



INVENTUM ENGINEERING

Secondary Containment Closure Construction Completion Report

Former Light Oil Area Tanks ST03, ST04, and ST05



Riverview Innovation & Technology Campus
Brownfield Cleanup Program Site No. C915353

3875 River Road
Tonawanda, New York 14150

October 21, 2025

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Background

The Former Light Oil Area (FLOA) secondary containment was located in the former production area of the BCP site. The secondary containment was constructed of reinforced concrete and shared a portion of the western wall with the multistory Former Light Oil Building. The secondary containment around these tanks was originally constructed for three pentane tanks. ST03 and ST04 were repurposed pentane tanks that were used to hold light oil or wash oil (ST03) and diesel fuel (ST04). Storage Tank ST05 was a gasoline tank. During implementation of the Aboveground Storage Tank Management Interim Remedial Measures Work Plan (“AST Work Plan”) (Inventum, 2021) Storage Tank ST03 was determined to be empty. During implementation of the Chemical Bulk Storage (CBS) and Petroleum Bulk Storage (PBS) Tank Closure Work Plan (“CBS PBS Work Plan”) (Inventum, 2021) it was determined that Storage Tank ST04 contained less than one foot of a reddish petroleum liquid (appearance was of degrading diesel fuel) and Storage Tank ST05 had stored gasoline and was empty.

The management and closure of Storage Tank ST03 is documented under the Aboveground Storage Tank Management Construction Completion Report (“AST CCR” [Inventum, August 2025]).

ST04 and ST05 were Petroleum Bulk Storage (PBS) tanks registered with the New York State Department of Environmental Conservation (NYSDEC). The Management, closure, and contents disposal or recycling of ST04 and ST05 is documented under the Draft Chemical Bulk Storage (CBS) and Petroleum Bulk Storage (PBS) Tank Closure Construction Completion Report (“CBS PBS CCR” [Inventum, August 2025]).

All tanks and piping were removed from the Former Light Oil secondary containment in accordance with the approved AST and CBS PBS Work Plans by December 2021. The exterior coating of Storage Tanks ST03 and ST04 contained asbestos. The exterior coating was chipped and flaking, with paint chips observed on the floor of the secondary containment. The containment was scraped with a flat-bladed skidsteer bucket and hand tools. The containment debris consisted of coke breeze, organics, and detritus that had accumulated over years of neglect. One 30-yard roll-off dumpster containing 13.2 tons of consolidated secondary containment debris was disposed as asbestos containing material (ACM) at Modern Landfill on December 16, 2021. Disposal of the containment material is documented in the ST04 closure report in the CBS PBS CCR.

Inspection Summary

The Former Light Oil Area secondary containment was a reinforced concrete structure 75-foot long, 35-foot wide, and with a 2,600 square foot (nominal) slab. Of the 75-foot length on the west side of the containment, approximately 40 feet shared a common wall with the multistory Former Light Oil Area building. One sump with a solid bottom was located on the east side of the containment and was 70-inches long, 65-inches wide, and 36-inches deep.

The concrete containment was in generally good condition. Precipitation accumulated within the containment. Some vegetative growth including phragmites on the south end and moss on the west edge of the containment were noted. No cracks or holes were observed in the side walls, floor, or sump. Areas of chipped concrete were observed on the upper edges of the containment wall (Photograph No.’s 4 and 5).

The containment was scraped clean immediately after the final tank, ST03, was removed in December 2021. The containment and sump were power washed in September 2022 in preparation for concrete coring.



All wash water generated during cleaning was pumped to and treated through the onsite groundwater treatment system and discharged to the Town of Tonawanda POTW.

The secondary containment was removed using heavy equipment in January 2024. The concrete debris was stockpiled north of the containment area, pulverized, and crushed.

Sampling

Both the concrete and the underlying fill were sampled and analyzed.

Concrete Core Sampling

One concrete core sample was collected from the floor of the secondary containment near the sump (see Figure 2). The concrete sample was analyzed for:

- TCL Volatile Organic Compounds (VOCs) [8260]
- TCL Semi-Volatile Organic Compounds (SVOCs) [8270]
- Toxicity Characteristic Leaching Procedure or TCLP, VOCs and SVOCs.

The sample results were compared to 6 NYCRR Part 375 Commercial Soil Cleanup Objectives (SCOs) and EPA TCLP standards.

The concrete sample results did not have any concentrations of VOCs that exceeded the Commercial SCOs. The sample results included one SVOC, Benzo(A)Pyrene, that exceeded the Commercial SCO concentration (1,870 ug/kg vs 1,000 ug/kg). TCLP leachate concentrations of VOCs and SVOCs were not detected. Analytical data for the concrete core sample is provided in Table 1.

Sub-Slab Fill Sampling

Six sub-slab fill samples were collected below the removed secondary containment. The flooded conditions in the Former Light Oil Area posed a safety concern and limited direct access for sampling. Samples were collected using a hydraulic excavator at the locations directed by Inventum personnel. The samples were obtained from material collected in an excavator bucket.

Samples were collected from the fill at the fill-clay interface. The fill was wet and consisted of bedding stone and coke breeze over a layer of soft, grey-to-black silty clay with some fine gravel. Stiff, damp, red clay typical of the site was observed between 4 and 6 feet below surrounding ground surface. Samples were screened with a photoionization detector (PiD) and readings ranged from 2.0 to 3.8 parts per million (ppm) except for sample location 03 (center of containment) which had a reading of 9.2 ppm.

Fill samples were collected from below former Tank ST03, the eastern sump, the center of the containment (highest PiD location), below former Tank ST04, below former Tank ST05, and from the west side of the containment near the Former Light Oil Building. The sampling locations are shown on Figure 2.

The fill samples were analyzed for:

- TCL VOCs [8260]
- TCL SVOCs [8270]
- Total Mercury [7471]
- TCLP VOCs, SVOCs, Metals, Pesticides, and Herbicides



- Corrosivity, Ignitability, and Reactivity
- PFAS (Sample Location 04, below former tank ST04)

Sample results were compared to Commercial SCOs and EPA TCLP standards. The sample collected from location 03, the center of the containment, had a concentration of benzene in the leachate that exceeded the TCLP standard (0.76 mg/L vs 0.5 mg/L) indicating the characteristic of toxicity for benzene. The six samples did not have any analyte concentrations that exceeded the Commercial SCOs. Analytical data for the sub-slab fill samples is provided in Table 2.

At the request of NYSDEC, an additional aqueous sample was collected from the water present in the excavation during concrete removal. During sample collection, it was noted that the water sample was dark grey in color, turbid, had a dull observable sheen, and had a slight sulfur-like odor that was detectable when the sample was placed in a container. The sample was collected from the northeastern corner of the excavation. The water sample was analyzed for:

- TCL VOCs [8260]
- TCL SVOCs [8270]
- Total Mercury [7470]
- Total Ammonia [350.1]
- Flashpoint and Corrosivity

Sample results were compared to Class GA NYS Ambient Water Quality Standards and Guidance Values. The water sample contained VOC concentrations of 1,2,4-trimethylbenzene, benzene, m,p-xylenes, o-xylene, styrene, and toluene that exceeded the standards. Of these VOCs, benzene was detected at the highest concentration of 2,000 ug/L (vs 1 ug/L Class GA standard).

The water sample contained SVOC concentrations of 2,4-dimethylphenol, 2-methylnaphthalene, 2-methylphenol, acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, indeno(1,2,3-c,d)pyrene, naphthalene, and pyrene. Of these SVOCs, naphthalene was detected at the highest concentration of 9,900 ug/L (vs 10 ug/L Class GA standard).

Mercury was detected at 0.15 mg/L (vs 0.0007 mg/L Class GA standard) and Ammonia was detected at 12.1 mg/L (vs 2 mg/L Class GA standard). The sample did not flash and had a pH of 10.5. The pH is likely attributed to the water being in contact with concrete and/or being proximal to the MW-BCP-05 solidification area where site fill was solidified with coke breeze and lime kiln dust (LKD) which has a basic pH (Solidification Work Plan, Inventum 2023). Analytical data for the water sample is provided in Table 3.

Sub-Slab Fill Management

Sub-slab fill sample 03 contained a benzene concentration that indicated the characteristic of the toxicity (Figure 2). Based on this result, the fill below the Former Light Oil Area secondary containment was managed in accordance with the approved Satellite Source Area Solidification Remedial Action Work Plan (Solidification RAWP) (Inventum, 2025). The fill was solidified with the addition of coke breeze and Portland cement to eliminate the characteristic of toxicity and mitigate mobility of the constituents that may impact shallow groundwater on site.



Concrete Management

The Former Light Oil Area secondary containment concrete was removed in January 2024. The concrete did not exhibit gross contamination and was crushed and stockpiled for potential reuse on site below the proposed cap. An estimated 750 cubic yards of concrete is stockpiled south of the Former Light Oil Area. A sample has not been collected from the pile, as a use has not yet been determined.

Community Air Monitoring Plan (CAMP)

Air monitoring was performed in accordance with the Community Air Monitoring Plan (CAMP) for all dates that work was completed. Daily summary graphs of particulate and volatile organic compound (VOC) monitoring are provided in Appendix C.

Work Completed	Dates
Cleaning	12/14/2021, 9/30/2022
Concrete Coring	11/8/2022
Secondary Containment Removal	1/24/2024, 1/25/2024, 1/26/2024*, 1/29/2024
Sub-Slab Fill Sampling	1/30/2024

*CAMP equipment was not deployed on January 26, 2024, due to precipitation and fog. These conditions interfere with the proper operation of the monitoring equipment, resulting in false readings and frequent alarms that are not representative of actual site conditions.

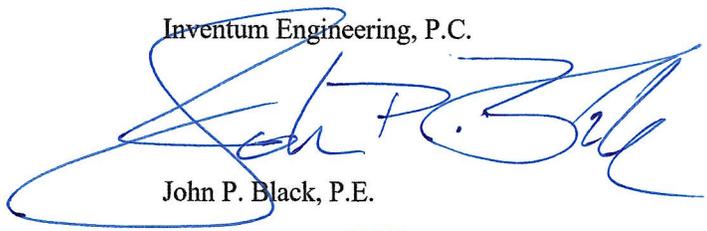


Engineering Certification

I, John P. Black, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Construction Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully Submitted,

Inventum Engineering, P.C.



John P. Black, P.E.

Date: October 21, 2025

License No: 062818-1



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Photographic Log



Client Name: RITC	Date Photo was Taken: 2021	Project: RITC
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Photo No. 1
Direction Photo Taken:

View is south (aerial).



Description:
The Former Light Oil Area secondary containment held "bullet tanks" ST03 and ST04 and former gasoline tank ST05. The containment was next to the multistory Former Light Oil Building.

Client Name: RITC	Date Photo was Taken: 12/8/2021	Project: RITC
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Photo No. 2
Direction Photo Taken:

View is southwest (aerial).



Description:
Tanks ST04 and ST05 have been removed. Tank ST03 is prepared to be removed.



Client Name: RITC	Date Photo was Taken: 12/14/2021	Project: RITC
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Photo No. 3
Direction Photo Taken:

View is northwest.

Description:

ST03, ST04, and ST05 have been removed from the containment.



Client Name: RITC	Date Photo was Taken: 12/14/2021	Project: RITC
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Photo No. 4
Direction Photo Taken:

View is west.

Description:

The secondary containment after the tanks are removed.

Note; standing water, organics, vegetation and detritus



Client Name: RITC	Date Photo was Taken: 12/14/2021	Project: RITC
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Photo No. 5
Direction Photo Taken:

View is northwest.



Description:

The containment ACM debris is consolidated for disposal.

Client Name: RITC	Date Photo was Taken: 12/15/2021	Project: RITC
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Photo No. 6
Direction Photo Taken:

View is northwest.



Description:

Containment debris has been removed. No cracks or holes are observed.



Client Name: RITC	Date Photo was Taken: 12/15/2021	Project: RITC
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Photo No. 7

Direction Photo Taken:

View is west.

Description:

The south end of the secondary containment after debris removal.



Client Name: RITC	Date Photo was Taken: 12/15/2021	Project: RITC
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Photo No. 8

Direction Photo Taken:

View is northwest.

Description:

The secondary containment after debris removal.



Client Name: RITC	Date Photo was Taken: 12/15/2021	Project: RITC
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Photo No. 9

Direction Photo Taken:

View is northwest.

Description:

The secondary containment sump.



Client Name: RITC	Date Photo was Taken: 12/15/2021	Project: RITC
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Photo No. 10

Direction Photo Taken:

View is northwest.

Description:

The sump and north end of the containment.



Client Name: RITC	Date Photo was Taken: 8/31/2022	Project: RITC
Photo No. 11 Direction Photo Taken: View is northwest (aerial).		
Description: The secondary containment after the Former Light Oil Building and associated common wall of the containment was removed.		
Client Name: RITC	Date Photo was Taken: 9/30/2022	Project: RITC
Photo No. 12 Direction Photo Taken: View is southwest.		
Description: The containment is cleaned again in preparation for concrete coring.		



Client Name: RITC	Date Photo was Taken: 1/24/2024	Project: RITC
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Photo No. 13
Direction Photo Taken:

View is east.



Description:

The secondary containment is removed.

Client Name: RITC	Date Photo was Taken: 1/24/2024	Project: RITC
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Photo No. 14
Direction Photo Taken:

View is north.



Description:

The secondary containment is removed.



Client Name: RITC	Date Photo was Taken: 1/25/2024	Project: RITC
Photo No. 15 Direction Photo Taken: View is southeast.		
Description: The secondary containment is removed.		
Client Name: RITC	Date Photo was Taken: 1/29/2024	Project: RITC
Photo No. 16 Direction Photo Taken: View is east.		
Description: The concrete is pulverized.		



Figures



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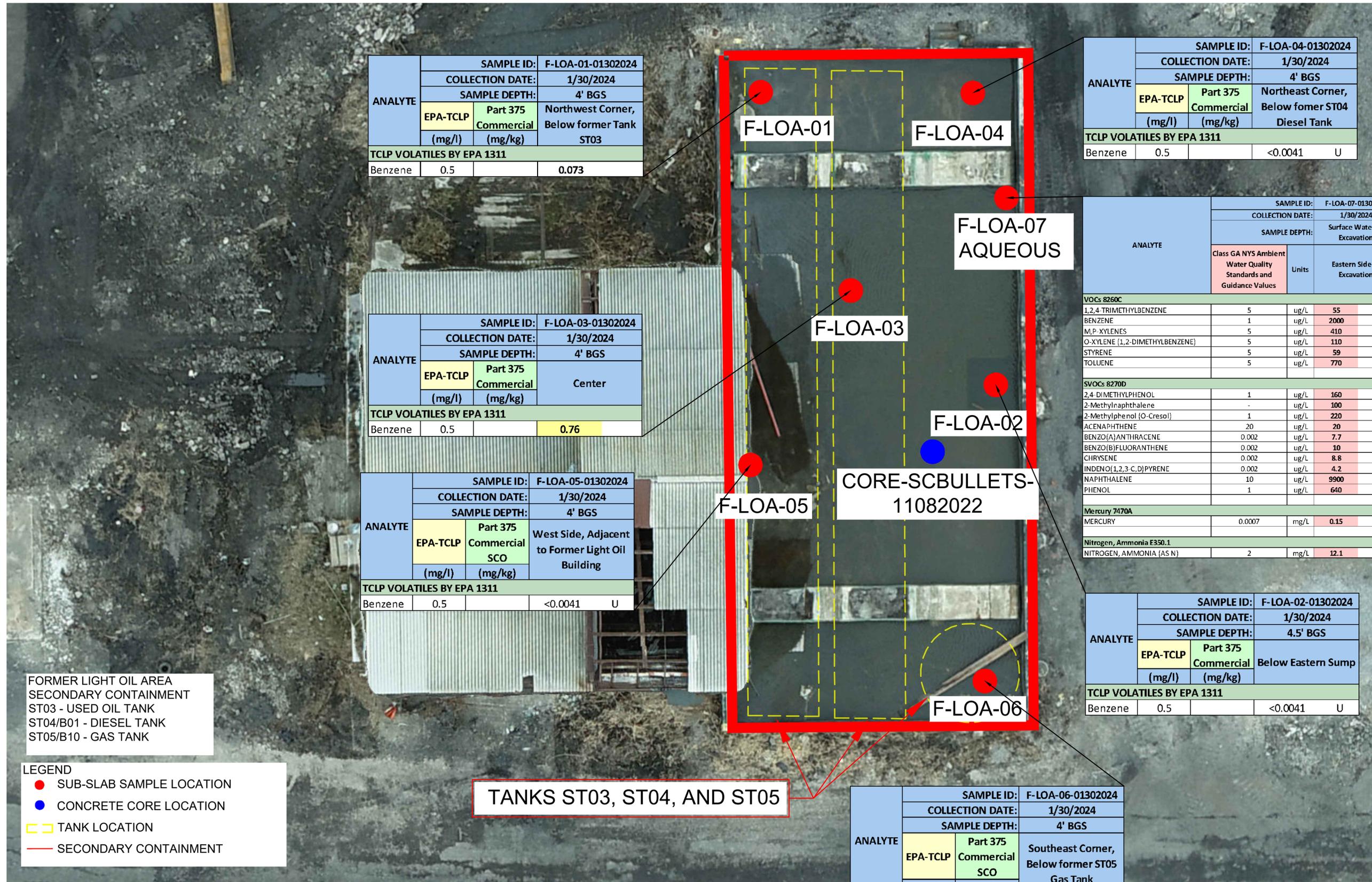
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FIGURE 1
 DRAWING NUMBER
 SECONDARY CONTAINMENT
 CLOSURE CCR



