distressed vegetation/turf?	_____ <u>X</u> ²	_____

- | | | |
|--|--------------------------|---------------|
| 5. Final cover sufficiently covers soil/fill material? | <u> X </u> | <u> </u> |
| Are there cracks visible in the soil or pavement? | <u> X³ </u> | <u> </u> |
| Is there evidence of erosion in the stormwater channels or swales? | <u> </u> | <u> X </u> |
| Is there damage to the synthetic erosion control fabric in the channels or swales? | | NA |

ACTIVITY ON SITE

- | | | |
|---|--------------------------|---------------|
| 6. Any activity on site that mechanically disturbed soil cover? | <u> X⁴ </u> | <u> </u> |
|---|--------------------------|---------------|

ADDITIONAL FACILITY INFORMATION

Development on or near the site? (Specify size and type: e.g., residential, 40 acres, well and septic)

None.

COMMENTS

Item #

- (1) Repaired minor erosion/rutting from vehicles cutting corners of pavement that will need re-seeding in the spring. Refer to photos 12 and 13. Arcadis recommends that Cobey, Inc. provide additional paving or place a large boulder/bollard at the pavement edge of this turn to prevent vehicles from driving off paved surfaces to prevent cover damage.
- (2) Minor worn or distressed areas of vegetation. Refer to photos 17 and 43. Arcadis recommends that Cobey, Inc. provide additional asphalt cover to prevent cover damage, as well as keep staged material/equipment fully staged on paved surfaces in dock areas.
- (3) Major asphalt wear in main parking lot around catch basins and minor cracking in the east loading dock asphalt. Refer to photos 5 and 6 for the main parking lot and photos 11 through 16 for the east loading dock. Arcadis recommends that Cobey, Inc. repair asphalt areas around the westernmost and central catch basin, and filling or sealing the cracks observed in the east loading dock to maintain the impermeable surface and prevent infiltration from potential spills from vehicle and equipment traffic by Spring 2024.
- (4) Emergency sewer repair area identified by the sidewalk on the northwest side of the property. Refer to photos 33 and 34. Additional information regarding this area is provided in Section 3 of the 2023 Periodic Review Report and a work plan will be submitted to address reestablishing the demarcation layer in this area.

ATTACHMENTS

1. Site Sketch (Figure 3)
2. Photographs (Appendix B)

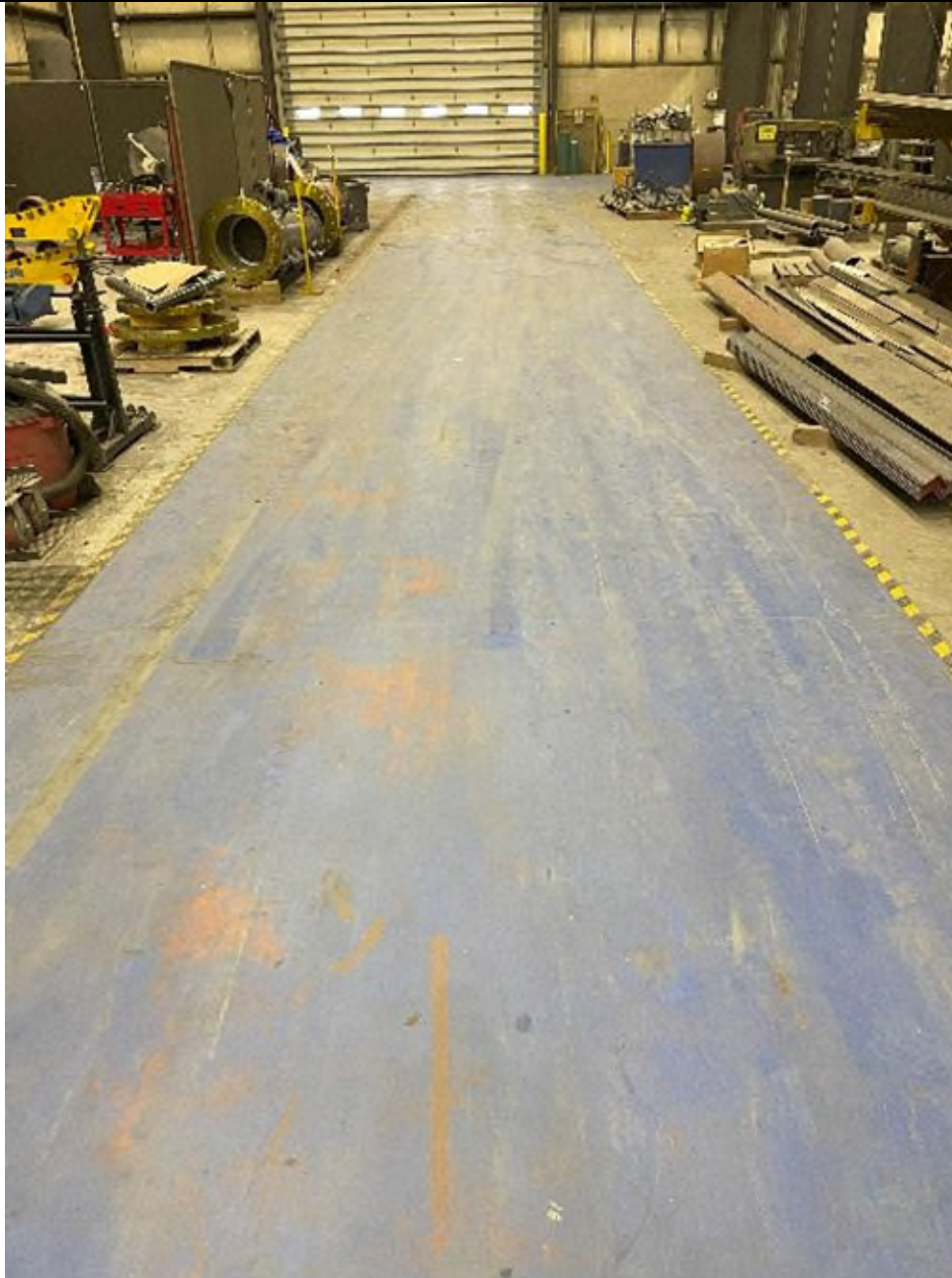
APPENDIX B

Photograph Log



PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 1

Description:

Worn paint on north pedestrian aisle of facility floor.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 2

Description:

Worn paint on south pedestrian aisle of facility floor.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 3

Description:
Cracks in asphalt
pavement of the main
parking lot.