ANALYTE		SAMPLE ID: F-LOA-01-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: 4' BGS
EPA-TCLP (mg/l)	Part 375 Commercial (mg/kg)	Northwest Corner, Below former Tank ST03
TCLP VOLATILES BY EPA 1311		
Benzene	0.5	0.073

ANALYTE		SAMPLE ID: F-LOA-04-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: 4' BGS
EPA-TCLP (mg/l)	Part 375 Commercial (mg/kg)	Northeast Corner, Below former ST04 Diesel Tank
TCLP VOLATILES BY EPA 1311		
Benzene	0.5	<0.0041 U

ANALYTE		SAMPLE ID: F-LOA-03-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: 4' BGS
EPA-TCLP (mg/l)	Part 375 Commercial (mg/kg)	Center
TCLP VOLATILES BY EPA 1311		
Benzene	0.5	0.76

ANALYTE		SAMPLE ID: F-LOA-07-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: Surface Water in Excavation
Class GA NYS Ambient Water Quality Standards and Guidance Values		Units Eastern Side of Excavation
VOCs 8260C		
1,2,4-TRIMETHYLBENZENE	5	ug/L 55
BENZENE	1	ug/L 2000
M,P-XYLENES	5	ug/L 410
O-XYLENE (1,2-DIMETHYLBENZENE)	5	ug/L 110
STYRENE	5	ug/L 59
TOLUENE	5	ug/L 770
SVOCs 8270D		
2,4-DIMETHYLPHENOL	1	ug/L 160
2-Methylnaphthalene	-	ug/L 100
2-Methylphenol (O-Cresol)	1	ug/L 220 J
ACENAPHTHENE	20	ug/L 20 J
BENZO(A)ANTHRACENE	0.002	ug/L 7.7 J
BENZO(B)FLUORANTHENE	0.002	ug/L 10 J
CHRYSENE	0.002	ug/L 8.8 J
INDENO(1,2,3-C,D)PYRENE	0.002	ug/L 4.2 J
NAPHTHALENE	10	ug/L 9900
PHENOL	1	ug/L 640 J
Mercury 7470A		
MERCURY	0.0007	mg/L 0.15
Nitrogen, Ammonia E350.1		
NITROGEN, AMMONIA (AS N)	2	mg/L 12.1

ANALYTE		SAMPLE ID: F-LOA-05-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: 4' BGS
EPA-TCLP (mg/l)	Part 375 Commercial SCO (mg/kg)	West Side, Adjacent to Former Light Oil Building
TCLP VOLATILES BY EPA 1311		
Benzene	0.5	<0.0041 U

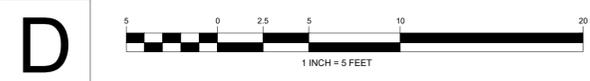
ANALYTE		SAMPLE ID: F-LOA-02-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: 4.5' BGS
EPA-TCLP (mg/l)	Part 375 Commercial (mg/kg)	Below Eastern Sump
TCLP VOLATILES BY EPA 1311		
Benzene	0.5	<0.0041 U

ANALYTE		SAMPLE ID: F-LOA-06-01302024
		COLLECTION DATE: 1/30/2024
		SAMPLE DEPTH: 4' BGS
EPA-TCLP (mg/l)	Part 375 Commercial SCO (mg/kg)	Southeast Corner, Below former ST05 Gas Tank
TCLP VOLATILES BY EPA 1311		
Benzene	0.5	0.019

FORMER LIGHT OIL AREA SECONDARY CONTAINMENT
 ST03 - USED OIL TANK
 ST04/B01 - DIESEL TANK
 ST05/B10 - GAS TANK

LEGEND
 ● SUB-SLAB SAMPLE LOCATION
 ● CONCRETE CORE LOCATION
 □ TANK LOCATION
 — SECONDARY CONTAINMENT

TANKS ST03, ST04, AND ST05



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FIGURE 2
 DRAWING NUMBER
 SECONDARY CONTAINMENT CLOSURE CCR

Tables





Table 1
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

Analytes	Part 375 SCOs	Units	CORE-SCBULLETS-11082022	
	Commercial		11/8/2022	
	Sample Date:		11/8/2022	
	Lab Report:		225421	
Location:		Secondary Containment Concrete Core ST03, ST04, ST05		
TCL VOCs (SW8260C)				
1,1,1-Trichloroethane (TCA)	500,000	ug/kg	<719	U
1,1,2,2-Tetrachloroethane		ug/kg	<719	U
1,1,2-Trichloroethane		ug/kg	<719	U
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/kg	<719	U
1,1-Dichloroethane	240,000	ug/kg	<719	U
1,1-Dichloroethene	500,000	ug/kg	<719	U
1,2,3-Trichlorobenzene		ug/kg	<1800	U
1,2,4-Trichlorobenzene		ug/kg	<1800	U
1,2,4-Trimethylbenzene	190,000	ug/kg	<719	U
1,2-Dibromo-3-Chloropropane		ug/kg	<3600	U
1,2-Dibromoethane (Ethylene Dibromide)		ug/kg	<719	U
1,2-Dichlorobenzene	500,000	ug/kg	<719	U
1,2-Dichloroethane	30,000	ug/kg	<719	U
1,2-Dichloropropane		ug/kg	<719	U
1,3-Dichlorobenzene	280,000	ug/kg	<719	U
1,3,5-Trimethylbenzene	190,000	ug/kg	<719	U
1,4-Dichlorobenzene	130,000	ug/kg	<719	U
1,4-Dioxane (P-Dioxane)	130,000	ug/kg	<3600	U
Methyl Ethyl Ketone (2-Butanone)	500,000	ug/kg	<3600	U
2-Hexanone		ug/kg	<1800	U
4-Isopropyltoluene/p-Isopropyltoluene	390,000	ug/kg	<719	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/kg	<1800	U
Acetone	500,000	ug/kg	<3600	U
Benzene	44,000	ug/kg	<719	U
Bromochloromethane		ug/kg	<1800	U
Bromodichloromethane		ug/kg	<719	U
Bromoform		ug/kg	<1800	U
Bromomethane		ug/kg	<719	U
Carbon Disulfide		ug/kg	<719	U
Carbon Tetrachloride	22,000	ug/kg	<719	U
Chlorobenzene	500,000	ug/kg	<719	U
Chloroethane		ug/kg	<719	U
Chloroform	350,000	ug/kg	<719	U
Chloromethane		ug/kg	<719	U
Cyclohexane		ug/kg	<3600	U
Dibromochloromethane		ug/kg	<719	U
Dichlorodifluoromethane		ug/kg	<719	U
Methylene Chloride	500,000	ug/kg	<1800	U
Ethylbenzene	390,000	ug/kg	<719	U
Isopropylbenzene (Cumene)		ug/kg	<719	U
Methyl Acetate		ug/kg	1540	
Methyl Tert-Butyl Ether	500,000	ug/kg	<719	U
Methylcyclohexane		ug/kg	<719	U
Naphthalene	500,000	ug/kg	8730	



Table 1
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

Analytes	Part 375 SCOs	Units	CORE-SCBULLETS-11082022	
	Commercial		11/8/2022	
	Sample Date:		11/8/2022	
	Lab Report:		225421	
Location:		Secondary Containment Concrete Core ST03, ST04, ST05		
n-Butylbenzene	390,000	ug/kg	<719	U
N-Propylbenzene	500,000	ug/kg	<719	U
Styrene		ug/kg	<1800	U
sec-Butylbenzene	500,000	ug/kg	<719	U
tert-Butylbenzene	500,000	ug/kg	<719	U
Tetrachloroethene	150,000	ug/kg	<719	U
Toluene	500,000	ug/kg	1070	
Trichloroethene	200,000	ug/kg	<719	U
Trichlorofluoromethane		ug/kg	<719	U
Vinyl Chloride	13,000	ug/kg	<719	U
Cis-1,2-Dichloroethylene	500,000	ug/kg	<719	U
Cis-1,3-Dichloropropene		ug/kg	<719	U
m,p-Xylene	500,000	ug/kg	873	
O-Xylene (1,2-Dimethylbenzene)	500,000	ug/kg	<719	U
Trans-1,2-Dichloroethene	500,000	ug/kg	<719	U
Trans-1,3-Dichloropropene		ug/kg	<719	U
Freon 113		ug/kg	<719	U
xylene, total	500,000	ug/kg	<719	U
TCL SVOCs (SW8270D)				
1,1-Biphenyl		ug/kg	<284	U
1,2,4-Trichlorobenzene		ug/kg	<284	U
1,2-Dichlorobenzene		ug/kg	<284	U
1,3-Dichlorobenzene		ug/kg	<284	U
1,4-Dichlorobenzene		ug/kg	<284	U
2,2-Oxybis (1-chloropropane)		ug/kg	<284	U
1,2,4,5-Tetrachlorobenzene		ug/kg	<284	U
2,3,4,6-Tetrachlorophenol		ug/kg	<284	U
2,4,5-Trichlorophenol		ug/kg	<284	U
2,4,6-Trichlorophenol		ug/kg	<284	U
2,4-Dichlorophenol		ug/kg	<284	U
2,4-Dimethylphenol		ug/kg	<284	U
2,4-Dinitrophenol		ug/kg	<1140	U
2,4-Dinitrotoluene		ug/kg	<284	U
2,6-Dinitrotoluene		ug/kg	<284	U
2-Chloronaphthalene		ug/kg	<284	U
2-Chlorophenol		ug/kg	<284	U
2-Methylnaphthalene		ug/kg	847	
2-Methylphenol (O-Cresol)	500,000	ug/kg	<284	U
2-Nitroaniline		ug/kg	<284	U
2-Nitrophenol		ug/kg	<284	U
3,3'-Dichlorobenzidine		ug/kg	<284	U
3&4 Methylphenol (Cresols, M & P)	500,000	ug/kg	<284	U
3-Nitroaniline		ug/kg	<284	U
4,6-Dinitro-2-Methylphenol		ug/kg	<380	U



Table 1
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

Analytes	Part 375 SCOs	Units	CORE-SCBULLETS-11082022	
	Commercial		11/8/2022	
	Sample Date:		11/8/2022	
	Lab Report:		225421	
Location:		Secondary Containment Concrete Core ST03, ST04, ST05		
4-Bromophenyl Phenyl Ether		ug/kg	<284	U
4-Chloro-3-Methylphenol		ug/kg	<284	U
4-Chloroaniline		ug/kg	<284	U
4-Chlorophenyl Phenyl Ether		ug/kg	<284	U
4-Nitroaniline		ug/kg	<284	U
4-Nitrophenol		ug/kg	<284	U
Acenaphthene	500,000	ug/kg	<284	U
Acenaphthylene	500,000	ug/kg	412	
Acetophenone		ug/kg	<284	U
Anthracene	500,000	ug/kg	1330	
Atrazine		ug/kg	<284	U
Benzo(A)Anthracene	5,600	ug/kg	3880	
Benzaldehyde		ug/kg	<284	U
Benzo(A)Pyrene	1,000	ug/kg	1870	
Benzo(B)Fluoranthene	5,600	ug/kg	3380	
Benzo(G,H,I)Perylene	500,000	ug/kg	2040	
Benzo(K)Fluoranthene	56,000	ug/kg	2380	
Bis(2-Chloroethoxy) Methane		ug/kg	<284	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/kg	<284	U
Bis(2-Ethylhexyl) Phthalate		ug/kg	<284	U
Benzyl Butyl Phthalate		ug/kg	<284	U
Caprolactam		ug/kg	<284	U
Carbazole		ug/kg	328	
Chrysene	56,000	ug/kg	2940	
Di-N-Butyl Phthalate		ug/kg	<284	U
Di-N-Octylphthalate		ug/kg	<284	U
Dibenz(A,H)Anthracene	560	ug/kg	487	
Dibenzofuran	350,000	ug/kg	617	
Diethyl Phthalate		ug/kg	<284	U
Dimethyl Phthalate		ug/kg	<284	U
Fluoranthene	500,000	ug/kg	10900	
Fluorene	500,000	ug/kg	450	
Hexachlorobenzene	6,000	ug/kg	<284	U
Hexachlorobutadiene		ug/kg	<284	U
Hexachlorocyclopentadiene		ug/kg	<1140	U
Hexachloroethane		ug/kg	<284	U
Indeno(1,2,3-C,D)Pyrene	5,600	ug/kg	2000	
Isophorone		ug/kg	539	
N-Nitrosodi-N-Propylamine		ug/kg	<284	U
N-Nitrosodiphenylamine		ug/kg	<284	U
Naphthalene	500,000	ug/kg	4660	
Nitrobenzene		ug/kg	<284	U
Pentachlorophenol	6,700	ug/kg	<568	U
Phenanthrene	500,000	ug/kg	9230	
Phenol	500,000	ug/kg	682	



Table 1
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

Analytes	Part 375 SCOs	Units	CORE-SCBULLETS-11082022	
	Commercial			
	Sample Date:		11/8/2022	
	Lab Report:		225421	
Location:		Secondary Containment Concrete Core ST03, ST04, ST05		
Pyrene	500,000	ug/kg	7360	
EPA TCLP				
TCLP Semi-Volatile Organics				
2,4,5-Trichlorophenol	400,000	ug/l	<40.0	U
2,4,6-Trichlorophenol	2,000	ug/l	<40.0	U
2,4-Dinitrotoluene	130	ug/l	<40.0	U
Cresols (as m,p,o-Cresol)	200,000	ug/l	<80.0	U
Hexachlorobenzene	130	ug/l	<40.0	U
Hexachlorobutadiene	500	ug/l	<40.0	U
Hexachloroethane	3,000	ug/l	<40.0	U
Nitrobenzene	2,000	ug/l	<40.0	U
Pentachlorophenol	100,000	ug/l	<80.0	U
Pyridine	5,000	ug/l	<40.0	U
TCLP Volatile Organics				
1,1-Dichloroethene	700	ug/l	<20.0	U
1,2-Dichloroethane	500	ug/l	<20.0	U
2-Butanone	200,000	ug/l	<100	U
Benzene	500	ug/l	<20.0	U
Carbon Tetrachloride	500	ug/l	<20.0	U
Chlorobenzene	100,000	ug/l	<20.0	U
Chloroform	6,000	ug/l	<20.0	U
Tetrachloroethene	700	ug/l	<20.0	U
Trichloroethene	500	ug/l	<20.0	U
Vinyl chloride	200	ug/l	<20.0	U
Qualifiers:				
U - Not detected at the reported detection limit for the sample.				
J - Presumptive evidence of compound.				
Bold - Compound is detected				
Red Highlight - Exceeds Part 375 SCOs for Industrial Criteria				
Green Highlight - Exceeds Part 375 SCOs for Commercial Criteria				



Table 2
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

ANALYTE	SAMPLE ID:		F-LOA-01-01302024	F-LOA-02-01302024	F-LOA-03-01302024	F-LOA-04-01302024	F-LOA-05-01302024	F-LOA-06-01302024
	LAB REPORT:		480-216732	480-216732	480-216732	480-216732	480-216732	480-216732
	COLLECTION DATE:		1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024
	SAMPLE DEPTH:		4' BGS	4.5' BGS	4' BGS	4' BGS	4' BGS	4' BGS
	LOCATION:		BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB
EPA-TCLP (mg/l)		Part 375 Commercial SCO (mg/kg)	Northwest Corner, Below former Tank ST03	Below Eastern Sump	Center	Northeast Corner, Below fomer ST04 Diesel Tank	West Side, Adjacent to Former Light Oil Building	Southeast Corner, Below former ST05 Gas Tank
VOLATILE ORGANICS BY GC/MS								
1,1,1-Trichloroethane		500	<0.019 U	<0.00032 U	<0.085 U	<0.013 U	<0.032 U	<0.016 U
1,1,2,2-Tetrachloroethane			<0.011 U	<0.00073 U	<0.050 U	<0.0078 U	<0.071 U	<0.0092 U
1,1,2-Trichloro-1,2,2-trifluoroethane			<0.034 U	<0.001 U	<0.150 U	<0.024 U	<0.001 U	<0.028 U
1,1,2-Trichloroethane			<0.014 U	<0.00058 U	<0.065 U	<0.010 U	<0.057 U	<0.012 U
1,1-Dichloroethane		240	<0.021 U	<0.00055 U	<0.095 U	<0.015 U	<0.054 U	<0.017 U
1,1-Dichloroethene		500	<0.024 U	<0.00055 U	<0.110 U	<0.017 U	<0.054 U	<0.020 U
1,2,4-Trichlorobenzene			<0.026 U	<0.0027 U	<0.120 U	<0.018 U	<0.027 U	<0.021 U
1,2,4-Trimethylbenzene		190	0.00087	<0.00086 U	<0.170 U	0.16	0.0036 J	0.31
1,2-Dibromo-3-chloropropane			<0.034 U	<0.0022 U	<0.150 U	<0.024 U	<0.0022 U	<0.028 U
1,2-Dibromoethane			<0.012 U	<0.00057 U	<0.054 U	<0.0084 U	<0.056 U	<0.0099 U
1,2-Dichlorobenzene		500	<0.017 U	<0.00035 U	<0.078 U	<0.012 U	<0.034 U	<0.014 U
1,2-Dichloroethane		30	<0.028 U	<0.00022 U	<0.130 U	<0.020 U	<0.022 U	<0.023 U
1,2-Dichloropropane			<0.011 JU	<0.0022 U	<0.050 U	<0.0078 U	<0.0022 U	<0.0091 U
1,3,5-TrimethylBenzene		190	0.057 J	<0.00029 U	<0.190 U	0.11	0.0035 J	0.19
1,3-Dichlorobenzene		280	<0.018 U	<0.00023 U	<0.082 U	<0.013 U	<0.023 U	<0.015 U
1,4-Dichlorobenzene		130	<0.0095 U	<0.00063 U	<0.043 U	<0.0067 U	<0.061 U	<0.0079 U
2-Butanone (MEK)		500	<0.200 U	0.01 J	<0.910 U	<0.140 U	0.003 J	<0.170 U
2-Hexanone			<0.140 U	<0.0022 U	<0.630 U	<0.098 U	<0.0022 U	<0.120 U
4-Methyl-2-pentanone			<0.022 U	<0.0015 U	<0.098 U	<0.015 U	<0.023 U	<0.018 U
Acetone		500	<0.280 U	0.052	<1.3 U	<0.200 U	0.04	<0.230 U
Benzene		44	2.4	0.0015 J	28	0.73	0.0035 J	1.6
Bromodichloromethane			<0.014 U	<0.0006 U	<0.061 U	<0.0096 U	<0.059 U	<0.011 U
Bromoform			<0.034 U	<0.0022 U	<0.150 U	<0.024 U	<0.0022 U	<0.028 U
Bromomethane			<0.015 U	<0.0004 U	<0.068 U	<0.011 U	<0.039 U	<0.012 U
Carbon disulfide			<0.031 U	<0.0022 U	<0.140 U	<0.022 U	<0.0022 U	<0.026 U
Carbon tetrachloride		22	<0.017 U	<0.00043 U	<0.078 U	<0.012 U	<0.042 U	<0.014 U
Chlorobenzene		500	<0.009 U	<0.00059 U	<0.041 U	<0.0063 U	<0.058 U	<0.0074 U
Chloroethane			<0.014 U	<0.001 U	<0.064 U	<0.010 U	<0.099 U	<0.012 U
Chloroform		350	<0.047 U	<0.00028 U	<0.210 U	<0.033 U	<0.027 U	<0.039 U
Chloromethane			<0.16 U	<0.00027 U	<0.073 U	<0.011 U	<0.027 U	0.014 J
cis-1,2-Dichloroethene		500	<0.019 U	<0.00057 U	<0.085 U	<0.013 U	<0.056 U	<0.016 U
cis-1,3-Dichloropropene			<0.016 U	<0.00064 U	<0.073 U	<0.011 U	<0.063 U	<0.013 U
Cyclohexane			<0.015 U	<0.00063 U	<0.068 U	<0.011 U	<0.061 U	<0.013 U
Dibromochloromethane			<0.033 U	<0.00057 U	<0.150 U	<0.023 U	<0.056 U	<0.027 U
Dichlorodifluoromethane			<0.030 U	<0.00037 U	<0.130 U	<0.021 U	<0.036 U	<0.025 U
Ethylbenzene		390	0.79	<0.00031 U	0.22 J	0.054	0.0016 J	0.087 J
Isopropylbenzene			<0.010 U	<0.00067 U	<0.046 U	<0.0072 U	<0.066 U	0.009
p/m-Xylene			1.2	<0.00075 U	0.62	0.5	0.019	0.83
Methyl Acetate			<0.032 U	<0.0027 U	<0.150 U	<0.023 U	<0.0027 U	0.081 J
Methyl tert butyl ether		500	<0.026 U	<0.00044 U	<0.120 U	<0.018 U	<0.043 U	<0.021 U
Methyl cyclohexane			<0.032 U	<0.00068 U	<0.140 U	<0.022 U	<0.067 U	<0.026 U
Methylene chloride		500	<0.013 U	<0.00021 U	<0.061 U	<0.0095 U	<0.002 U	<0.011 U
o-Xylene			0.47	0.00086 J	0.23 J	0.1	0.0076	0.19
Styrene			41 J	<0.00022 U	<0.074 U	0.072	<0.022	0.099
Tetrachloroethene		150	<0.0091 U	<0.0006 U	<0.041 U	<0.0064 U	<0.059 U	<0.0076 U
Toluene		500	0.28	0.00037 J	0.21 J	0.47	0.0031 J	0.73
trans-1,2-Dichloroethene		500	<0.016 U	<0.00046 U	<0.073 U	<0.011 U	<0.045 U	<0.013 U
trans-1,3-Dichloropropene			<0.0067 U	<0.002 U	<0.030 U	<0.0047 U	<0.0019 U	<0.0055 U
Trichloroethene		200	<0.019 U	<0.00098 U	<0.085 U	<0.013 U	<0.097 U	<0.026 U



Table 2
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

ANALYTE	SAMPLE ID:		F-LOA-01-01302024	F-LOA-02-01302024	F-LOA-03-01302024	F-LOA-04-01302024	F-LOA-05-01302024	F-LOA-06-01302024
	LAB REPORT:		480-216732	480-216732	480-216732	480-216732	480-216732	480-216732
	COLLECTION DATE:		1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024
	SAMPLE DEPTH:		4' BGS	4.5' BGS	4' BGS	4' BGS	4' BGS	4' BGS
	LOCATION:		BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB
EPA-TCLP (mg/l)		Part 375 Commercial SCO (mg/kg)	Northwest Corner, Below former Tank ST03	Below Eastern Sump	Center	Northeast Corner, Below fomer ST04 Diesel Tank	West Side, Adjacent to Former Light Oil Building	Southeast Corner, Below former ST05 Gas Tank
Trichlorofluoromethane			<0.032 U	<0.00042 U	<0.140 U	<0.022 U	<0.042 U	<0.019 U
Vinyl chloride		13	<0.023 U	<0.00055 U	<0.100 U	<0.016 U	<0.054 U	<0.019 U
Xylenes, Total		500	1.67	0.00086	0.85	0.6	0.0266	1.02
Total VOCs			46.19787	0.065	29.28	2.196	0.0849	4.140
SEMIVOLATILE ORGANICS BY GC/MS								
1,4-Dioxane		130	<0.077 U	<0.073 U	<0.078 U	<0.066 U	<0.070 U	<0.071 U
2,4,5-Trichlorophenol			<0.065 U	<0.061 U	<0.065 U	<0.056 U	<0.059 U	<0.059 U
2,4,6-Trichlorophenol			<0.048 U	<0.045 U	<0.048 U	<0.041 U	<0.043 U	<0.044 U
2,4-Dichlorophenol			<0.025 U	<0.024 U	<0.026 U	<0.022 U	<0.023 U	<0.023 U
2,4-Dimethylphenol			<0.058 U	<0.054 U	0.086 J	<0.050 U	<0.052 U	<0.053 U
2,4-Dinitrophenol			<1.100 U	<1.0 U	<1.1 U	<0.950 U	<1.000 U	<1.0 U
2,4-Dinitrotoluene			<0.049 U	<0.046 U	<0.050 U	<0.042 U	<0.045 U	<0.045 U
2,6-Dinitrotoluene			<0.028 U	<0.026 U	<0.028 U	<0.024 U	<0.025 U	<0.026 U
2-Chloronaphthalene			<0.039 U	<0.037 U	<0.040 U	<0.034 U	<0.036 U	<0.036 U
2-Chlorophenol			<0.044 U	<0.041 U	<0.044 U	<0.037 U	<0.039 U	<0.040 U
2-Methylnaphthalene			0.33 U	0.056 J	<0.048 U	0.24	0.16 J	0.082 J
2-Methylphenol		500	0.032 J	<0.026 U	0.059 J	0.035 J	<0.025 U	0.043 J
2-Nitroaniline			<0.035 U	<0.033 U	<0.035 U	<0.030 U	<0.032 U	<0.032 U
2-Nitrophenol			<0.067 U	<0.063 U	<0.068 U	<0.058 U	<0.061 U	<0.062 U
3,3'-Dichlorobenzidine			<0.28 U	<0.26 U	<0.280 U	<0.240 U	<0.250 U	<0.260 U
3-Nitroaniline			<0.066 U	<0.062 U	<0.067 U	<0.057 U	<0.060 U	<0.060 U
4,6-Dinitro-2-methylphenol			<0.24 U	<0.220 U	<0.240 U	<0.210 U	<0.220 U	<0.220 U
4-Bromophenyl phenyl ether			<0.034 U	<0.032 U	<0.034 U	<0.029 U	<0.031 U	<0.031 U
4-Chloro-3-methylphenol			<0.059 U	<0.055 U	<0.060 U	<0.051 U	<0.053 U	<0.054 U
4-Chloroaniline			<0.059 U	<0.055 U	<0.060 U	<0.051 U	<0.053 U	<0.054 U
4-Chlorophenyl phenyl ether			<0.030 U	<0.028 U	<0.030 U	<0.025 U	<0.027 U	<0.027 U
3-Methylphenol/4-Methylphenol		500	0.055 J	0.028 J	<0.028 U	0.066 J	0.031 J	0.1 J
4-Nitroaniline			<0.130 U	<0.12 U	<0.130 U	<0.110 U	<0.110 U	<0.110 U
4-Nitrophenol			<0.170 U	<0.16 U	<0.170 U	<0.140 U	<0.150 U	<0.150 U
Acenaphthene		500	0.087 J	<0.033 U	<0.035 U	0.059 J	<0.032 U	<0.032 U
Acenaphthylene		500	0.2 J	0.042 J	<0.031 U	0.14 J	0.078 J	0.066 J
Acetophenone			<0.032 U	<0.030 U	<0.033 U	<0.028 U	<0.029 U	<0.030 U
Anthracene		500	0.24	<0.055 U	<0.060 U	0.14 J	0.092 J	0.067 J
Atrazine			<0.083 U	<0.078 U	<0.084 U	<0.071 U	<0.075 U	<0.076 U
Benzaldehyde			<0.190 U	<0.180 U	<0.190 U	<0.160 U	<0.170 U	<0.170 U
Benzo(a)anthracene		5.6	0.46	0.087 J	<0.024 U	0.27	0.12 J	0.16 J
Benzo(a)pyrene		1	0.38	0.076 J	<0.035 U	0.29	0.11 J	0.15 J
Benzo(b)fluoranthene		5.6	0.48	0.1 J	<0.031 U	0.36	0.13 J	0.19 J
Benzo(ghi)perylene		500	0.29	0.077 J	<0.026 U	0.27	0.095 J	0.14 J
Benzo(k)fluoranthene		56	0.22 J	0.047 J	<0.031 U	0.16 J	0.067 J	0.0887 J
Biphenyl			0.06 J	<0.033 U	<0.035 U	0.041 J	<0.032 U	<0.032 U
Bis(2-chloroisopropyl)ether			<0.082 U	<0.045 U	<0.048 U	<0.041 U	<0.043 U	<0.044 U
Bis(2-chloroethoxy)methane			<0.051 U	<0.048 U	<0.051 U	<0.043 U	<0.046 U	<0.046 U
Bis(2-chloroethyl)ether			<0.048 U	<0.029 U	<0.031 U	<0.027 U	<0.028 U	<0.028 U
Bis(2-ethylhexyl)phthalate			<0.039 U	<0.077 U	<0.082 U	<0.070 U	<0.074 U	<0.075 U
Butyl benzyl phthalate			<0.039 U	<0.037 U	<0.040 U	<0.034 U	<0.036 U	<0.036 U
Caprolactam			<0.072 U	<0.067 U	<0.072 U	<0.062 U	<0.065 U	<0.066 U
Carbazole			0.07	<0.026 U	<0.028 U	0.056	0.032 J	<0.026 U
Chrysene		56	0.4	<0.050 U	<0.054 U	0.26	0.15 J	0.16 J



Table 2
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

ANALYTE	SAMPLE ID:		F-LOA-01-01302024	F-LOA-02-01302024	F-LOA-03-01302024	F-LOA-04-01302024	F-LOA-05-01302024	F-LOA-06-01302024
	LAB REPORT:		480-216732	480-216732	480-216732	480-216732	480-216732	480-216732
	COLLECTION DATE:		1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024
	SAMPLE DEPTH:		4' BGS	4.5' BGS	4' BGS	4' BGS	4' BGS	4' BGS
	LOCATION:		BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB
EPA-TCLP (mg/l)		Part 375 Commercial SCO (mg/kg)	Northwest Corner, Below former Tank ST03	Below Eastern Sump	Center	Northeast Corner, Below former ST04 Diesel Tank	West Side, Adjacent to Former Light Oil Building	Southeast Corner, Below former ST05 Gas Tank
Dibenzo(a,h)anthracene		0.56	<0.042 U	<0.040 U	<0.043 U	<0.036 U	<0.038 U	<0.039 U
Dibenzofuran		350	0.19 J	0.032 J	<0.028 U	0.11 J	0.067 J	0.04 J
Diethyl phthalate			<0.031 U	<0.029 U	<0.041 U	<0.027 U	<0.028 U	<0.028 U
Dimethyl phthalate			<0.028 U	<0.026 U	<0.028 U	<0.024 U	<0.025 U	<0.026 U
Di-n-butylphthalate			<0.041 U	<0.038 U	<0.026 U	<0.035 U	<0.037 U	<0.037 U
Di-n-octylphthalate			<0.028 U	<0.026 U	<0.028 U	<0.024 U	<0.025 U	<0.026 U
Fluoranthene		500	0.84 J	0.15 J	<0.033 U	0.47 J	0.23 J	0.26 J
Fluorene		500	0.26 J	0.045 J	<0.028 U	0.15 J	0.98 J	0.058 J
Hexachlorobenzene		6	<0.032 U	<0.030 U	<0.033 U	<0.028 U	<0.029 U	<0.030 U
Hexachlorobutadiene			<0.035 U	<0.033 U	>0.035 U	<0.030 U	<0.032 U	<0.032 U
Hexachlorocyclopentadiene			<0.032 U	<0.030 U	<0.033 U	<0.028 U	<0.029 U	<0.030 U
Hexachloroethane			<0.031 U	<0.029 U	<0.031 U	<0.027 U	<0.028 U	<0.028 U
Indeno(1,2,3-cd)pyrene		5.6	0.25 J	0.064 J	<0.030 U	0.2 J	0.077 J	0.11 J
Isophorone			<0.051 U	<0.048 U	<0.051 U	<0.043 U	<0.046 U	<0.046 U
Naphthalene		500	14 J	0.41 J	0.076 J	8.2 J	2.5 J	0.72 J
Nitrobenzene			<0.027 U	<0.025 U	<0.027 U	<0.023 U	<0.024 U	<0.024 U
n-Nitrosodi-n-propylamine			<0.041 U	<0.038 U	<0.041 U	<0.035 U	<0.037 U	<0.037 U
n-Nitrosodiphenylamine			<0.19 U	<0.180 U	<0.200 U	<0.170 U	<0.180 U	<0.180 U
Pentachlorophenol		6.7	<0.240 U	<0.220 U	<0.240 U	<0.210 U	<220 U	<0.220 U
Phenanthrene		500	0.93 J	0.15 J	<0.035 U	0.49 J	0.32 J	0.21 J
Phenol		500	<0.037 U	<0.034 U	<0.037 U	<0.031 U	<0.033 U	0.23 U
Pyrene		500	0.91 J	0.17 J	<0.028 U	0.55 J	0.24 J	0.3 J
Total SVOCs			20.68	1.534	0.2210	12.56	5.479	3.175
MERCURY, TOTAL								
Mercury, Total		2.8	0.15	0.12	0.6	0.38	0.087	0.62
GENERAL CHEMISTRY								
Cyanide, Reactive			<9.3 U	<9.4 U	<9.1 U	<9.4 U	<9.8 U	<9.3 U
Sulfide, Reactive			74.3	<9.4 U	147	<9.4 U	19.5	<9.3 U
Ignitability (Degrees F)	<140		>180	>180	>180	>180	>180	>180
pH (H)	>12.5, <2		8.4 HF	8.2 HF	8.3 HF	9.2 HF	8.8 HF	10 HF
Solids, Total			70.7	75.4	69.5	82.5	76.3	76.1
TCLP VOLATILES BY EPA 1311								
1,1-Dichloroethene	0.7		<0.0029 U	<0.0029 U	<0.0029 U	<0.0029 U	<0.0029 U	<0.0029 U
1,2-Dichloroethane	0.5		<0.0021 U	<0.0021 U	<0.0021 U	<0.0021 U	<0.0021 U	<0.0021 U
2-Butanone	200		<0.013 U	<0.013 U	<0.013 U	<0.013 U	<0.013 U	<0.013 U
Benzene	0.5		0.073	<0.0041 U	0.76	<0.0041 U	<0.0041 U	0.019
Carbon tetrachloride	0.5		<0.0027 U	<0.0027 U	<0.0027 U	<0.0027 U	<0.0027 U	<0.0027 U
Chlorobenzene	100		<0.0075 U	<0.0075 U	<0.0075 U	<0.0075 U	<0.0075 U	<0.0075 U
Chloroform	6		<0.0034 U	<0.0034 U	<0.0034 U	<0.0034 U	<0.0034 U	<0.0034 U
Tetrachloroethene	0.7		<0.0036 U	<0.0036 U	<0.0036 U	<0.0036 U	<0.0036 U	<0.0036 U
Trichloroethene	0.5		<0.0046 U	<0.0046 U	<0.0046 U	<0.0046 U	<0.0046 U	<0.0046 U
Vinyl chloride	0.2		<0.0090 U	<0.0090 U	<0.0090 U	<0.0090 U	<0.0090 U	<0.0090 U
SUM			0.073	- U	0.76	-	-	0.019