Direction of photo:
South

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 4

Description:
Cracks in asphalt pavement of the main parking lot.

Direction of photo:
East

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 5

Description:

Minor resurfacing repairs needed around easternmost catch basin in main parking lot.

Direction of photo:

South

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 6

Description:
Major resurfacing repairs needed around central catch basin in main parking lot.

Direction of photo:
Southwest

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 7

Description:
Grass cover east of
main parking lot.

Direction of photo:
East

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 8

Description:

Grass cover and landscaping north of main parking lot.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 9

Description:

Landscaped area along Ship Canal Parkway on east side of Cobey site.

Direction of photo:

Southeast

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 10

Description:
Landscaped area north
of east loading dock.

Direction of photo:
South

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 11

Description:

Minor cracks in asphalt entrance to east loading dock.

Direction of photo:

South

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 12

Description:

Repaired grass cover from traffic cutting corner at east loading dock entrance.

Direction of photo:

South

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 13

Description:

Repaired grass cover
along east side of east
loading dock entrance.

Direction of photo:

Southeast

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 14

Description:
Asphalt surface of east loading dock.

Direction of photo:
West

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 15

Description:
Asphalt surface of east loading dock.

Direction of photo:
East

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 16

Description:

Grass cover along north edge of the east loading dock.

Direction of photo:

Northwest

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 17

Description:

Minor grass cover damage along north edge of east loading dock from equipment staging.

Direction of photo:

South

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 18

Description:
Grass cover south of
east loading dock and
south side of building.

Direction of photo:
West

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 19

Description:

Grass cover along south edge of the building.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 20

Description:

Tramped grass walking paths leading to catch basin and vegetated area by the south man-door of the building.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 21

Description:
Unknown staining in vegetated area by the south man-door of the building.

Direction of photo:
South

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 22

Description:
Unknown staining in
vegetated area by the
south man-door of the
building.

Direction of photo:
Northeast

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 23

Description:

Grass cover along south edge of the building.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 24

Description:

Missing grate from drain along south edge of the building.

Direction of photo:

Northwest

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 25

Description:

Grass cover by the dust collector on the south side of the building.

Direction of photo:

Northeast

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 26

Description:
Grass cover by the southwestern corner of the property.

Direction of photo:
South

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 27

Description:

Southwestern corner of west loading dock by Commerce Street.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 28

Description:
West loading dock.

Direction of photo:
East

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 29

Description:

Grass cover along
Commerce Street on the
west side of Cobey site.

Direction of photo:

North

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 30

Description:

Grass cover on west side of Cobey building.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 31

Description:

Grass cover on west side of Cobey building.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 32

Description:

Landscaping along north side of Cobey site at the corner of Ship Canal Parkway and Commerce Drive.

Direction of photo:

Southeast

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 33

Description:

Grass cover on north side of Cobey site along Ship Canal Parkway.

Direction of photo:

South

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 34

Description:
Standpipe installation
and cover soil
disturbance along Ship
Canal Parkway.

Direction of photo:
Northwest

Photograph taken by:
A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 35

Description:

Grass cover on north side of Cobey site along Ship Canal Parkway.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 36

Description:

Grass cover north of
main parking lot, along
Ship Canal Parkway.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 37

Description:

Grass cover east of east loading dock along Ship Canal Parkway.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York

	<p>Photograph: 38</p> <p>Description: Grass cover east of east loading dock along Ship Canal Parkway.</p> <p>Direction of photo: East</p> <p>Photograph taken by: A. Romei</p> <p>Date: 12/5/2023</p>
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PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 39

Description:

Grass cover east of east loading dock along Ship Canal Parkway.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 40

Description:

Grass cover east of east loading dock along Hanna Drive.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 41

Description:

Grass cover on berm south of east loading dock and building.

Direction of photo:

West

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 42

Description:

Grass cover on berm south of east loading dock and building.

Direction of photo:

East

Photograph taken by:

A. Romei

Date: 12/5/2023

PHOTOGRAPH LOG

Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
2023 Periodic Review Report
Buffalo, New York



Photograph: 43

Description:

Minor grass cover damage along south edge of east loading dock from equipment staging.

Direction of photo:

Northwest

Photograph taken by:

A. Romei

Date: 12/5/2023

APPENDIX C

Certification Form





Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	C915202		
Site Name Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2			
Site Address: 1 Ship Canal Parkway Zip Code: 14218			
City/Town: Buffalo			
County: Erie			
Site Acreage: 12.300			
Reporting Period: June 08, 2020 to December 05, 2023			
		YES	NO
1.	Is the information above correct?	<input type="checkbox"/>	<input type="checkbox"/>
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input type="checkbox"/>
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs in place and functioning as designed?	<input type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Description of Institutional Controls

Parcel

Owner

Institutional Control

132.19-2-1.1

Cobey, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

Building Use Restriction
Site Management Plan

Institutional Controls: Environmental Easement - Site Management Plan; Ground water use restriction; Land use restriction; Soil Management Plan; Building Use Restriction.

Engineering Controls: Cover System.

Description of Engineering Controls

Parcel

Engineering Control

132.19-2-1.1

Cover System

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.



Signature of Owner, Remedial Party or Designated Representative

3/19/24

Date

**IC CERTIFICATIONS
SITE NO. C915202**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as a Qualified Environmental Professional for the _____
(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date

APPENDIX D

DEC Import Soil Request Approval



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

December 1, 2023

Andrei Romei
Arcadis
50 Fountain Plaza
Suite 600
Buffalo, NY 14202

Re: Site Management (SM) – Import Request
Cobey-Buffalo Lakeside Commerce Park –
Parcels 1&2
Erie County, Site No.: **C915202**

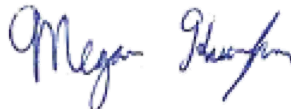
Dear Andrei Romei:

The Department has reviewed your request received December 1, 2023 to import approximately 50 cubic yards of topsoil from Southtowns Supply. Based on the information provided, the request is hereby approved.