Table 2
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

ANALYTE	SAMPLE ID:		F-LOA-01-01302024	F-LOA-02-01302024	F-LOA-03-01302024	F-LOA-04-01302024	F-LOA-05-01302024	F-LOA-06-01302024
	LAB REPORT:		480-216732	480-216732	480-216732	480-216732	480-216732	480-216732
	COLLECTION DATE:		1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024
	SAMPLE DEPTH:		4' BGS	4.5' BGS	4' BGS	4' BGS	4' BGS	4' BGS
	LOCATION:		BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB
EPA-TCLP (mg/l)	Part 375 Commercial SCO (mg/kg)	Northwest Corner, Below former Tank ST03	Below Eastern Sump	Center	Northeast Corner, Below fomer ST04 Diesel Tank	West Side, Adjacent to Former Light Oil Building	Southeast Corner, Below former ST05 Gas Tank	
TCLP SEMIVOLATILES BY EPA 1311								
2,4,5-Trichlorophenol	400	<0.0048 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0048 U	<0.0024 U	
2,4,6-Trichlorophenol	2	<0.0060 U	<0.0030 U	<0.0024 U	<0.0030 U	<0.0060 U	<0.0030 U	
2,4-Dinitrotoluene	0.13	<0.0043 U	<0.0021 U	<0.0017 U	<0.0021 U	<0.0043 U	<0.0021 U	
2-Methylphenol	200	<0.0040 U	<0.0020 U	0.0069 J	<0.0020 U	<0.0040 U	0.003 J	
3-Methylphenol	200	<0.0040 U	<0.0020 U	0.0031 J	<0.0020 U	<0.0040 U	0.0056 J	
4-Methylphenol	200	<0.0035 U	<0.0018 U	0.0031 J	<0.0018 U	<0.0035 U	0.0056 J	
Hexachlorobenzene	0.13	<0.050 U	<0.0025 U	<0.0020 U	<0.0025 U	<0.050 U	<0.0025 U	
Hexachlorobutadiene	0.5	<0.0068 U	<0.0034 U	<0.0027 U	<0.0034 U	<0.0068 U	<0.0034 U	
Hexachloroethane	3	<0.0058 U	<0.0029 U	<0.0023 U	<0.0029 U	<0.0058 U	<0.0029 U	
Nitrobenzene	2	<0.0028 U	<0.0014 U	<0.0011 U	<0.0014 U	<0.0028 U	<0.0014 U	
Pentachlorophenol	100	<0.022 U	<0.011 U	<0.0088 U	<0.011 U	<0.022 U	<0.011 U	
Pyridine	5	<0.25 U	<0.0020 U	<0.0016 U	<0.0020 U	<0.0040 U	<0.0020 U	
SUM		-	-	0.0131	-	-	0.0142	
TCLP METALS BY EPA 1311								
Arsenic, TCLP	5	<0.0056 U	0.0064 J	0.041	<0.015 U	0.007 J	0.007 J	
Barium, TCLP	100	0.5 J	0.3 J	0.42 J	0.87 J	0.62 J	1.3	
Cadmium, TCLP	1	<0.00050 U	<0.00050 U	<0.00050 U	<0.00050 U	<0.00050 U	<0.00050 U	
Chromium, TCLP	5	<0.010 U	<0.010 U	<0.010 U	<0.010 U	<0.010 U	<0.010 U	
Lead, TCLP	5	0.011 JB	0.0052 JB	0.018 JB	0.012 JB	0.019 JB	0.047 B	
Mercury, TCLP	0.2	<0.000043 U	<0.000043 U	<0.000043 U	<0.000043 U	<0.000043 U	0.00008 J	
Selenium, TCLP	1	<0.0087 U	<0.0087 U	<0.0087 U	<0.0087 U	<0.0087 U	<0.0087 U	
Silver, TCLP	5	<0.0017 U	<0.0060 U	<0.0017 U	<0.0017 U	<0.0017 U	<0.0017 U	
TCLP PESTICIDES BY EPA 1311								
Chlordane	0.03	<0.000073 U	<0.000036 U	<0.000029 U	<0.000036 U	<0.000073 U	<0.000036 U	
Endrin	0.02	<0.000035 U	<0.000017 U	<0.000014 U	<0.000017 U	<0.000035 U	<0.000017 U	
Lindane	0.4	<0.000015 U	<0.0000075 U	<0.0000060 U	<0.0000075 U	<0.000015 U	<0.0000075 U	
Heptachlor	0.008	<0.000021 U	<0.000011 U	<0.0000085 U	<0.000011 U	<0.000021 U	<0.000011 U	
Heptachlor epoxide	0.008	<0.000013 U	<0.0000066 U	<0.0000053 U	<0.0000066 U	<0.000013 U	<0.0000066 U	
Methoxychlor	10	<0.000035 U	<0.000018 U	<0.000014 U	<0.000018 U	<0.000035 U	<0.000018 U	
Toxaphene	0.5	<0.00030 U	<0.00015 U	<0.00012 U	<0.00015 U	<0.00030 U	<0.00015 U	
TCLP HERBICIDES BY EPA 1311								
2,4,5-TP (Silvex)	1	<0.0010 U	<0.00050 U	<0.00040 U	<0.00050 U	<0.0010 U	<0.00050 U	
2,4-D	10	<0.00090 U	<0.00045 U	<0.00036 U	<0.00045 U	<0.00090 U	<0.00045 U	
PFAS								
PERFLUOROCTANE SULFONIC ACID (PFOS)		0.44	-	-	-	<0.000068	-	
Perfluorooctanoic acid (PFOA)		0.50	-	-	-	<0.000051	-	



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 Tonawanda, New York

ANALYTE	SAMPLE ID:		F-LOA-01-01302024	F-LOA-02-01302024	F-LOA-03-01302024	F-LOA-04-01302024	F-LOA-05-01302024	F-LOA-06-01302024	
	LAB REPORT:		480-216732	480-216732	480-216732	480-216732	480-216732	480-216732	480-216732
	COLLECTION DATE:		1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024	1/30/2024
	SAMPLE DEPTH:		4' BGS	4.5' BGS	4' BGS	4' BGS	4' BGS	4' BGS	4' BGS
	LOCATION:		BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB	BULLET TANK SUB-SLAB
	EPA-TCLP (mg/l)	Part 375 Commercial SCO (mg/kg)	Northwest Corner, Below former Tank ST03	Below Eastern Sump	Center	Northeast Corner, Below fomer ST04 Diesel Tank	West Side, Adjacent to Former Light Oil Building	Southeast Corner, Below former ST05 Gas Tank	

* Comparison is not performed on parameters with non-numeric criteria.

EPA-TCLP: EPA Toxicity Characteristic (TCLP) Regulatory Levels Criteria per 40CFR Part 261 as of September 10, 2015.

NY-RESC: New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESI: New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

Qualifiers:

U - Not detected at the reported detection limit for the sample.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

B - Compound was found in the blank and sample.

HF - Analyzed outside of hold time.

Bold - Compound is detected

Red Highlight - Exceeds NYS Part 375 Industrial SCOs

Green Highlight - Exceeds NYS Part 375 Commercial SCOs

Yellow Highlight - Exceeds EPA Toxicity Characteristic Regulatory Levels



Table 3
 Secondary Containment Closure Construction Completion Report
 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
 Riverview Innovation & Technology Campus, Inc.,
 Tonawanda, New York

ANALYTE	SAMPLE ID:		F-LOA-07-01302024	
	LAB REPORT:		480-216732	
	COLLECTION DATE:		1/30/2024	
	SAMPLE DEPTH:		Surface Water in Excavation	
	LOCATION:		Bullet Tank Sub-Slab	
	Class GA NYS Ambient Water Quality Standards and Guidance Values		Units	Eastern Side of Excavation
VOCs 8260C				
1,1,1-TRICHLOROETHANE	5	ug/L	<41	U
1,1,2,2-TETRACHLOROETHANE	5	ug/L	<11	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	-	ug/L	<16	U
1,1,2-TRICHLOROETHANE	1	ug/L	<12	U
1,1-DICHLOROETHANE	5	ug/L	<19	U
1,1-DICHLOROETHENE	5	ug/L	<15	U
1,2,4-TRICHLOROBENZENE	5	ug/L	<21	U
1,2,4-TRIMETHYLBENZENE	5	ug/L	55	
1,2-DIBROMO-3-CHLOROPROPANE	0.04	ug/L	<20	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.0006	ug/L	<37	U
1,2-DICHLOROBENZENE	3	ug/L	<40	U
1,2-DICHLOROETHANE	0.6	ug/L	<11	U
1,2-DICHLOROPROPANE	1	ug/L	<36	U
1,3,5-TRIMETHYLBENZENE	5	ug/L	<39	U
1,3-DICHLOROBENZENE	3	ug/L	<36	U
1,4-DICHLOROBENZENE	3	ug/L	<42	U
2-HEXANONE	50	ug/L	<62	U
ACETONE	50	ug/L	<150	U
BENZENE	1	ug/L	2000	
BROMODICHLOROMETHANE	50	ug/L	<20	U
BROMOFORM	50	ug/L	<13	U
BROMOMETHANE	5	ug/L	<35	U
CARBON DISULFIDE	60	ug/L	<9.5	U
CARBON TETRACHLORIDE	5	ug/L	<14	U
CHLOROBENZENE	5	ug/L	<38	U
CHLOROETHANE	5	ug/L	<16	U
CHLOROFORM	7	ug/L	<17	U
CHLOROMETHANE	5	ug/L	<18	U
Cis-1,2-Dichloroethylene	5	ug/L	<41	U
CIS-1,3-DICHLOROPROPENE	0.4	ug/L	<18	U
CYCLOHEXANE	-	ug/L	<9	U
DIBROMOCHLOROMETHANE	50	ug/L	<16	U
DICHLORODIFLUOROMETHANE	5	ug/L	<34	U
ETHYLBENZENE	5	ug/L	<37	U
Isopropylbenzene (Cumene)	5	ug/L	<40	U
M,P-XYLENES	5	ug/L	410	
METHYL ACETATE	-	ug/L	<65	U
METHYL ETHYL KETONE (2-BUTANONE)	50	ug/L	<66	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	-	ug/L	<110	U
METHYLCYCLOHEXANE	-	ug/L	<8	U
METHYLENE CHLORIDE	5	ug/L	<22	U
O-XYLENE (1,2-DIMETHYLBENZENE)	5	ug/L	110	
STYRENE	5	ug/L	59	
TERT-BUTYL METHYL ETHER	10	ug/L	<8	U
TETRACHLOROETHYLENE(PCE)	5	ug/L	<18	U



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 Former Light Oil Area Tanks ST03, ST04, and ST05 "Bullet Tanks"
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ANALYTE	SAMPLE ID:		F-LOA-07-01302024	
	LAB REPORT:		480-216732	
	COLLECTION DATE:		1/30/2024	
	SAMPLE DEPTH:		Surface Water in Excavation	
	LOCATION:		Bullet Tank Sub-Slab	
	Class GA NYS Ambient Water Quality Standards and Guidance Values		Units	Eastern Side of Excavation
TOLUENE	5	ug/L	770	
TRANS-1,2-DICHLOROETHENE	5	ug/L	<45	U
TRANS-1,3-DICHLOROPROPENE	0.4	ug/L	<19	U
TRICHLOROETHYLENE (TCE)	5	ug/L	<23	U
TRICHLOROFLUOROMETHANE	5	ug/L	<44	U
VINYL CHLORIDE	2	ug/L	<45	U
Xylenes, Total	-	ug/L	520	
SVOCs 8270D				
2,4,5-TRICHLOROPHENOL	1	ug/L	<2.4	U
2,4,6-TRICHLOROPHENOL	1	ug/L	<3.1	U
2,4-DICHLOROPHENOL	1	ug/L	<2.6	U
2,4-DIMETHYLPHENOL	1	ug/L	160	
2,4-DINITROPHENOL	1	ug/L	<11	U
2,4-DINITROTOLUENE	5	ug/L	<2.2	U
2,6-DINITROTOLUENE	5	ug/L	<2.0	U
2-CHLORONAPHTHALENE	10	ug/L	<2.3	U
2-CHLOROPHENOL	1	ug/L	<2.7	U
2-Methylnaphthalene	-	ug/L	100	
2-Methylphenol (O-Cresol)	1	ug/L	220	J
2-NITROANILINE	5	ug/L	<2.1	
2-NITROPHENOL	1	ug/L	<2.4	U
3,3'-DICHLOROBENZIDINE	5	ug/L	<2.0	U
3-NITROANILINE	5	ug/L	<2.4	U
4,6-DINITRO-2-METHYLPHENOL	1	ug/L	<11	U
4-BROMOPHENYL PHENYL ETHER	-	ug/L	<2.3	U
4-CHLORO-3-METHYLPHENOL	1	ug/L	<2.3	U
4-CHLOROANILINE	5	ug/L	<150	U
4-CHLOROPHENYL PHENYL ETHER	-	ug/L	<1.8	U
4-METHYLPHENOL (P-CRESOL)	-	ug/L	390	J
4-NITROANILINE	5	ug/L	<1.3	
4-NITROPHENOL	1	ug/L	<7.6	U
ACENAPHTHENE	20	ug/L	20	J
ACENAPHTHYLENE	-	ug/L	40	
ACETOPHENONE	-	ug/L	46	
ANTHRACENE	50	ug/L	<1.4	U
ATRAZINE	-	ug/L	<2.3	U
BENZALDEHYDE	-	ug/L	<1.3	U
BENZO(A)ANTHRACENE	0.002	ug/L	7.7	J
BENZO(A)PYRENE	-	ug/L	6.4	J
BENZO(B)FLUORANTHENE	0.002	ug/L	10	J
BENZO(G,H,I)PERYLENE	-	ug/L	5.3	J
BENZO(K)FLUORANTHENE	0.002	ug/L	<3.7	U
BENZYL BUTYL PHTHALATE	50	ug/L	<5.0	U
BIPHENYL (DIPHENYL)	-	ug/L	<3.3	U
BIS(2-CHLOROETHOXY) METHANE	5	ug/L	<1.8	U



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	LAB REPORT:		480-216732	
	COLLECTION DATE:		1/30/2024	
	SAMPLE DEPTH:		Surface Water in Excavation	
	LOCATION:		Bullet Tank Sub-Slab	
	Class GA NYS Ambient Water Quality Standards and Guidance Values	Units	Eastern Side of Excavation	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	1	ug/L	<2.0	U
BIS(2-CHLOROISOPROPYL) ETHER	5	ug/L	<2.6	U
BIS(2-ETHYLHEXYL) PHTHALATE	5	ug/L	<11	U
CAPROLACTAM	-	ug/L	<11	U
CARBAZOLE	-	ug/L	37	
CHRYSENE	0.002	ug/L	8.8	J
DIBENZ(A,H)ANTHRACENE	-	ug/L	<2.1	U
DIBENZOFURAN	-	ug/L	24	J
DIETHYL PHTHALATE	50	ug/L	<1.1	U
DIMETHYL PHTHALATE	50	ug/L	<1.8	U
DI-N-BUTYL PHTHALATE	50	ug/L	<1.6	U
DI-N-OCTYLPHTHALATE	50	ug/L	<2.4	U
FLUORANTHENE	50	ug/L	26	
FLUORENE	50	ug/L	27	
HEXACHLOROBENZENE	0.04	ug/L	<2.6	U
HEXACHLOROBUTADIENE	0.5	ug/L	<3.4	U
HEXACHLOROCYCLOPENTADIENE	5	ug/L	<3.0	U
HEXACHLOROETHANE	5	ug/L	<3.0	U
INDENO(1,2,3-C,D)PYRENE	0.002	ug/L	4.2	J
ISOPHORONE	50	ug/L	<2.2	U
NAPHTHALENE	10	ug/L	9900	
NITROBENZENE	0.4	ug/L	<1.5	U
N-NITROSODI-N-PROPYLAMINE	-	ug/L	<2.7	U
N-NITROSODIPHENYLAMINE	50	ug/L	<2.6	U
PENTACHLOROPHENOL	1	ug/L	<11	U
PHENANTHRENE	50	ug/L	38	
PHENOL	1	ug/L	640	J
PYRENE	50	ug/L	21	J
Mercury 7470A				
MERCURY	0.0007	mg/L	0.15	
Nitrogen, Ammonia E350.1				
NITROGEN, AMMONIA (AS N)	2	mg/L	12.1	
GENERAL CHEMISTRY				
Flashpoint	<140	Deg F	>180	
pH (H)	>12.5, <2		10.5	HF

Qualifiers:

- U - Not detected at the reported detection limit for the sample.
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- B - Compound was found in the blank and sample.
- HF - Analyzed outside of hold time.
- Bold** - Compound is detected
- Red Highlight - Exceeds clas GA Ambient Water Quality Standards

Appendix A – Laboratory Reports





PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Inventum Engineering, P.C.

For Lab Project ID

225421

Referencing

Concrete Cores

Prepared

Monday, September 22, 2025

This project has been re-issued to include additional compounds, per client request.

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 225421

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01

Date Sampled: 11/7/2022 15:15

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 284	ug/Kg		11/16/2022 23:06
1,2,4,5-Tetrachlorobenzene	< 284	ug/Kg		11/16/2022 23:06
1,2,4-Trichlorobenzene	< 284	ug/Kg		11/16/2022 23:06
1,2-Dichlorobenzene	< 284	ug/Kg		11/16/2022 23:06
1,3-Dichlorobenzene	< 284	ug/Kg		11/16/2022 23:06
1,4-Dichlorobenzene	< 284	ug/Kg		11/16/2022 23:06
2,2-Oxybis (1-chloropropane)	< 284	ug/Kg		11/16/2022 23:06
2,3,4,6-Tetrachlorophenol	< 284	ug/Kg		11/16/2022 23:06
2,4,5-Trichlorophenol	< 284	ug/Kg		11/16/2022 23:06
2,4,6-Trichlorophenol	< 284	ug/Kg		11/16/2022 23:06
2,4-Dichlorophenol	< 284	ug/Kg		11/16/2022 23:06
2,4-Dimethylphenol	< 284	ug/Kg		11/16/2022 23:06
2,4-Dinitrophenol	< 1140	ug/Kg		11/16/2022 23:06
2,4-Dinitrotoluene	< 284	ug/Kg		11/16/2022 23:06
2,6-Dinitrotoluene	< 284	ug/Kg		11/16/2022 23:06
2-Chloronaphthalene	< 284	ug/Kg		11/16/2022 23:06
2-Chlorophenol	< 284	ug/Kg		11/16/2022 23:06
2-Methylnapthalene	705	ug/Kg		11/16/2022 23:06
2-Methylphenol	< 284	ug/Kg		11/16/2022 23:06
2-Nitroaniline	< 284	ug/Kg		11/16/2022 23:06
2-Nitrophenol	< 284	ug/Kg		11/16/2022 23:06
3&4-Methylphenol	< 284	ug/Kg		11/16/2022 23:06
3,3'-Dichlorobenzidine	< 284	ug/Kg		11/16/2022 23:06
3-Nitroaniline	< 284	ug/Kg		11/16/2022 23:06
4,6-Dinitro-2-methylphenol	< 380	ug/Kg		11/16/2022 23:06
4-Bromophenyl phenyl ether	< 284	ug/Kg		11/16/2022 23:06
4-Chloro-3-methylphenol	< 284	ug/Kg		11/16/2022 23:06
4-Chloroaniline	< 284	ug/Kg		11/16/2022 23:06

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01

Date Sampled: 11/7/2022 15:15

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 284	ug/Kg	11/16/2022 23:06
4-Nitroaniline	< 284	ug/Kg	11/16/2022 23:06
4-Nitrophenol	< 284	ug/Kg	11/16/2022 23:06
Acenaphthene	< 284	ug/Kg	11/16/2022 23:06
Acenaphthylene	< 284	ug/Kg	11/16/2022 23:06
Acetophenone	< 284	ug/Kg	11/16/2022 23:06
Anthracene	< 284	ug/Kg	11/16/2022 23:06
Atrazine	< 284	ug/Kg	11/16/2022 23:06
Benzaldehyde	< 284	ug/Kg	11/16/2022 23:06
Benzo (a) anthracene	< 284	ug/Kg	11/16/2022 23:06
Benzo (a) pyrene	< 284	ug/Kg	11/16/2022 23:06
Benzo (b) fluoranthene	< 284	ug/Kg	11/16/2022 23:06
Benzo (g,h,i) perylene	< 284	ug/Kg	11/16/2022 23:06
Benzo (k) fluoranthene	< 284	ug/Kg	11/16/2022 23:06
Bis (2-chloroethoxy) methane	< 284	ug/Kg	11/16/2022 23:06
Bis (2-chloroethyl) ether	< 284	ug/Kg	11/16/2022 23:06
Bis (2-ethylhexyl) phthalate	< 284	ug/Kg	11/16/2022 23:06
Butylbenzylphthalate	10600	ug/Kg	11/16/2022 23:06
Caprolactam	< 284	ug/Kg	11/16/2022 23:06
Carbazole	< 284	ug/Kg	11/16/2022 23:06
Chrysene	< 284	ug/Kg	11/16/2022 23:06
Dibenz (a,h) anthracene	< 284	ug/Kg	11/16/2022 23:06
Dibenzofuran	< 284	ug/Kg	11/16/2022 23:06
Diethyl phthalate	< 284	ug/Kg	11/16/2022 23:06
Dimethyl phthalate	< 284	ug/Kg	11/16/2022 23:06
Di-n-butyl phthalate	< 284	ug/Kg	11/16/2022 23:06
Di-n-octylphthalate	< 284	ug/Kg	11/16/2022 23:06
Fluoranthene	< 284	ug/Kg	11/16/2022 23:06
Fluorene	< 284	ug/Kg	11/16/2022 23:06
Hexachlorobenzene	< 284	ug/Kg	11/16/2022 23:06

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01

Date Sampled: 11/7/2022 15:15

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 284	ug/Kg	11/16/2022	23:06
Hexachlorocyclopentadiene	< 1140	ug/Kg	11/16/2022	23:06
Hexachloroethane	< 284	ug/Kg	11/16/2022	23:06
Indeno (1,2,3-cd) pyrene	< 284	ug/Kg	11/16/2022	23:06
Isophorone	7600	ug/Kg	11/16/2022	23:06
Naphthalene	5870	ug/Kg	11/16/2022	23:06
Nitrobenzene	< 284	ug/Kg	11/16/2022	23:06
N-Nitroso-di-n-propylamine	< 284	ug/Kg	11/16/2022	23:06
N-Nitrosodiphenylamine	< 284	ug/Kg	11/16/2022	23:06
Pentachlorophenol	< 568	ug/Kg	11/16/2022	23:06
Phenanthrene	< 284	ug/Kg	11/16/2022	23:06
Phenol	< 284	ug/Kg	11/16/2022	23:06
Pyrene	< 284	ug/Kg	11/16/2022	23:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	6.01	35.4 - 92.4	*	11/16/2022 23:06
2-Fluorobiphenyl	76.6	39.6 - 84.4		11/16/2022 23:06
2-Fluorophenol	27.2	35.5 - 78.9	*	11/16/2022 23:06
Nitrobenzene-d5	67.2	36.5 - 78.2		11/16/2022 23:06
Phenol-d5	56.5	37.1 - 78.3		11/16/2022 23:06
Terphenyl-d14	88.1	42.3 - 103		11/16/2022 23:06

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65006.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 606	ug/Kg		11/14/2022 12:43
1,1,1-Trichloroethane	< 606	ug/Kg		11/14/2022 12:43
1,1,2,2-Tetrachloroethane	< 606	ug/Kg		11/14/2022 12:43
1,1,2-Trichloroethane	< 606	ug/Kg		11/14/2022 12:43
1,1-Dichloroethane	< 606	ug/Kg		11/14/2022 12:43

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01

Date Sampled: 11/7/2022 15:15

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 606	ug/Kg	11/14/2022 12:43
1,1-Dichloropropene	< 606	ug/Kg	11/14/2022 12:43
1,2,3-Trichlorobenzene	< 1520	ug/Kg	11/14/2022 12:43
1,2,3-Trichloropropane	< 606	ug/Kg	11/14/2022 12:43
1,2,4-Trichlorobenzene	< 1520	ug/Kg	11/14/2022 12:43
1,2,4-Trimethylbenzene	1120	ug/Kg	11/14/2022 12:43
1,2-Dibromo-3-Chloropropane	< 3030	ug/Kg	11/14/2022 12:43
1,2-Dibromoethane	< 606	ug/Kg	11/14/2022 12:43
1,2-Dichlorobenzene	< 606	ug/Kg	11/14/2022 12:43
1,2-Dichloroethane	< 606	ug/Kg	11/14/2022 12:43
1,2-Dichloropropane	< 606	ug/Kg	11/14/2022 12:43
1,3,5-Trimethylbenzene	750	ug/Kg	11/14/2022 12:43
1,3-Dichlorobenzene	< 606	ug/Kg	11/14/2022 12:43
1,3-Dichloropropane	< 606	ug/Kg	11/14/2022 12:43
1,4-Dichlorobenzene	< 606	ug/Kg	11/14/2022 12:43
1,4-Dioxane	< 3030	ug/Kg	11/14/2022 12:43
2,2-Dichloropropane	< 606	ug/Kg	11/14/2022 12:43
2-Butanone	< 3030	ug/Kg	11/14/2022 12:43
2-Chlorotoluene	< 606	ug/Kg	11/14/2022 12:43
2-Hexanone	< 1520	ug/Kg	11/14/2022 12:43
4-Chlorotoluene	< 606	ug/Kg	11/14/2022 12:43
4-Methyl-2-pentanone	< 1520	ug/Kg	11/14/2022 12:43
Acetone	< 3030	ug/Kg	11/14/2022 12:43
Benzene	< 606	ug/Kg	11/14/2022 12:43
Bromobenzene	< 1520	ug/Kg	11/14/2022 12:43
Bromochloromethane	< 1520	ug/Kg	11/14/2022 12:43
Bromodichloromethane	< 606	ug/Kg	11/14/2022 12:43
Bromoform	< 1520	ug/Kg	11/14/2022 12:43
Bromomethane	< 606	ug/Kg	11/14/2022 12:43
Carbon disulfide	< 606	ug/Kg	11/14/2022 12:43

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01

Date Sampled: 11/7/2022 15:15

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 606	ug/Kg	11/14/2022 12:43
Chlorobenzene	< 606	ug/Kg	11/14/2022 12:43
Chloroethane	< 606	ug/Kg	11/14/2022 12:43
Chloroform	< 606	ug/Kg	11/14/2022 12:43
Chloromethane	< 606	ug/Kg	11/14/2022 12:43
cis-1,2-Dichloroethene	< 606	ug/Kg	11/14/2022 12:43
cis-1,3-Dichloropropene	< 606	ug/Kg	11/14/2022 12:43
Cyclohexane	< 3030	ug/Kg	11/14/2022 12:43
Dibromochloromethane	< 606	ug/Kg	11/14/2022 12:43
Dibromomethane	< 606	ug/Kg	11/14/2022 12:43
Dichlorodifluoromethane	< 606	ug/Kg	11/14/2022 12:43
Ethylbenzene	< 606	ug/Kg	11/14/2022 12:43
Freon 113	< 606	ug/Kg	11/14/2022 12:43
Isopropylbenzene	< 606	ug/Kg	11/14/2022 12:43
m,p-Xylene	2680	ug/Kg	11/14/2022 12:43
Methyl acetate	4360	ug/Kg	11/14/2022 12:43
Methyl tert-butyl Ether	< 606	ug/Kg	11/14/2022 12:43
Methylcyclohexane	< 606	ug/Kg	11/14/2022 12:43
Methylene chloride	< 1520	ug/Kg	11/14/2022 12:43
Naphthalene	20600	ug/Kg	11/14/2022 12:43
n-Butylbenzene	< 606	ug/Kg	11/14/2022 12:43
n-Propylbenzene	< 606	ug/Kg	11/14/2022 12:43
o-Xylene	786	ug/Kg	11/14/2022 12:43
p-Isopropyltoluene	< 606	ug/Kg	11/14/2022 12:43
sec-Butylbenzene	< 606	ug/Kg	11/14/2022 12:43
Styrene	< 1520	ug/Kg	11/14/2022 12:43
tert-Butylbenzene	< 606	ug/Kg	11/14/2022 12:43
Tetrachloroethene	< 606	ug/Kg	11/14/2022 12:43
Toluene	972	ug/Kg	11/14/2022 12:43
trans-1,2-Dichloroethene	< 606	ug/Kg	11/14/2022 12:43

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01

Date Sampled: 11/7/2022 15:15

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 606	ug/Kg	11/14/2022	12:43
Trichloroethene	< 606	ug/Kg	11/14/2022	12:43
Trichlorofluoromethane	< 606	ug/Kg	11/14/2022	12:43
Vinyl chloride	< 606	ug/Kg	11/14/2022	12:43

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	91.1	74.7 - 140		11/14/2022 12:43
4-Bromofluorobenzene	86.1	68 - 130		11/14/2022 12:43
Pentafluorobenzene	99.5	70.3 - 140		11/14/2022 12:43
Toluene-D8	99.7	69 - 138		11/14/2022 12:43

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13424.D

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01A

Date Sampled: 11/7/2022 15:15

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/17/2022 16:01
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/17/2022 16:01
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/17/2022 16:01
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/17/2022 16:01
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/17/2022 16:01
Hexachlorobenzene	< 40.0	ug/L	130		11/17/2022 16:01
Hexachlorobutadiene	< 40.0	ug/L	500		11/17/2022 16:01
Hexachloroethane	< 40.0	ug/L	3000		11/17/2022 16:01
Nitrobenzene	< 40.0	ug/L	2000		11/17/2022 16:01
Pentachlorophenol	< 80.0	ug/L	100000		11/17/2022 16:01
Pyridine	< 40.0	ug/L	5000		11/17/2022 16:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	93.1	29.6 - 139		11/17/2022 16:01
2-Fluorobiphenyl	67.3	10 - 124		11/17/2022 16:01
2-Fluorophenol	64.2	10 - 122		11/17/2022 16:01
Nitrobenzene-d5	84.6	28.7 - 119		11/17/2022 16:01
Phenol-d5	73.1	10 - 115		11/17/2022 16:01
Terphenyl-d14	94.9	32.2 - 142		11/17/2022 16:01