The proposed fill material meets commercial soil cleanup objectives and therefore may be placed below or above the demarcation layer. Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source. In the future, please submit the Import Request Form prior to importing the materials to the Site.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,



Megan Kuczka
Environmental Program Specialist – 1

cc: Michael Durkin – Cobey, Inc.
Michael Higgins – Arcadis



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Signature

Date

Print Name

Firm

Table 1
Analytical Results for Topsoil Fill Material
Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
Buffalo, New York



Sample ID:	Allowable Constituent Levels for Imported Fill or Soil - Table 5.4(e) - Industrial Use	SOUTHTOWN-001
Sample Date:		8/4/2023
Pesticides/Herbicides (mg/kg)		
2,4,5-TP Acid (Silvex)	3.8	ND
4,4'-DDE	17	0.0152 P
4,4'-DDT	47	0.0086 P
4,4'-DDD	14	ND
Aldrin	0.19	ND
alpha-BHC	0.02	ND
beta-BHC	0.09	ND
Chlordane (alpha)	2.9	ND
delta-BHC	0.25	ND
Dibenzofuran	210	ND
Dieldrin	0.1	ND
Endosulfan I	102	ND
Endosulfan II	102	ND
Endosulfan sulfate	200	ND
Endrin	0.06	ND
Heptachlor	0.38	ND
Lindane	0.1	ND
Polychlorinated biphenyls (mg/kg)		
Aroclor 1016	NA	ND
Aroclor 1221	NA	ND
Aroclor 1232	NA	ND
Aroclor 1242	NA	ND
Aroclor 1248	NA	ND
Aroclor 1254	NA	0.0264 J
Aroclor 1260	NA	0.0301 J
Aroclor 1262	NA	ND
Aroclor 1268	NA	0.0111 J
Total PCBs	1	0.0676 J
Metals (mg/kg)		
Aluminum	NA	9420
Antimony	NA	ND
Arsenic	16	9.68
Barium	400	78.6
Beryllium	47	0.602
Cadmium	7.5	0.520 J
Calcium	NA	16200
Chromium, hexavalent	19	0.646 J
Chromium, trivalent	1,500	17 J
Chromium (total)	NA	17.6
Cobalt	NA	7.81
Copper	270	28.4
Iron	NA	19700
Lead	450	52.6
Manganese	2,000	504
Magnesium	NA	4620
Total Mercury	0.73	0.087 J
Nickel	130	20.3
Potassium	NA	1110
Selenium	4	0.696 J
Silver	2	ND
Sodium	NA	98.5 J
Thallium	NA	0.375 J
Vanadium	NA	19.5
Zinc	2480	116
Total Cyanide	27	ND
Volatile Organic Compounds (mg/kg)		
1,1,1-Trichloroethane	0.68	ND
1,1-Dichloroethane	0.27	ND
1,1-Dichloroethene	0.33	ND
1,2-Dichlorobenzene	1.1	ND
1,2-Dichloroethane	0.02	ND
cis-1,2-Dichloroethene	0.25	ND
trans-1,2-Dichloroethene	0.19	ND
1,3-Dichlorobenzene	2.4	ND
1,4-Dichlorobenzene	1.8	ND
1,4-Dioxane (8270D)	0.1	ND
Acetone	0.05	ND
Benzene	0.06	ND
Butylbenzene	12	ND
Carbon Tetrachloride	0.76	ND

Table 1
Analytical Results for Topsoil Fill Material
Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
Buffalo, New York



Sample ID:	Allowable Constituent Levels for Imported Fill or Soil - Table 5.4(e) - Industrial Use	SOUTHTOWN-001
Sample Date:		8/4/2023
Volatile Organic Compounds (mg/kg) (continued)		
Chlorobenzene	1.1	ND
Chloroform	0.37	ND
Ethylbenzene	1	ND
Hexachlorobenzene	3.2	ND
Methyl ethyl ketone (2-butanone)	0.12	ND
Methyl tert-butyl ether	0.93	ND
Methylene Chloride	0.05	ND
Propylbenzene-n	3.9	ND
sec-Butylbenzene	11	ND
tert-Butylbenzene	5.9	ND
Tetrachloroethene (PCE)	1.3	ND
Toluene	0.7	ND
Trichloroethene (TCE)	0.47	ND
Trimethylbenzene-1,2,4	3.6	ND
Trimethylbenzene-1,3,5	8.4	ND
Vinyl Chloride	0.02	ND
m,p-Xylenes	NA	ND
o-Xylene	NA	ND
Xylene (Total)	1.6	ND
Semi-Volatile Organic Compounds (mg/kg)		
2-Methylphenol	NA	ND
Acenaphthene	98	ND
Acenaphthylene	107	0.076 J
Anthracene	500	0.096 J
Benzo(a)anthracene	1	0.28
Benzo(a)pyrene	1	0.27
Benzo(b)fluoranthene	1.7	0.38
Benzo(g,h,i)perylene	500	0.18 J
Benzo(k)fluoranthene	1.7	0.12 J
Chrysene	1	0.32
Dibenzo(a,h)anthracene	0.56	0.043 J
Fluoranthene	500	0.54
Fluorene	386	0.036 J
Indeno(1,2,3-cd)pyrene	5.6	0.19 J
Naphthalene	12	0.038 J
o-Cresol (2-Methylphenol)	0.33	ND
m,p-Cresol (3-Methylphenol/4-Methylphenol)	0.33	0.038 J
Pentachlorophenol (PCP)	0.8	ND
Phenanthrene	500	0.3
Phenol	0.33	ND
Pyrene	500	0.45
Perfluoroalkyl Substances (mg/kg)		
Perfluorobutanoic Acid (PFBA)	NA	0.000214 J
Perfluoropentanoic Acid (PFPeA)	NA	0.000092 J
Perfluorobutanesulfonic Acid (PFBS)	NA	0.000066 J
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NA	ND
Perfluorohexanoic Acid (PFHxA)	NA	0.000105 J
Perfluoropentanesulfonic acid (PFPeS)	NA	ND
Perfluoroheptanoic Acid (PFHpA)	NA	0.000091 J
Perfluorohexanesulfonic Acid (PFHxS)	NA	ND
Perfluorooctanoic Acid (PFOA)	0.00066	0.000494
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NA	ND
Perfluoroheptanesulfonic Acid (PFHpS)	NA	ND
Perfluorononanoic Acid (PFNA)	NA	0.000103 J
Perfluorooctanesulfonic Acid (PFOS)	0.00088	0.000734
Perfluorodecanoic Acid (PFDA)	NA	0.000106 J
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NA	ND
Perfluorononanesulfonic acid (PFNS)	NA	ND
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NA	ND
Perfluoroundecanoic Acid (PFUnA)	NA	0.000062 J
Perfluorodecanesulfonic Acid (PFDS)	NA	ND
Perfluorooctanesulfonamide (PFOSA)	NA	ND
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NA	ND
Perfluorododecanoic Acid (PFDoA)	NA	ND
Perfluorotridecanoic Acid (PFTrDA)	NA	ND
Perfluorotetradecanoic Acid (PFTeDA)	NA	ND
Hexafluoropropane oxide dimer acid (HFPO-DA)	NA	ND

Table 1
Analytical Results for Topsoil Fill Material
Cobey-Buffalo Lakeside Commerce Park-Parcels 1&2
Buffalo, New York



Sample ID:	Allowable Constituent Levels for Imported Fill or Soil - Table 5.4(e) - Industrial Use	SOUTHTOWN-001
Sample Date:		8/4/2023
Perfluoroalkyl Substances (mg/kg) (Continued)		
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NA	ND
Perfluorododecanesulfonic Acid (PFDoS)	NA	ND
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NA	ND
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NA	ND
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	NA	ND
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	NA	ND
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	NA	ND
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	NA	ND
Perfluoro-4-oxapentanoic acid (PFMPA)	NA	ND
Perfluoro-5-oxahexanoic acid (PFMBA)	NA	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	ND
Nonafluoro-3,6-dioxheptanoic acid (NFDHA)	NA	ND
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	NA	ND
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	NA	ND
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	NA	ND

Notes:

1. Samples collected by Arcadis on the dates indicated.
2. Samples analyzed by ALS Environmental.
3. Concentrations are reported in milligrams per kilogram (mg/kg).
4. Allowable Constituent Level for m,p-Cresol is 0.33 for both constituents.
5. NA = Not Applicable.
6. ND = Not Detected.
7. NS = Not Sampled.
8. J = Estimated value.
9. P = The Relative Percent Difference between the results for the two columns exceeds the method-specified criteria.



ANALYTICAL REPORT

Lab Number:	L2358446
Client:	Arcadis 100 Chestnut Street Suite 1020 Rochester, NY 14604
ATTN:	Andrei Romei
Phone:	(585) 662-4057
Project Name:	COBEY
Project Number:	Not Specified
Report Date:	10/18/23

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-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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



Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2358446-01	SOUTHTOWN-001	SOIL	1 SHIP CANAL PKWY, BUFFALO, NY	10/04/23 10:20	10/04/23

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

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: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

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.

Sample Receipt

The analyses performed were specified by the client.

Semivolatile Organics

WG1838372: An MS/MSD was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

Total Metals

L2358446-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Cyanide, Total

The WG1838378-2/-3 LCS/LCSD recoveries for cyanide, total (132%/137%), associated with L2358446-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1839156-2 LCS recovery for chromium, hexavalent (77%), associated with L2358446-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analysis are 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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 10/18/23

ORGANICS

VOLATILES

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 10/14/23 12:19
 Analyst: JIC
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
Tetrachloroethene	ND		ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
Acetone	ND		ug/kg	16	7.5	1
2-Butanone	ND		ug/kg	16	3.5	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
n-Propylbenzene	ND		ug/kg	1.6	0.27	1

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	55.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/14/23 06:06
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1840259-5					
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
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	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
Vinyl chloride	ND		ug/kg	1.0	0.34
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
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
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
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
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 10/14/23 06:06
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1840259-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	89		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1840259-3 WG1840259-4								
Methylene chloride	84		84		70-130	0		30
1,1-Dichloroethane	99		100		70-130	1		30
Chloroform	85		85		70-130	0		30
Carbon tetrachloride	88		88		70-130	0		30
Tetrachloroethene	102		101		70-130	1		30
Chlorobenzene	102		101		70-130	1		30
1,2-Dichloroethane	95		96		70-130	1		30
1,1,1-Trichloroethane	87		86		70-130	1		30
Benzene	94		94		70-130	0		30
Toluene	96		96		70-130	0		30
Ethylbenzene	96		97		70-130	1		30
Vinyl chloride	91		89		67-130	2		30
1,1-Dichloroethene	85		85		65-135	0		30
trans-1,2-Dichloroethene	89		88		70-130	1		30
Trichloroethene	96		94		70-130	2		30
1,2-Dichlorobenzene	104		104		70-130	0		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	103		103		70-130	0		30
Methyl tert butyl ether	83		86		66-130	4		30
p/m-Xylene	102		101		70-130	1		30
o-Xylene	101		100		70-130	1		30
cis-1,2-Dichloroethene	91		90		70-130	1		30
Acetone	93		98		54-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1840259-3 WG1840259-4								
2-Butanone	106		112		70-130	6		30
n-Butylbenzene	102		100		70-130	2		30
sec-Butylbenzene	103		103		70-130	0		30
tert-Butylbenzene	104		102		70-130	2		30
n-Propylbenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	102		102		70-130	0		30
1,2,4-Trimethylbenzene	102		101		70-130	1		30
1,4-Dioxane	92		97		65-136	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	92		93		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	92		92		70-130