Method Reference(s): EPA 8270D
 EPA 1311 / 3510C
Preparation Date: 11/16/2022
Data File: B65024.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		11/17/2022 15:15
1,2-Dichloroethane	< 20.0	ug/L	500		11/17/2022 15:15
2-Butanone	< 100	ug/L	200000		11/17/2022 15:15
Benzene	< 20.0	ug/L	500		11/17/2022 15:15

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06W - 11072022

Lab Sample ID: 225421-01A

Date Sampled: 11/7/2022 15:15

Matrix: TCLP Extract

Date Received 11/9/2022

Carbon Tetrachloride	< 20.0	ug/L	500	11/17/2022	15:15
Chlorobenzene	< 20.0	ug/L	100000	11/17/2022	15:15
Chloroform	< 20.0	ug/L	6000	11/17/2022	15:15
Tetrachloroethene	< 20.0	ug/L	700	11/17/2022	15:15
Trichloroethene	< 20.0	ug/L	500	11/17/2022	15:15
Vinyl chloride	< 20.0	ug/L	200	11/17/2022	15:15

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	96.1	81.1 - 136		11/17/2022 15:15
4-Bromofluorobenzene	84.7	75.8 - 132		11/17/2022 15:15
Pentafluorobenzene	102	82 - 132		11/17/2022 15:15
Toluene-D8	101	64.6 - 137		11/17/2022 15:15

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z13543.D

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02

Date Sampled: 11/7/2022 15:30

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 275	ug/Kg		11/16/2022 23:36
1,2,4,5-Tetrachlorobenzene	< 275	ug/Kg		11/16/2022 23:36
1,2,4-Trichlorobenzene	< 275	ug/Kg		11/16/2022 23:36
1,2-Dichlorobenzene	< 275	ug/Kg		11/16/2022 23:36
1,3-Dichlorobenzene	< 275	ug/Kg		11/16/2022 23:36
1,4-Dichlorobenzene	< 275	ug/Kg		11/16/2022 23:36
2,2-Oxybis (1-chloropropane)	< 275	ug/Kg		11/16/2022 23:36
2,3,4,6-Tetrachlorophenol	< 275	ug/Kg		11/16/2022 23:36
2,4,5-Trichlorophenol	< 275	ug/Kg		11/16/2022 23:36
2,4,6-Trichlorophenol	< 275	ug/Kg		11/16/2022 23:36
2,4-Dichlorophenol	< 275	ug/Kg		11/16/2022 23:36
2,4-Dimethylphenol	< 275	ug/Kg		11/16/2022 23:36
2,4-Dinitrophenol	< 1100	ug/Kg		11/16/2022 23:36
2,4-Dinitrotoluene	< 275	ug/Kg		11/16/2022 23:36
2,6-Dinitrotoluene	< 275	ug/Kg		11/16/2022 23:36
2-Chloronaphthalene	< 275	ug/Kg		11/16/2022 23:36
2-Chlorophenol	< 275	ug/Kg		11/16/2022 23:36
2-Methylnapthalene	530	ug/Kg		11/16/2022 23:36
2-Methylphenol	< 275	ug/Kg		11/16/2022 23:36
2-Nitroaniline	< 275	ug/Kg		11/16/2022 23:36
2-Nitrophenol	< 275	ug/Kg		11/16/2022 23:36
3&4-Methylphenol	< 275	ug/Kg		11/16/2022 23:36
3,3'-Dichlorobenzidine	< 275	ug/Kg		11/16/2022 23:36
3-Nitroaniline	< 275	ug/Kg		11/16/2022 23:36
4,6-Dinitro-2-methylphenol	< 368	ug/Kg		11/16/2022 23:36
4-Bromophenyl phenyl ether	< 275	ug/Kg		11/16/2022 23:36
4-Chloro-3-methylphenol	< 275	ug/Kg		11/16/2022 23:36
4-Chloroaniline	< 275	ug/Kg		11/16/2022 23:36

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Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02

Date Sampled: 11/7/2022 15:30

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 275	ug/Kg	11/16/2022 23:36
4-Nitroaniline	< 275	ug/Kg	11/16/2022 23:36
4-Nitrophenol	< 275	ug/Kg	11/16/2022 23:36
Acenaphthene	< 275	ug/Kg	11/16/2022 23:36
Acenaphthylene	< 275	ug/Kg	11/16/2022 23:36
Acetophenone	< 275	ug/Kg	11/16/2022 23:36
Anthracene	434	ug/Kg	11/16/2022 23:36
Atrazine	< 275	ug/Kg	11/16/2022 23:36
Benzaldehyde	< 275	ug/Kg	11/16/2022 23:36
Benzo (a) anthracene	557	ug/Kg	11/16/2022 23:36
Benzo (a) pyrene	535	ug/Kg	11/16/2022 23:36
Benzo (b) fluoranthene	515	ug/Kg	11/16/2022 23:36
Benzo (g,h,i) perylene	310	ug/Kg	11/16/2022 23:36
Benzo (k) fluoranthene	431	ug/Kg	11/16/2022 23:36
Bis (2-chloroethoxy) methane	< 275	ug/Kg	11/16/2022 23:36
Bis (2-chloroethyl) ether	< 275	ug/Kg	11/16/2022 23:36
Bis (2-ethylhexyl) phthalate	< 275	ug/Kg	11/16/2022 23:36
Butylbenzylphthalate	< 275	ug/Kg	11/16/2022 23:36
Caprolactam	< 275	ug/Kg	11/16/2022 23:36
Carbazole	< 275	ug/Kg	11/16/2022 23:36
Chrysene	638	ug/Kg	11/16/2022 23:36
Dibenz (a,h) anthracene	< 275	ug/Kg	11/16/2022 23:36
Dibenzofuran	< 275	ug/Kg	11/16/2022 23:36
Diethyl phthalate	< 275	ug/Kg	11/16/2022 23:36
Dimethyl phthalate	< 275	ug/Kg	11/16/2022 23:36
Di-n-butyl phthalate	< 275	ug/Kg	11/16/2022 23:36
Di-n-octylphthalate	< 275	ug/Kg	11/16/2022 23:36
Fluoranthene	1760	ug/Kg	11/16/2022 23:36
Fluorene	< 275	ug/Kg	11/16/2022 23:36
Hexachlorobenzene	< 275	ug/Kg	11/16/2022 23:36

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02

Date Sampled: 11/7/2022 15:30

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 275	ug/Kg	11/16/2022	23:36
Hexachlorocyclopentadiene	< 1100	ug/Kg	11/16/2022	23:36
Hexachloroethane	< 275	ug/Kg	11/16/2022	23:36
Indeno (1,2,3-cd) pyrene	303	ug/Kg	11/16/2022	23:36
Isophorone	1630	ug/Kg	11/16/2022	23:36
Naphthalene	3720	ug/Kg	11/16/2022	23:36
Nitrobenzene	< 275	ug/Kg	11/16/2022	23:36
N-Nitroso-di-n-propylamine	< 275	ug/Kg	11/16/2022	23:36
N-Nitrosodiphenylamine	< 275	ug/Kg	11/16/2022	23:36
Pentachlorophenol	< 549	ug/Kg	11/16/2022	23:36
Phenanthrene	1570	ug/Kg	11/16/2022	23:36
Phenol	< 275	ug/Kg	11/16/2022	23:36
Pyrene	1400	ug/Kg	11/16/2022	23:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	3.16	35.4 - 92.4	*	11/16/2022 23:36
2-Fluorobiphenyl	77.3	39.6 - 84.4		11/16/2022 23:36
2-Fluorophenol	29.9	35.5 - 78.9		11/16/2022 23:36
Nitrobenzene-d5	69.2	36.5 - 78.2		11/16/2022 23:36
Phenol-d5	61.8	37.1 - 78.3		11/16/2022 23:36
Terphenyl-d14	84.6	42.3 - 103		11/16/2022 23:36

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65007.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 610	ug/Kg		11/14/2022 13:02
1,1,1-Trichloroethane	< 610	ug/Kg		11/14/2022 13:02
1,1,2,2-Tetrachloroethane	< 610	ug/Kg		11/14/2022 13:02
1,1,2-Trichloroethane	< 610	ug/Kg		11/14/2022 13:02
1,1-Dichloroethane	< 610	ug/Kg		11/14/2022 13:02

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Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02

Date Sampled: 11/7/2022 15:30

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 610	ug/Kg	11/14/2022 13:02
1,1-Dichloropropene	< 610	ug/Kg	11/14/2022 13:02
1,2,3-Trichlorobenzene	< 1520	ug/Kg	11/14/2022 13:02
1,2,3-Trichloropropane	< 610	ug/Kg	11/14/2022 13:02
1,2,4-Trichlorobenzene	< 1520	ug/Kg	11/14/2022 13:02
1,2,4-Trimethylbenzene	< 610	ug/Kg	11/14/2022 13:02
1,2-Dibromo-3-Chloropropane	< 3050	ug/Kg	11/14/2022 13:02
1,2-Dibromoethane	< 610	ug/Kg	11/14/2022 13:02
1,2-Dichlorobenzene	< 610	ug/Kg	11/14/2022 13:02
1,2-Dichloroethane	< 610	ug/Kg	11/14/2022 13:02
1,2-Dichloropropane	< 610	ug/Kg	11/14/2022 13:02
1,3,5-Trimethylbenzene	< 610	ug/Kg	11/14/2022 13:02
1,3-Dichlorobenzene	< 610	ug/Kg	11/14/2022 13:02
1,3-Dichloropropane	< 610	ug/Kg	11/14/2022 13:02
1,4-Dichlorobenzene	< 610	ug/Kg	11/14/2022 13:02
1,4-Dioxane	< 3050	ug/Kg	11/14/2022 13:02
2,2-Dichloropropane	< 610	ug/Kg	11/14/2022 13:02
2-Butanone	< 3050	ug/Kg	11/14/2022 13:02
2-Chlorotoluene	< 610	ug/Kg	11/14/2022 13:02
2-Hexanone	< 1520	ug/Kg	11/14/2022 13:02
4-Chlorotoluene	< 610	ug/Kg	11/14/2022 13:02
4-Methyl-2-pentanone	< 1520	ug/Kg	11/14/2022 13:02
Acetone	< 3050	ug/Kg	11/14/2022 13:02
Benzene	< 610	ug/Kg	11/14/2022 13:02
Bromobenzene	< 1520	ug/Kg	11/14/2022 13:02
Bromochloromethane	< 1520	ug/Kg	11/14/2022 13:02
Bromodichloromethane	< 610	ug/Kg	11/14/2022 13:02
Bromoform	< 1520	ug/Kg	11/14/2022 13:02
Bromomethane	< 610	ug/Kg	11/14/2022 13:02
Carbon disulfide	< 610	ug/Kg	11/14/2022 13:02

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02

Date Sampled: 11/7/2022 15:30

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 610	ug/Kg	11/14/2022 13:02
Chlorobenzene	< 610	ug/Kg	11/14/2022 13:02
Chloroethane	< 610	ug/Kg	11/14/2022 13:02
Chloroform	< 610	ug/Kg	11/14/2022 13:02
Chloromethane	< 610	ug/Kg	11/14/2022 13:02
cis-1,2-Dichloroethene	< 610	ug/Kg	11/14/2022 13:02
cis-1,3-Dichloropropene	< 610	ug/Kg	11/14/2022 13:02
Cyclohexane	< 3050	ug/Kg	11/14/2022 13:02
Dibromochloromethane	< 610	ug/Kg	11/14/2022 13:02
Dibromomethane	< 610	ug/Kg	11/14/2022 13:02
Dichlorodifluoromethane	< 610	ug/Kg	11/14/2022 13:02
Ethylbenzene	< 610	ug/Kg	11/14/2022 13:02
Freon 113	< 610	ug/Kg	11/14/2022 13:02
Isopropylbenzene	< 610	ug/Kg	11/14/2022 13:02
m,p-Xylene	771	ug/Kg	11/14/2022 13:02
Methyl acetate	2300	ug/Kg	11/14/2022 13:02
Methyl tert-butyl Ether	< 610	ug/Kg	11/14/2022 13:02
Methylcyclohexane	< 610	ug/Kg	11/14/2022 13:02
Methylene chloride	< 1520	ug/Kg	11/14/2022 13:02
Naphthalene	7870	ug/Kg	11/14/2022 13:02
n-Butylbenzene	< 610	ug/Kg	11/14/2022 13:02
n-Propylbenzene	< 610	ug/Kg	11/14/2022 13:02
o-Xylene	< 610	ug/Kg	11/14/2022 13:02
p-Isopropyltoluene	< 610	ug/Kg	11/14/2022 13:02
sec-Butylbenzene	< 610	ug/Kg	11/14/2022 13:02
Styrene	< 1520	ug/Kg	11/14/2022 13:02
tert-Butylbenzene	< 610	ug/Kg	11/14/2022 13:02
Tetrachloroethene	< 610	ug/Kg	11/14/2022 13:02
Toluene	682	ug/Kg	11/14/2022 13:02
trans-1,2-Dichloroethene	< 610	ug/Kg	11/14/2022 13:02

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02

Date Sampled: 11/7/2022 15:30

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 610	ug/Kg	11/14/2022	13:02
Trichloroethene	< 610	ug/Kg	11/14/2022	13:02
Trichlorofluoromethane	< 610	ug/Kg	11/14/2022	13:02
Vinyl chloride	< 610	ug/Kg	11/14/2022	13:02

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	94.9	74.7 - 140		11/14/2022 13:02
4-Bromofluorobenzene	90.2	68 - 130		11/14/2022 13:02
Pentafluorobenzene	101	70.3 - 140		11/14/2022 13:02
Toluene-D8	102	69 - 138		11/14/2022 13:02

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13425.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02A

Date Sampled: 11/7/2022 15:30

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/17/2022 16:30
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/17/2022 16:30
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/17/2022 16:30
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/17/2022 16:30
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/17/2022 16:30
Hexachlorobenzene	< 40.0	ug/L	130		11/17/2022 16:30
Hexachlorobutadiene	< 40.0	ug/L	500		11/17/2022 16:30
Hexachloroethane	< 40.0	ug/L	3000		11/17/2022 16:30
Nitrobenzene	< 40.0	ug/L	2000		11/17/2022 16:30
Pentachlorophenol	< 80.0	ug/L	100000		11/17/2022 16:30
Pyridine	< 40.0	ug/L	5000		11/17/2022 16:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	90.1	29.6 - 139		11/17/2022 16:30
2-Fluorobiphenyl	65.0	10 - 124		11/17/2022 16:30
2-Fluorophenol	65.5	10 - 122		11/17/2022 16:30
Nitrobenzene-d5	84.1	28.7 - 119		11/17/2022 16:30
Phenol-d5	73.7	10 - 115		11/17/2022 16:30
Terphenyl-d14	94.0	32.2 - 142		11/17/2022 16:30

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 11/16/2022
Data File: B65025.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		11/17/2022 14:56
1,2-Dichloroethane	< 20.0	ug/L	500		11/17/2022 14:56
2-Butanone	< 100	ug/L	200000		11/17/2022 14:56
Benzene	< 20.0	ug/L	500		11/17/2022 14:56

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP06E - 11072022

Lab Sample ID: 225421-02A

Date Sampled: 11/7/2022 15:30

Matrix: TCLP Extract

Date Received 11/9/2022

Carbon Tetrachloride	< 20.0	ug/L	500	11/17/2022	14:56
Chlorobenzene	< 20.0	ug/L	100000	11/17/2022	14:56
Chloroform	< 20.0	ug/L	6000	11/17/2022	14:56
Tetrachloroethene	< 20.0	ug/L	700	11/17/2022	14:56
Trichloroethene	< 20.0	ug/L	500	11/17/2022	14:56
Vinyl chloride	< 20.0	ug/L	200	11/17/2022	14:56

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	94.3	81.1 - 136		11/17/2022 14:56
4-Bromofluorobenzene	88.6	75.8 - 132		11/17/2022 14:56
Pentafluorobenzene	96.3	82 - 132		11/17/2022 14:56
Toluene-D8	94.9	64.6 - 137		11/17/2022 14:56

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z13542.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03

Date Sampled: 11/8/2022 11:15

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 284	ug/Kg		11/17/2022 00:05
1,2,4,5-Tetrachlorobenzene	< 284	ug/Kg		11/17/2022 00:05
1,2,4-Trichlorobenzene	< 284	ug/Kg		11/17/2022 00:05
1,2-Dichlorobenzene	< 284	ug/Kg		11/17/2022 00:05
1,3-Dichlorobenzene	< 284	ug/Kg		11/17/2022 00:05
1,4-Dichlorobenzene	< 284	ug/Kg		11/17/2022 00:05
2,2-Oxybis (1-chloropropane)	< 284	ug/Kg		11/17/2022 00:05
2,3,4,6-Tetrachlorophenol	< 284	ug/Kg		11/17/2022 00:05
2,4,5-Trichlorophenol	< 284	ug/Kg		11/17/2022 00:05
2,4,6-Trichlorophenol	< 284	ug/Kg		11/17/2022 00:05
2,4-Dichlorophenol	< 284	ug/Kg		11/17/2022 00:05
2,4-Dimethylphenol	< 284	ug/Kg		11/17/2022 00:05
2,4-Dinitrophenol	< 1140	ug/Kg		11/17/2022 00:05
2,4-Dinitrotoluene	< 284	ug/Kg		11/17/2022 00:05
2,6-Dinitrotoluene	< 284	ug/Kg		11/17/2022 00:05
2-Chloronaphthalene	< 284	ug/Kg		11/17/2022 00:05
2-Chlorophenol	< 284	ug/Kg		11/17/2022 00:05
2-Methylnapthalene	847	ug/Kg		11/17/2022 00:05
2-Methylphenol	< 284	ug/Kg		11/17/2022 00:05
2-Nitroaniline	< 284	ug/Kg		11/17/2022 00:05
2-Nitrophenol	< 284	ug/Kg		11/17/2022 00:05
3&4-Methylphenol	< 284	ug/Kg		11/17/2022 00:05
3,3'-Dichlorobenzidine	< 284	ug/Kg		11/17/2022 00:05
3-Nitroaniline	< 284	ug/Kg		11/17/2022 00:05
4,6-Dinitro-2-methylphenol	< 380	ug/Kg		11/17/2022 00:05
4-Bromophenyl phenyl ether	< 284	ug/Kg		11/17/2022 00:05
4-Chloro-3-methylphenol	< 284	ug/Kg		11/17/2022 00:05
4-Chloroaniline	< 284	ug/Kg		11/17/2022 00:05

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03

Date Sampled: 11/8/2022 11:15

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 284	ug/Kg	11/17/2022 00:05
4-Nitroaniline	< 284	ug/Kg	11/17/2022 00:05
4-Nitrophenol	< 284	ug/Kg	11/17/2022 00:05
Acenaphthene	< 284	ug/Kg	11/17/2022 00:05
Acenaphthylene	412	ug/Kg	11/17/2022 00:05
Acetophenone	< 284	ug/Kg	11/17/2022 00:05
Anthracene	1330	ug/Kg	11/17/2022 00:05
Atrazine	< 284	ug/Kg	11/17/2022 00:05
Benzaldehyde	< 284	ug/Kg	11/17/2022 00:05
Benzo (a) anthracene	3880	ug/Kg	11/17/2022 00:05
Benzo (a) pyrene	1870	ug/Kg	11/17/2022 00:05
Benzo (b) fluoranthene	3380	ug/Kg	11/17/2022 00:05
Benzo (g,h,i) perylene	2040	ug/Kg	11/17/2022 00:05
Benzo (k) fluoranthene	2380	ug/Kg	11/17/2022 00:05
Bis (2-chloroethoxy) methane	< 284	ug/Kg	11/17/2022 00:05
Bis (2-chloroethyl) ether	< 284	ug/Kg	11/17/2022 00:05
Bis (2-ethylhexyl) phthalate	< 284	ug/Kg	11/17/2022 00:05
Butylbenzylphthalate	< 284	ug/Kg	11/17/2022 00:05
Caprolactam	< 284	ug/Kg	11/17/2022 00:05
Carbazole	328	ug/Kg	11/17/2022 00:05
Chrysene	2940	ug/Kg	11/17/2022 00:05
Dibenz (a,h) anthracene	487	ug/Kg	11/17/2022 00:05
Dibenzofuran	617	ug/Kg	11/17/2022 00:05
Diethyl phthalate	< 284	ug/Kg	11/17/2022 00:05
Dimethyl phthalate	< 284	ug/Kg	11/17/2022 00:05
Di-n-butyl phthalate	< 284	ug/Kg	11/17/2022 00:05
Di-n-octylphthalate	< 284	ug/Kg	11/17/2022 00:05
Fluoranthene	10900	ug/Kg	11/17/2022 00:05
Fluorene	450	ug/Kg	11/17/2022 00:05
Hexachlorobenzene	< 284	ug/Kg	11/17/2022 00:05

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03

Date Sampled: 11/8/2022 11:15

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 284	ug/Kg	11/17/2022	00:05
Hexachlorocyclopentadiene	< 1140	ug/Kg	11/17/2022	00:05
Hexachloroethane	< 284	ug/Kg	11/17/2022	00:05
Indeno (1,2,3-cd) pyrene	2000	ug/Kg	11/17/2022	00:05
Isophorone	539	ug/Kg	11/17/2022	00:05
Naphthalene	4660	ug/Kg	11/17/2022	00:05
Nitrobenzene	< 284	ug/Kg	11/17/2022	00:05
N-Nitroso-di-n-propylamine	< 284	ug/Kg	11/17/2022	00:05
N-Nitrosodiphenylamine	< 284	ug/Kg	11/17/2022	00:05
Pentachlorophenol	< 568	ug/Kg	11/17/2022	00:05
Phenanthrene	9230	ug/Kg	11/17/2022	00:05
Phenol	682	ug/Kg	11/17/2022	00:05
Pyrene	7360	ug/Kg	11/17/2022	00:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	0.948	35.4 - 92.4	*	11/17/2022 00:05
2-Fluorobiphenyl	92.7	39.6 - 84.4	*	11/17/2022 00:05
2-Fluorophenol	18.7	35.5 - 78.9	*	11/17/2022 00:05
Nitrobenzene-d5	75.2	36.5 - 78.2		11/17/2022 00:05
Phenol-d5	64.7	37.1 - 78.3		11/17/2022 00:05
Terphenyl-d14	88.3	42.3 - 103		11/17/2022 00:05

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65008.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 719	ug/Kg		11/14/2022 14:27
1,1,1-Trichloroethane	< 719	ug/Kg		11/14/2022 14:27
1,1,2,2-Tetrachloroethane	< 719	ug/Kg		11/14/2022 14:27
1,1,2-Trichloroethane	< 719	ug/Kg		11/14/2022 14:27
1,1-Dichloroethane	< 719	ug/Kg		11/14/2022 14:27

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03

Date Sampled: 11/8/2022 11:15

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 719	ug/Kg	11/14/2022 14:27
1,1-Dichloropropene	< 719	ug/Kg	11/14/2022 14:27
1,2,3-Trichlorobenzene	< 1800	ug/Kg	11/14/2022 14:27
1,2,3-Trichloropropane	< 719	ug/Kg	11/14/2022 14:27
1,2,4-Trichlorobenzene	< 1800	ug/Kg	11/14/2022 14:27
1,2,4-Trimethylbenzene	< 719	ug/Kg	11/14/2022 14:27
1,2-Dibromo-3-Chloropropane	< 3600	ug/Kg	11/14/2022 14:27
1,2-Dibromoethane	< 719	ug/Kg	11/14/2022 14:27
1,2-Dichlorobenzene	< 719	ug/Kg	11/14/2022 14:27
1,2-Dichloroethane	< 719	ug/Kg	11/14/2022 14:27
1,2-Dichloropropane	< 719	ug/Kg	11/14/2022 14:27
1,3,5-Trimethylbenzene	< 719	ug/Kg	11/14/2022 14:27
1,3-Dichlorobenzene	< 719	ug/Kg	11/14/2022 14:27
1,3-Dichloropropane	< 719	ug/Kg	11/14/2022 14:27
1,4-Dichlorobenzene	< 719	ug/Kg	11/14/2022 14:27
1,4-Dioxane	< 3600	ug/Kg	11/14/2022 14:27
2,2-Dichloropropane	< 719	ug/Kg	11/14/2022 14:27
2-Butanone	< 3600	ug/Kg	11/14/2022 14:27
2-Chlorotoluene	< 719	ug/Kg	11/14/2022 14:27
2-Hexanone	< 1800	ug/Kg	11/14/2022 14:27
4-Chlorotoluene	< 719	ug/Kg	11/14/2022 14:27
4-Methyl-2-pentanone	< 1800	ug/Kg	11/14/2022 14:27
Acetone	< 3600	ug/Kg	11/14/2022 14:27
Benzene	< 719	ug/Kg	11/14/2022 14:27
Bromobenzene	< 1800	ug/Kg	11/14/2022 14:27
Bromochloromethane	< 1800	ug/Kg	11/14/2022 14:27
Bromodichloromethane	< 719	ug/Kg	11/14/2022 14:27
Bromoform	< 1800	ug/Kg	11/14/2022 14:27
Bromomethane	< 719	ug/Kg	11/14/2022 14:27
Carbon disulfide	< 719	ug/Kg	11/14/2022 14:27

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03

Date Sampled: 11/8/2022 11:15

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 719	ug/Kg	11/14/2022 14:27
Chlorobenzene	< 719	ug/Kg	11/14/2022 14:27
Chloroethane	< 719	ug/Kg	11/14/2022 14:27
Chloroform	< 719	ug/Kg	11/14/2022 14:27
Chloromethane	< 719	ug/Kg	11/14/2022 14:27
cis-1,2-Dichloroethene	< 719	ug/Kg	11/14/2022 14:27
cis-1,3-Dichloropropene	< 719	ug/Kg	11/14/2022 14:27
Cyclohexane	< 3600	ug/Kg	11/14/2022 14:27
Dibromochloromethane	< 719	ug/Kg	11/14/2022 14:27
Dibromomethane	< 719	ug/Kg	11/14/2022 14:27
Dichlorodifluoromethane	< 719	ug/Kg	11/14/2022 14:27
Ethylbenzene	< 719	ug/Kg	11/14/2022 14:27
Freon 113	< 719	ug/Kg	11/14/2022 14:27
Isopropylbenzene	< 719	ug/Kg	11/14/2022 14:27
m,p-Xylene	873	ug/Kg	11/14/2022 14:27
Methyl acetate	1540	ug/Kg	11/14/2022 14:27
Methyl tert-butyl Ether	< 719	ug/Kg	11/14/2022 14:27
Methylcyclohexane	< 719	ug/Kg	11/14/2022 14:27
Methylene chloride	< 1800	ug/Kg	11/14/2022 14:27
Naphthalene	8730	ug/Kg	11/14/2022 14:27
n-Butylbenzene	< 719	ug/Kg	11/14/2022 14:27
n-Propylbenzene	< 719	ug/Kg	11/14/2022 14:27
o-Xylene	< 719	ug/Kg	11/14/2022 14:27
p-Isopropyltoluene	< 719	ug/Kg	11/14/2022 14:27
sec-Butylbenzene	< 719	ug/Kg	11/14/2022 14:27
Styrene	< 1800	ug/Kg	11/14/2022 14:27
tert-Butylbenzene	< 719	ug/Kg	11/14/2022 14:27
Tetrachloroethene	< 719	ug/Kg	11/14/2022 14:27
Toluene	1070	ug/Kg	11/14/2022 14:27
trans-1,2-Dichloroethene	< 719	ug/Kg	11/14/2022 14:27

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03

Date Sampled: 11/8/2022 11:15

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 719	ug/Kg	11/14/2022	14:27
Trichloroethene	< 719	ug/Kg	11/14/2022	14:27
Trichlorofluoromethane	< 719	ug/Kg	11/14/2022	14:27
Vinyl chloride	< 719	ug/Kg	11/14/2022	14:27

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	99.1	74.7 - 140		11/14/2022 14:27
4-Bromofluorobenzene	90.6	68 - 130		11/14/2022 14:27
Pentafluorobenzene	94.6	70.3 - 140		11/14/2022 14:27
Toluene-D8	96.6	69 - 138		11/14/2022 14:27

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13429.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03A

Date Sampled: 11/8/2022 11:15

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/17/2022 16:59
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/17/2022 16:59
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/17/2022 16:59
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/17/2022 16:59
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/17/2022 16:59
Hexachlorobenzene	< 40.0	ug/L	130		11/17/2022 16:59
Hexachlorobutadiene	< 40.0	ug/L	500		11/17/2022 16:59
Hexachloroethane	< 40.0	ug/L	3000		11/17/2022 16:59
Nitrobenzene	< 40.0	ug/L	2000		11/17/2022 16:59
Pentachlorophenol	< 80.0	ug/L	100000		11/17/2022 16:59
Pyridine	< 40.0	ug/L	5000		11/17/2022 16:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	92.5	29.6 - 139		11/17/2022 16:59
2-Fluorobiphenyl	61.6	10 - 124		11/17/2022 16:59
2-Fluorophenol	67.9	10 - 122		11/17/2022 16:59
Nitrobenzene-d5	86.8	28.7 - 119		11/17/2022 16:59
Phenol-d5	76.7	10 - 115		11/17/2022 16:59
Terphenyl-d14	95.6	32.2 - 142		11/17/2022 16:59

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 11/16/2022
Data File: B65026.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		11/17/2022 14:36
1,2-Dichloroethane	< 20.0	ug/L	500		11/17/2022 14:36
2-Butanone	< 100	ug/L	200000		11/17/2022 14:36
Benzene	< 20.0	ug/L	500		11/17/2022 14:36

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - SCBULLETS - 11082022

Lab Sample ID: 225421-03A

Date Sampled: 11/8/2022 11:15

Matrix: TCLP Extract

Date Received 11/9/2022

Carbon Tetrachloride	< 20.0	ug/L	500	11/17/2022	14:36
Chlorobenzene	< 20.0	ug/L	100000	11/17/2022	14:36
Chloroform	< 20.0	ug/L	6000	11/17/2022	14:36
Tetrachloroethene	< 20.0	ug/L	700	11/17/2022	14:36
Trichloroethene	< 20.0	ug/L	500	11/17/2022	14:36
Vinyl chloride	< 20.0	ug/L	200	11/17/2022	14:36

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	99.6	81.1 - 136		11/17/2022 14:36
4-Bromofluorobenzene	92.3	75.8 - 132		11/17/2022 14:36
Pentafluorobenzene	102	82 - 132		11/17/2022 14:36
Toluene-D8	101	64.6 - 137		11/17/2022 14:36

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z13541.D

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04

Date Sampled: 11/8/2022 11:20

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1230	ug/Kg		11/17/2022 00:34
1,2,4,5-Tetrachlorobenzene	< 1230	ug/Kg		11/17/2022 00:34
1,2,4-Trichlorobenzene	< 1230	ug/Kg		11/17/2022 00:34
1,2-Dichlorobenzene	< 1230	ug/Kg		11/17/2022 00:34
1,3-Dichlorobenzene	< 1230	ug/Kg		11/17/2022 00:34
1,4-Dichlorobenzene	< 1230	ug/Kg		11/17/2022 00:34
2,2-Oxybis (1-chloropropane)	< 1230	ug/Kg		11/17/2022 00:34
2,3,4,6-Tetrachlorophenol	< 1230	ug/Kg		11/17/2022 00:34
2,4,5-Trichlorophenol	< 1230	ug/Kg		11/17/2022 00:34
2,4,6-Trichlorophenol	< 1230	ug/Kg		11/17/2022 00:34
2,4-Dichlorophenol	< 1230	ug/Kg		11/17/2022 00:34
2,4-Dimethylphenol	< 1230	ug/Kg		11/17/2022 00:34
2,4-Dinitrophenol	< 4900	ug/Kg		11/17/2022 00:34
2,4-Dinitrotoluene	< 1230	ug/Kg		11/17/2022 00:34
2,6-Dinitrotoluene	< 1230	ug/Kg		11/17/2022 00:34
2-Chloronaphthalene	< 1230	ug/Kg		11/17/2022 00:34
2-Chlorophenol	< 1230	ug/Kg		11/17/2022 00:34
2-Methylnapthalene	2280	ug/Kg		11/17/2022 00:34
2-Methylphenol	< 1230	ug/Kg		11/17/2022 00:34
2-Nitroaniline	< 1230	ug/Kg		11/17/2022 00:34
2-Nitrophenol	< 1230	ug/Kg		11/17/2022 00:34
3&4-Methylphenol	< 1230	ug/Kg		11/17/2022 00:34
3,3'-Dichlorobenzidine	< 1230	ug/Kg		11/17/2022 00:34
3-Nitroaniline	< 1230	ug/Kg		11/17/2022 00:34
4,6-Dinitro-2-methylphenol	< 1640	ug/Kg		11/17/2022 00:34
4-Bromophenyl phenyl ether	< 1230	ug/Kg		11/17/2022 00:34
4-Chloro-3-methylphenol	< 1230	ug/Kg		11/17/2022 00:34
4-Chloroaniline	< 1230	ug/Kg		11/17/2022 00:34