SEMIVOLATILES

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 10/12/23 15:15
 Analyst: MG
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 10/11/23 10:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	200	25.	1
Hexachlorobenzene	ND		ug/kg	150	27.	1
Fluoranthene	540		ug/kg	150	28.	1
Naphthalene	38	J	ug/kg	240	30.	1
Benzo(a)anthracene	280		ug/kg	150	27.	1
Benzo(a)pyrene	270		ug/kg	200	60.	1
Benzo(b)fluoranthene	380		ug/kg	150	41.	1
Benzo(k)fluoranthene	120	J	ug/kg	150	39.	1
Chrysene	320		ug/kg	150	25.	1
Acenaphthylene	76	J	ug/kg	200	38.	1
Anthracene	96	J	ug/kg	150	48.	1
Benzo(ghi)perylene	180	J	ug/kg	200	29.	1
Fluorene	36	J	ug/kg	240	24.	1
Phenanthrene	300		ug/kg	150	30.	1
Dibenzo(a,h)anthracene	43	J	ug/kg	150	28.	1
Indeno(1,2,3-cd)pyrene	190	J	ug/kg	200	34.	1
Pyrene	450		ug/kg	150	24.	1
Dibenzofuran	ND		ug/kg	240	23.	1
Pentachlorophenol	ND		ug/kg	200	54.	1
Phenol	ND		ug/kg	240	37.	1
2-Methylphenol	ND		ug/kg	240	38.	1
3-Methylphenol/4-Methylphenol	38	J	ug/kg	350	38.	1
1,4-Dioxane	ND		ug/kg	37	11.	1

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	46		18-120

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 144,1633
 Analytical Date: 10/18/23 10:37
 Analyst: AC
 Percent Solids: 68%

Extraction Method: EPA 1633
 Extraction Date: 10/11/23 13:35
 Cleanup Method: EPA 1633
 Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.214	J	ng/g	0.801	0.051	1
Perfluoropentanoic Acid (PFPeA)	0.092	J	ng/g	0.401	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	0.066	J	ng/g	0.200	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.801	0.081	1
Perfluorohexanoic Acid (PFHxA)	0.105	J	ng/g	0.200	0.047	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023	1
Perfluoroheptanoic Acid (PFHpA)	0.091	J	ng/g	0.200	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059	1
Perfluorooctanoic Acid (PFOA)	0.494		ng/g	0.200	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.801	0.280	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037	1
Perfluorononanoic Acid (PFNA)	0.103	J	ng/g	0.200	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	0.734		ng/g	0.200	0.079	1
Perfluorodecanoic Acid (PFDA)	0.106	J	ng/g	0.200	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.801	0.388	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.043	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100	1
Perfluoroundecanoic Acid (PFUnA)	0.062	J	ng/g	0.200	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.801	0.099	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.801	0.147	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.039	1

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
Client ID: SOUTHTOWN-001
Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
Date Received: 10/04/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.801	0.196	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.801	0.167	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.251	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.511	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.401	0.041	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.401	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.401	0.083	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.401	0.095	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.144	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.01	0.506	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.01	1.76	1

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	73		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	77		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	73		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	92		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	75		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	68		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	73		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	74		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	66		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	73		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	76		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	68		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	130		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	87		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	71		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	57		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	99		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	74		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	62		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	63		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	47		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	48		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	56		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	51		20-150

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/12/23 12:30
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 10/11/23 10:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1838372-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	100	19.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Dibenzofuran	ND		ug/kg	170	16.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/12/23 12:30
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 10/11/23 10:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1838372-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	71		18-120

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 10/18/23 09:59
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 10/11/23 12:43
Cleanup Method: EPA 1633
Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1838450-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.050
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.056
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.081
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.280
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.387
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.098
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.146
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 10/18/23 09:59
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 10/11/23 12:43
Cleanup Method: EPA 1633
Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1838450-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.196
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.167
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.510
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.041
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.031
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.083
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.095
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.144
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	0.505
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	1.76

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 10/18/23 09:59
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 10/11/23 12:43
Cleanup Method: EPA 1633
Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1838450-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	80		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	79		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	85		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	75		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	85		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	86		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	84		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	62		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	77		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	75		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	71		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	52		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	51		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	54		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	55		20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1838372-2 WG1838372-3								
Acenaphthene	74		74		31-137	0		50
Hexachlorobenzene	79		78		40-140	1		50
Fluoranthene	82		78		40-140	5		50
Naphthalene	79		80		40-140	1		50
Benzo(a)anthracene	82		79		40-140	4		50
Benzo(a)pyrene	87		81		40-140	7		50
Benzo(b)fluoranthene	88		77		40-140	13		50
Benzo(k)fluoranthene	83		83		40-140	0		50
Chrysene	86		82		40-140	5		50
Acenaphthylene	79		76		40-140	4		50
Anthracene	84		80		40-140	5		50
Benzo(ghi)perylene	84		82		40-140	2		50
Fluorene	78		76		40-140	3		50
Phenanthrene	82		79		40-140	4		50
Dibenzo(a,h)anthracene	82		80		40-140	2		50
Indeno(1,2,3-cd)pyrene	82		81		40-140	1		50
Pyrene	84		78		35-142	7		50
Dibenzofuran	80		80		40-140	0		50
Pentachlorophenol	63		61		17-109	3		50
Phenol	77		75		26-90	3		50
2-Methylphenol	80		79		30-130	1		50
3-Methylphenol/4-Methylphenol	80		78		30-130	3		50
1,4-Dioxane	60		60		40-140	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1838372-2 WG1838372-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	90		90		25-120
Phenol-d6	83		82		10-120
Nitrobenzene-d5	74		74		23-120
2-Fluorobiphenyl	75		74		30-120
2,4,6-Tribromophenol	84		81		10-136
4-Terphenyl-d14	84		79		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Low Level LCS	Qual	Low Level LCSD	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery		%Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1838450-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	107		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	104		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	111		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	104		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	105		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	105		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	120		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	98		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	97		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	115		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	110		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	107		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	100		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	112		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	96		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	88		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	94		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	102		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	82		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	102		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	112		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	116		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Low Level LCS		Low Level LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1838450-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTTrDA)	82		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	112		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	107		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	126		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	44		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	95		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	72		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	88		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	100		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	104		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	114		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	106		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	114		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	128		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	78		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	124		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	104		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	80		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Low Level LCS		Low Level LCSD		%Recovery Limits		RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	RPD
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1838450-2 LOW LEVEL								

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	87				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	78				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	87				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	71				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	69				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	80				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	88				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	69				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	72				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	70				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	60				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	76				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	54				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	33				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	74				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	45				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	39				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	45				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	44				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1838450-3								
Perfluorobutanoic Acid (PFBA)	112		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	107		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	107		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	113		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	109		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	114		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	111		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	107		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	111		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	112		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	103		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	109		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	96		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	114		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	106		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	99		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	114		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	105		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	108		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	110		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1838450-3								
Perfluorotridecanoic Acid (PFTTrDA)	118		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTTeDA)	118		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	106		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	124		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	89		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	122		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUS)	112		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	108		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	105		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	114		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	106		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	120		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	117		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	121		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	69		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	134		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	104		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	98		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits			Qual	Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1838450-3									

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	89				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	85				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	81				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	83				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	82				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	81				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	86				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	86				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	79				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	74				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	67				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	76				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	70				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	62				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	74				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	55				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	55				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	56				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	58				20-150

PCBS

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 10/12/23 12:10
 Analyst: AD
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 10/11/23 12:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/12/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	70.5	6.26	1	A
Aroclor 1221	ND		ug/kg	70.5	7.07	1	A
Aroclor 1232	ND		ug/kg	70.5	15.0	1	A
Aroclor 1242	ND		ug/kg	70.5	9.51	1	A
Aroclor 1248	ND		ug/kg	70.5	10.6	1	A
Aroclor 1254	26.4	J	ug/kg	70.5	7.72	1	B
Aroclor 1260	30.1	J	ug/kg	70.5	13.0	1	B
Aroclor 1262	ND		ug/kg	70.5	8.96	1	A
Aroclor 1268	11.1	J	ug/kg	70.5	7.31	1	A
PCBs, Total	67.6	J	ug/kg	70.5	6.26	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/12/23 11:49
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 10/11/23 12:29
Cleanup Method: EPA 3665A
Cleanup Date: 10/12/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1838439-1						
Aroclor 1016	ND		ug/kg	48.0	4.26	A
Aroclor 1221	ND		ug/kg	48.0	4.81	A
Aroclor 1232	ND		ug/kg	48.0	10.2	A
Aroclor 1242	ND		ug/kg	48.0	6.47	A
Aroclor 1248	ND		ug/kg	48.0	7.20	A
Aroclor 1254	ND		ug/kg	48.0	5.25	A
Aroclor 1260	ND		ug/kg	48.0	8.87	A
Aroclor 1262	ND		ug/kg	48.0	6.09	A
Aroclor 1268	ND		ug/kg	48.0	4.97	A
PCBs, Total	ND		ug/kg	48.0	4.26	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	76		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1838439-2 WG1838439-3									
Aroclor 1016	70		78		40-140	11		50	A
Aroclor 1260	63		71		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		78		30-150	A
Decachlorobiphenyl	70		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		76		30-150	B
Decachlorobiphenyl	68		78		30-150	B

PESTICIDES

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 10/12/23 13:14
 Analyst: JAG
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 10/11/23 07:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/12/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/12/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.22	0.435	1	A
Lindane	ND		ug/kg	0.925	0.413	1	A
Alpha-BHC	ND		ug/kg	0.925	0.263	1	A
Beta-BHC	ND		ug/kg	2.22	0.841	1	A
Heptachlor	ND		ug/kg	1.11	0.497	1	A
Aldrin	ND		ug/kg	2.22	0.781	1	A
Endrin	ND		ug/kg	0.925	0.379	1	A
Dieldrin	ND		ug/kg	1.39	0.694	1	A
4,4'-DDE	15.2	P	ug/kg	2.22	0.513	1	B
4,4'-DDD	ND		ug/kg	2.22	0.792	1	A
4,4'-DDT	8.60	P	ug/kg	2.22	1.78	1	B
Endosulfan I	ND		ug/kg	2.22	0.524	1	A
Endosulfan II	ND		ug/kg	2.22	0.742	1	A
Endosulfan sulfate	ND		ug/kg	0.925	0.440	1	A
cis-Chlordane	ND		ug/kg	2.77	0.773	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	27	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 10/06/23 11:00
 Analyst: MMG
 Percent Solids: 68%
 Methylation Date: 10/06/23 02:00

Extraction Method: EPA 8151A
 Extraction Date: 10/05/23 09:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	242	6.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	69		30-150	A
DCAA	68		30-150	B

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/05/23 09:29
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 10/04/23 10:52

Methylation Date: 10/05/23 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1835472-1						
2,4,5-TP (Silvex)	ND		ug/kg	166	4.41	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	87		30-150	B

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/12/23 00:56
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/11/23 07:36
Cleanup Method: EPA 3620B
Cleanup Date: 10/11/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1838254-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.651	0.291	A
Alpha-BHC	ND		ug/kg	0.651	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.781	0.350	A
Aldrin	ND		ug/kg	1.56	0.550	A
Endrin	ND		ug/kg	0.651	0.267	A
Dieldrin	ND		ug/kg	0.976	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.557	A
4,4'-DDT	ND		ug/kg	1.56	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.522	A
Endosulfan sulfate	ND		ug/kg	0.651	0.310	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1835472-2 WG1835472-3									
2,4,5-TP (Silvex)	92		82		30-150	11		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	80		74		30-150	A
DCAA	93		84		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1838254-2 WG1838254-3									
Delta-BHC	72		77		30-150	7		30	A
Lindane	65		69		30-150	6		30	A
Alpha-BHC	65		68		30-150	5		30	A
Beta-BHC	74		77		30-150	4		30	A
Heptachlor	65		68		30-150	5		30	A
Aldrin	64		67		30-150	5		30	A
Endrin	68		73		30-150	7		30	A
Dieldrin	73		79		30-150	8		30	A
4,4'-DDE	67		72		30-150	7		30	A
4,4'-DDD	74		79		30-150	7		30	A
4,4'-DDT	70		76		30-150	8		30	A
Endosulfan I	66		70		30-150	6		30	A
Endosulfan II	68		74		30-150	8		30	A
Endosulfan sulfate	66		71		30-150	7		30	A
cis-Chlordane	60		64		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		56		30-150	A
Decachlorobiphenyl	61		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		67		30-150	B
Decachlorobiphenyl	74		80		30-150	B



METALS

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
 Client ID: SOUTHTOWN-001
 Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
 Date Received: 10/04/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9420		mg/kg	11.3	3.06	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	5.67	0.431	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Arsenic, Total	9.68		mg/kg	1.13	0.236	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Barium, Total	78.6		mg/kg	1.13	0.197	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.602		mg/kg	0.567	0.037	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.520	J	mg/kg	1.13	0.111	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Calcium, Total	16200		mg/kg	11.3	3.97	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Chromium, Total	17.6		mg/kg	1.13	0.109	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Cobalt, Total	7.81		mg/kg	2.27	0.188	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Copper, Total	28.4		mg/kg	1.13	0.293	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Iron, Total	19700		mg/kg	5.67	1.02	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Lead, Total	52.6		mg/kg	5.67	0.304	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Magnesium, Total	4620		mg/kg	11.3	1.75	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Manganese, Total	504		mg/kg	1.13	0.180	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Mercury, Total	0.087	J	mg/kg	0.103	0.067	1	10/07/23 00:13	10/07/23 10:57	EPA 7471B	1,7471B	GMG
Nickel, Total	20.3		mg/kg	2.84	0.275	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Potassium, Total	1110		mg/kg	284	16.3	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Selenium, Total	0.696	J	mg/kg	2.27	0.293	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.567	0.321	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Sodium, Total	98.5	J	mg/kg	227	3.57	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Thallium, Total	0.375	J	mg/kg	2.27	0.357	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Vanadium, Total	19.5		mg/kg	1.13	0.230	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
Zinc, Total	116		mg/kg	5.67	0.332	2	10/06/23 23:32	10/09/23 15:23	EPA 3050B	1,6010D	AMW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	17.0	J	mg/kg	1.17	0.235	1		10/15/23 14:22	NA	107,-	



Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

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): 01 Batch: WG1836600-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Antimony, Total	ND	mg/kg	2.00	0.152	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Arsenic, Total	ND	mg/kg	0.400	0.083	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Barium, Total	ND	mg/kg	0.400	0.070	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Beryllium, Total	ND	mg/kg	0.200	0.013	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Cadmium, Total	ND	mg/kg	0.400	0.039	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Calcium, Total	ND	mg/kg	4.00	1.40	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Chromium, Total	ND	mg/kg	0.400	0.038	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Cobalt, Total	ND	mg/kg	0.800	0.066	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Copper, Total	ND	mg/kg	0.400	0.103	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Iron, Total	ND	mg/kg	2.00	0.361	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Lead, Total	ND	mg/kg	2.00	0.107	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Magnesium, Total	ND	mg/kg	4.00	0.616	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Manganese, Total	ND	mg/kg	0.400	0.064	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Nickel, Total	ND	mg/kg	1.00	0.097	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Potassium, Total	ND	mg/kg	100	5.76	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Selenium, Total	ND	mg/kg	0.800	0.103	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Silver, Total	ND	mg/kg	0.200	0.113	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Sodium, Total	ND	mg/kg	80.0	1.26	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Thallium, Total	ND	mg/kg	0.800	0.126	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Vanadium, Total	ND	mg/kg	0.400	0.081	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW
Zinc, Total	ND	mg/kg	2.00	0.117	1	10/06/23 23:32	10/09/23 14:28	1,6010D	AMW

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): 01 Batch: WG1836603-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	10/07/23 00:13	10/07/23 10:20	1,7471B	GMG



Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1836600-2 SRM Lot Number: D119-540								
Aluminum, Total	80		-		48-152	-		
Antimony, Total	147		-		10-190	-		
Arsenic, Total	100		-		83-117	-		
Barium, Total	101		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	94		-		82-117	-		
Calcium, Total	118		-		81-118	-		
Chromium, Total	98		-		82-119	-		
Cobalt, Total	98		-		83-117	-		
Copper, Total	102		-		84-116	-		
Iron, Total	106		-		60-140	-		
Lead, Total	100		-		82-118	-		
Magnesium, Total	96		-		76-124	-		
Manganese, Total	103		-		82-118	-		
Nickel, Total	99		-		82-117	-		
Potassium, Total	93		-		70-130	-		
Selenium, Total	102		-		79-121	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	108		-		74-126	-		
Thallium, Total	100		-		81-119	-		
Vanadium, Total	95		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1836600-2 SRM Lot Number: D119-540					
Zinc, Total	106	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1836603-2 SRM Lot Number: D119-540					
Mercury, Total	94	-	73-127	-	

Matrix Spike Analysis Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1836600-3 QC Sample: L2358935-01 Client ID: MS Sample												
Aluminum, Total	7790	173	8160	214	Q	-	-		75-125	-		20
Antimony, Total	ND	43.2	45.7	106		-	-		75-125	-		20
Arsenic, Total	4.91	10.4	16.2	109		-	-		75-125	-		20
Barium, Total	79.1	173	234	90		-	-		75-125	-		20
Beryllium, Total	0.383J	4.32	4.79	111		-	-		75-125	-		20
Cadmium, Total	ND	4.58	4.52	99		-	-		75-125	-		20
Calcium, Total	20600	864	12900	0	Q	-	-		75-125	-		20
Chromium, Total	20.6	17.3	37.0	95		-	-		75-125	-		20
Cobalt, Total	6.02	43.2	48.3	98		-	-		75-125	-		20
Copper, Total	31.9	21.6	50.3	85		-	-		75-125	-		20
Iron, Total	14300	86.4	14300	0	Q	-	-		75-125	-		20
Lead, Total	27.3	45.8	79.8	115		-	-		75-125	-		20
Magnesium, Total	7150	864	5010	0	Q	-	-		75-125	-		20
Manganese, Total	220	43.2	256	83		-	-		75-125	-		20
Nickel, Total	13.8	43.2	55.2	96		-	-		75-125	-		20
Potassium, Total	2070	864	2610	62	Q	-	-		75-125	-		20
Selenium, Total	0.258J	10.4	11.8	114		-	-		75-125	-		20
Silver, Total	ND	4.32	4.78	111		-	-		75-125	-		20
Sodium, Total	205	864	1140	108		-	-		75-125	-		20
Thallium, Total	0.887J	10.4	11.4	110		-	-		75-125	-		20
Vanadium, Total	31.3	43.2	69.6	89		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

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): 01 QC Batch ID: WG1836600-3 QC Sample: L2358935-01 Client ID: MS Sample									
Zinc, Total	52.7	43.2	95.2	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1836603-3 QC Sample: L2358935-01 Client ID: MS Sample									
Mercury, Total	0.059J	1.49	1.57	105	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1836600-4 QC Sample: L2358935-01 Client ID: DUP Sample						
Aluminum, Total	7790	7320	mg/kg	6		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	4.91	5.35	mg/kg	9		20
Barium, Total	79.1	67.0	mg/kg	17		20
Beryllium, Total	0.383J	0.329J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	20600	11100	mg/kg	60	Q	20
Chromium, Total	20.6	21.3	mg/kg	3		20
Cobalt, Total	6.02	6.07	mg/kg	1		20
Copper, Total	31.9	39.8	mg/kg	22	Q	20
Iron, Total	14300	13600	mg/kg	5		20
Lead, Total	27.3	30.2	mg/kg	10		20
Magnesium, Total	7150	3870	mg/kg	60	Q	20
Manganese, Total	220	196	mg/kg	12		20
Nickel, Total	13.8	15.9	mg/kg	14		20
Potassium, Total	2070	1880	mg/kg	10		20
Selenium, Total	0.258J	0.314J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	205	196	mg/kg	4		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1836600-4 QC Sample: L2358935-01 Client ID: DUP Sample					
Thallium, Total	0.887J	0.783J	mg/kg	NC	20
Vanadium, Total	31.3	26.6	mg/kg	16	20
Zinc, Total	52.7	55.1	mg/kg	4	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1836603-4 QC Sample: L2358935-01 Client ID: DUP Sample					
Mercury, Total	0.059J	0.087	mg/kg	NC	20

Project Name: COBEY
Project Number: Not Specified

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1836600-6 QC Sample: L2358935-01 Client ID: DUP Sample						
Aluminum, Total	7790	8190	mg/kg	5		20
Barium, Total	79.1	84.8	mg/kg	7		20
Calcium, Total	20600	22600	mg/kg	10		20
Copper, Total	31.9	32.9	mg/kg	3		20
Iron, Total	14300	16600	mg/kg	16		20
Magnesium, Total	7150	7680	mg/kg	7		20
Manganese, Total	220	241	mg/kg	10		20
Vanadium, Total	31.3	33.5	mg/kg	7		20

INORGANICS & MISCELLANEOUS

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358446-01
Client ID: SOUTHTOWN-001
Sample Location: 1 SHIP CANAL PKWY, BUFFALO, NY

Date Collected: 10/04/23 10:20
Date Received: 10/04/23
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	68.1		%	0.100	NA	1	-	10/05/23 09:03	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.4	0.30	1	10/11/23 13:00	10/11/23 16:56	1,9010C/9012B	JER
Chromium, Hexavalent	0.646	J	mg/kg	1.17	0.235	1	10/12/23 21:10	10/15/23 14:22	1,7196A	DTH



Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

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): 01 Batch: WG1838378-1									
Cyanide, Total	ND	mg/kg	0.91	0.19	1	10/11/23 13:00	10/11/23 16:47	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1839156-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	10/12/23 21:10	10/15/23 14:22	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1838378-2 WG1838378-3								
Cyanide, Total	132	Q	137	Q	80-120	4		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1839156-2								
Chromium, Hexavalent	77	Q	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MS Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1838378-4 WG1838378-5 QC Sample: L2359212-01 Client ID: MS Sample												
Cyanide, Total	36	12	47	92		68	260	Q	75-125	37	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1839156-4 QC Sample: L2358446-01 Client ID: SOUTHTOWN-001												
Chromium, Hexavalent	0.646J	1600	1210	76		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1835903-1 QC Sample: L2358351-01 Client ID: DUP Sample						
Solids, Total	82.1	83.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1839156-6 QC Sample: L2358446-01 Client ID: SOUTHTOWN-001						
Chromium, Hexavalent	0.646J	0.778J	mg/kg	NC		20

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446**Report Date:** 10/18/23**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(*)
L2358446-01A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW-R2(14)
L2358446-01B	Vial water preserved	A	NA		2.6	Y	Absent	05-OCT-23 08:12	NYTCL-8260HLW-R2(14)
L2358446-01C	Vial water preserved	A	NA		2.6	Y	Absent	05-OCT-23 08:12	NYTCL-8260HLW-R2(14)
L2358446-01D	Plastic 120ml unpreserved	A	NA		2.6	Y	Absent		TS(7)
L2358446-01E	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2358446-01F	Vial Large Septa unpreserved (4oz)	A	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2358446-01G	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2358446-01H	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2358446-01I	Plastic 8oz unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(90)
L2358446-01J	Glass 500ml/16oz unpreserved	A	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

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/PFTeDA	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 (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	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
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
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/PFOSA	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-Chloroeicosafuoro-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	PFEEASA	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: COBEY

Project Number:

Serial_No:10182317:03
Lab Number: L2358446

Report Date: 10/18/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

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: COBEY
Project Number: Not Specified

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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: COBEY
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.
- 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: COBEY
Project Number: Not Specified

Lab Number: L2358446
Report Date: 10/18/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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

EPA 625.1: alpha-Terpineol

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

EPA 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 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 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).

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 Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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 1	Date Rec'd in Lab 10/5/23	ALPHA Job # 22358446																																																																																																																																																																																													
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A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the width of the page. Two other lines are diagonal, starting from the bottom left and extending towards the top right, intersecting the horizontal line.