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04

Date Sampled: 11/8/2022 11:20

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 1230	ug/Kg	11/17/2022 00:34
4-Nitroaniline	< 1230	ug/Kg	11/17/2022 00:34
4-Nitrophenol	< 1230	ug/Kg	11/17/2022 00:34
Acenaphthene	< 1230	ug/Kg	11/17/2022 00:34
Acenaphthylene	< 1230	ug/Kg	11/17/2022 00:34
Acetophenone	< 1230	ug/Kg	11/17/2022 00:34
Anthracene	< 1230	ug/Kg	11/17/2022 00:34
Atrazine	< 1230	ug/Kg	11/17/2022 00:34
Benzaldehyde	< 1230	ug/Kg	11/17/2022 00:34
Benzo (a) anthracene	3040	ug/Kg	11/17/2022 00:34
Benzo (a) pyrene	2720	ug/Kg	11/17/2022 00:34
Benzo (b) fluoranthene	3440	ug/Kg	11/17/2022 00:34
Benzo (g,h,i) perylene	1680	ug/Kg	11/17/2022 00:34
Benzo (k) fluoranthene	2990	ug/Kg	11/17/2022 00:34
Bis (2-chloroethoxy) methane	< 1230	ug/Kg	11/17/2022 00:34
Bis (2-chloroethyl) ether	< 1230	ug/Kg	11/17/2022 00:34
Bis (2-ethylhexyl) phthalate	10600	ug/Kg	11/17/2022 00:34
Butylbenzylphthalate	< 1230	ug/Kg	11/17/2022 00:34
Caprolactam	< 1230	ug/Kg	11/17/2022 00:34
Carbazole	< 1230	ug/Kg	11/17/2022 00:34
Chrysene	5670	ug/Kg	11/17/2022 00:34
Dibenz (a,h) anthracene	< 1230	ug/Kg	11/17/2022 00:34
Dibenzofuran	< 1230	ug/Kg	11/17/2022 00:34
Diethyl phthalate	< 1230	ug/Kg	11/17/2022 00:34
Dimethyl phthalate	< 1230	ug/Kg	11/17/2022 00:34
Di-n-butyl phthalate	< 1230	ug/Kg	11/17/2022 00:34
Di-n-octylphthalate	< 1230	ug/Kg	11/17/2022 00:34
Fluoranthene	12800	ug/Kg	11/17/2022 00:34
Fluorene	< 1230	ug/Kg	11/17/2022 00:34
Hexachlorobenzene	< 1230	ug/Kg	11/17/2022 00:34

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04

Date Sampled: 11/8/2022 11:20

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 1230	ug/Kg	11/17/2022	00:34
Hexachlorocyclopentadiene	< 4900	ug/Kg	11/17/2022	00:34
Hexachloroethane	< 1230	ug/Kg	11/17/2022	00:34
Indeno (1,2,3-cd) pyrene	1720	ug/Kg	11/17/2022	00:34
Isophorone	< 1230	ug/Kg	11/17/2022	00:34
Naphthalene	20800	ug/Kg	11/17/2022	00:34
Nitrobenzene	< 1230	ug/Kg	11/17/2022	00:34
N-Nitroso-di-n-propylamine	< 1230	ug/Kg	11/17/2022	00:34
N-Nitrosodiphenylamine	< 1230	ug/Kg	11/17/2022	00:34
Pentachlorophenol	< 2450	ug/Kg	11/17/2022	00:34
Phenanthrene	7730	ug/Kg	11/17/2022	00:34
Phenol	< 1230	ug/Kg	11/17/2022	00:34
Pyrene	10900	ug/Kg	11/17/2022	00:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	48.8	35.4 - 92.4		11/17/2022 00:34
2-Fluorobiphenyl	92.3	39.6 - 84.4	*	11/17/2022 00:34
2-Fluorophenol	62.7	35.5 - 78.9		11/17/2022 00:34
Nitrobenzene-d5	83.6	36.5 - 78.2	*	11/17/2022 00:34
Phenol-d5	81.9	37.1 - 78.3		11/17/2022 00:34
Terphenyl-d14	97.8	42.3 - 103		11/17/2022 00:34

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65009.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 565	ug/Kg		11/14/2022 14:47
1,1,1-Trichloroethane	< 565	ug/Kg		11/14/2022 14:47
1,1,2,2-Tetrachloroethane	< 565	ug/Kg		11/14/2022 14:47
1,1,2-Trichloroethane	< 565	ug/Kg		11/14/2022 14:47
1,1-Dichloroethane	< 565	ug/Kg		11/14/2022 14:47

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04

Date Sampled: 11/8/2022 11:20

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 565	ug/Kg	11/14/2022 14:47
1,1-Dichloropropene	< 565	ug/Kg	11/14/2022 14:47
1,2,3-Trichlorobenzene	< 1410	ug/Kg	11/14/2022 14:47
1,2,3-Trichloropropane	< 565	ug/Kg	11/14/2022 14:47
1,2,4-Trichlorobenzene	< 1410	ug/Kg	11/14/2022 14:47
1,2,4-Trimethylbenzene	894	ug/Kg	11/14/2022 14:47
1,2-Dibromo-3-Chloropropane	< 2820	ug/Kg	11/14/2022 14:47
1,2-Dibromoethane	< 565	ug/Kg	11/14/2022 14:47
1,2-Dichlorobenzene	< 565	ug/Kg	11/14/2022 14:47
1,2-Dichloroethane	< 565	ug/Kg	11/14/2022 14:47
1,2-Dichloropropane	< 565	ug/Kg	11/14/2022 14:47
1,3,5-Trimethylbenzene	670	ug/Kg	11/14/2022 14:47
1,3-Dichlorobenzene	< 565	ug/Kg	11/14/2022 14:47
1,3-Dichloropropane	< 565	ug/Kg	11/14/2022 14:47
1,4-Dichlorobenzene	< 565	ug/Kg	11/14/2022 14:47
1,4-Dioxane	< 2820	ug/Kg	11/14/2022 14:47
2,2-Dichloropropane	< 565	ug/Kg	11/14/2022 14:47
2-Butanone	< 2820	ug/Kg	11/14/2022 14:47
2-Chlorotoluene	< 565	ug/Kg	11/14/2022 14:47
2-Hexanone	< 1410	ug/Kg	11/14/2022 14:47
4-Chlorotoluene	< 565	ug/Kg	11/14/2022 14:47
4-Methyl-2-pentanone	< 1410	ug/Kg	11/14/2022 14:47
Acetone	< 2820	ug/Kg	11/14/2022 14:47
Benzene	< 565	ug/Kg	11/14/2022 14:47
Bromobenzene	< 1410	ug/Kg	11/14/2022 14:47
Bromochloromethane	< 1410	ug/Kg	11/14/2022 14:47
Bromodichloromethane	< 565	ug/Kg	11/14/2022 14:47
Bromoform	< 1410	ug/Kg	11/14/2022 14:47
Bromomethane	< 565	ug/Kg	11/14/2022 14:47
Carbon disulfide	< 565	ug/Kg	11/14/2022 14:47

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04

Date Sampled: 11/8/2022 11:20

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 565	ug/Kg	11/14/2022 14:47
Chlorobenzene	< 565	ug/Kg	11/14/2022 14:47
Chloroethane	< 565	ug/Kg	11/14/2022 14:47
Chloroform	< 565	ug/Kg	11/14/2022 14:47
Chloromethane	< 565	ug/Kg	11/14/2022 14:47
cis-1,2-Dichloroethene	< 565	ug/Kg	11/14/2022 14:47
cis-1,3-Dichloropropene	< 565	ug/Kg	11/14/2022 14:47
Cyclohexane	< 2820	ug/Kg	11/14/2022 14:47
Dibromochloromethane	< 565	ug/Kg	11/14/2022 14:47
Dibromomethane	< 565	ug/Kg	11/14/2022 14:47
Dichlorodifluoromethane	< 565	ug/Kg	11/14/2022 14:47
Ethylbenzene	< 565	ug/Kg	11/14/2022 14:47
Freon 113	< 565	ug/Kg	11/14/2022 14:47
Isopropylbenzene	< 565	ug/Kg	11/14/2022 14:47
m,p-Xylene	2520	ug/Kg	11/14/2022 14:47
Methyl acetate	1630	ug/Kg	11/14/2022 14:47
Methyl tert-butyl Ether	< 565	ug/Kg	11/14/2022 14:47
Methylcyclohexane	< 565	ug/Kg	11/14/2022 14:47
Methylene chloride	< 1410	ug/Kg	11/14/2022 14:47
Naphthalene	17200	ug/Kg	11/14/2022 14:47
n-Butylbenzene	< 565	ug/Kg	11/14/2022 14:47
n-Propylbenzene	< 565	ug/Kg	11/14/2022 14:47
o-Xylene	638	ug/Kg	11/14/2022 14:47
p-Isopropyltoluene	< 565	ug/Kg	11/14/2022 14:47
sec-Butylbenzene	< 565	ug/Kg	11/14/2022 14:47
Styrene	< 1410	ug/Kg	11/14/2022 14:47
tert-Butylbenzene	< 565	ug/Kg	11/14/2022 14:47
Tetrachloroethene	< 565	ug/Kg	11/14/2022 14:47
Toluene	1030	ug/Kg	11/14/2022 14:47
trans-1,2-Dichloroethene	< 565	ug/Kg	11/14/2022 14:47

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04

Date Sampled: 11/8/2022 11:20

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 565	ug/Kg	11/14/2022	14:47
Trichloroethene	< 565	ug/Kg	11/14/2022	14:47
Trichlorofluoromethane	< 565	ug/Kg	11/14/2022	14:47
Vinyl chloride	< 565	ug/Kg	11/14/2022	14:47

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	98.2	74.7 - 140		11/14/2022 14:47
4-Bromofluorobenzene	91.1	68 - 130		11/14/2022 14:47
Pentafluorobenzene	99.5	70.3 - 140		11/14/2022 14:47
Toluene-D8	98.0	69 - 138		11/14/2022 14:47

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13430.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04A

Date Sampled: 11/8/2022 11:20

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/17/2022 17:28
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/17/2022 17:28
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/17/2022 17:28
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/17/2022 17:28
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/17/2022 17:28
Hexachlorobenzene	< 40.0	ug/L	130		11/17/2022 17:28
Hexachlorobutadiene	< 40.0	ug/L	500		11/17/2022 17:28
Hexachloroethane	< 40.0	ug/L	3000		11/17/2022 17:28
Nitrobenzene	< 40.0	ug/L	2000		11/17/2022 17:28
Pentachlorophenol	< 80.0	ug/L	100000		11/17/2022 17:28
Pyridine	< 40.0	ug/L	5000		11/17/2022 17:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	88.4	29.6 - 139		11/17/2022 17:28
2-Fluorobiphenyl	61.5	10 - 124		11/17/2022 17:28
2-Fluorophenol	62.2	10 - 122		11/17/2022 17:28
Nitrobenzene-d5	80.8	28.7 - 119		11/17/2022 17:28
Phenol-d5	71.5	10 - 115		11/17/2022 17:28
Terphenyl-d14	91.7	32.2 - 142		11/17/2022 17:28

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 11/16/2022
Data File: B65027.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		11/17/2022 14:17
1,2-Dichloroethane	< 20.0	ug/L	500		11/17/2022 14:17
2-Butanone	< 100	ug/L	200000		11/17/2022 14:17
Benzene	< 20.0	ug/L	500		11/17/2022 14:17

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04S - 11082022

Lab Sample ID: 225421-04A

Date Sampled: 11/8/2022 11:20

Matrix: TCLP Extract

Date Received 11/9/2022

Carbon Tetrachloride	< 20.0	ug/L	500	11/17/2022	14:17
Chlorobenzene	< 20.0	ug/L	100000	11/17/2022	14:17
Chloroform	< 20.0	ug/L	6000	11/17/2022	14:17
Tetrachloroethene	< 20.0	ug/L	700	11/17/2022	14:17
Trichloroethene	< 20.0	ug/L	500	11/17/2022	14:17
Vinyl chloride	< 20.0	ug/L	200	11/17/2022	14:17

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	99.9	81.1 - 136		11/17/2022 14:17
4-Bromofluorobenzene	93.8	75.8 - 132		11/17/2022 14:17
Pentafluorobenzene	107	82 - 132		11/17/2022 14:17
Toluene-D8	108	64.6 - 137		11/17/2022 14:17

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z13540.D

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05

Date Sampled: 11/8/2022 11:25

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	303	ug/Kg		11/17/2022 01:03
1,2,4,5-Tetrachlorobenzene	< 281	ug/Kg		11/17/2022 01:03
1,2,4-Trichlorobenzene	< 281	ug/Kg		11/17/2022 01:03
1,2-Dichlorobenzene	< 281	ug/Kg		11/17/2022 01:03
1,3-Dichlorobenzene	< 281	ug/Kg		11/17/2022 01:03
1,4-Dichlorobenzene	< 281	ug/Kg		11/17/2022 01:03
2,2-Oxybis (1-chloropropane)	< 281	ug/Kg		11/17/2022 01:03
2,3,4,6-Tetrachlorophenol	< 281	ug/Kg		11/17/2022 01:03
2,4,5-Trichlorophenol	< 281	ug/Kg		11/17/2022 01:03
2,4,6-Trichlorophenol	< 281	ug/Kg		11/17/2022 01:03
2,4-Dichlorophenol	< 281	ug/Kg		11/17/2022 01:03
2,4-Dimethylphenol	< 281	ug/Kg		11/17/2022 01:03
2,4-Dinitrophenol	< 1120	ug/Kg		11/17/2022 01:03
2,4-Dinitrotoluene	< 281	ug/Kg		11/17/2022 01:03
2,6-Dinitrotoluene	< 281	ug/Kg		11/17/2022 01:03
2-Chloronaphthalene	< 281	ug/Kg		11/17/2022 01:03
2-Chlorophenol	< 281	ug/Kg		11/17/2022 01:03
2-Methylnapthalene	1830	ug/Kg		11/17/2022 01:03
2-Methylphenol	< 281	ug/Kg		11/17/2022 01:03
2-Nitroaniline	< 281	ug/Kg		11/17/2022 01:03
2-Nitrophenol	< 281	ug/Kg		11/17/2022 01:03
3&4-Methylphenol	< 281	ug/Kg		11/17/2022 01:03
3,3'-Dichlorobenzidine	< 281	ug/Kg		11/17/2022 01:03
3-Nitroaniline	< 281	ug/Kg		11/17/2022 01:03
4,6-Dinitro-2-methylphenol	< 376	ug/Kg		11/17/2022 01:03
4-Bromophenyl phenyl ether	< 281	ug/Kg		11/17/2022 01:03
4-Chloro-3-methylphenol	< 281	ug/Kg		11/17/2022 01:03
4-Chloroaniline	< 281	ug/Kg		11/17/2022 01:03

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Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05

Date Sampled: 11/8/2022 11:25

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 281	ug/Kg	11/17/2022 01:03
4-Nitroaniline	< 281	ug/Kg	11/17/2022 01:03
4-Nitrophenol	< 281	ug/Kg	11/17/2022 01:03
Acenaphthene	506	ug/Kg	11/17/2022 01:03
Acenaphthylene	342	ug/Kg	11/17/2022 01:03
Acetophenone	< 281	ug/Kg	11/17/2022 01:03
Anthracene	1890	ug/Kg	11/17/2022 01:03
Atrazine	< 281	ug/Kg	11/17/2022 01:03
Benzaldehyde	< 281	ug/Kg	11/17/2022 01:03
Benzo (a) anthracene	2410	ug/Kg	11/17/2022 01:03
Benzo (a) pyrene	1900	ug/Kg	11/17/2022 01:03
Benzo (b) fluoranthene	2950	ug/Kg	11/17/2022 01:03
Benzo (g,h,i) perylene	2230	ug/Kg	11/17/2022 01:03
Benzo (k) fluoranthene	1970	ug/Kg	11/17/2022 01:03
Bis (2-chloroethoxy) methane	< 281	ug/Kg	11/17/2022 01:03
Bis (2-chloroethyl) ether	< 281	ug/Kg	11/17/2022 01:03
Bis (2-ethylhexyl) phthalate	2110	ug/Kg	11/17/2022 01:03
Butylbenzylphthalate	< 281	ug/Kg	11/17/2022 01:03
Caprolactam	< 281	ug/Kg	11/17/2022 01:03
Carbazole	1210	ug/Kg	11/17/2022 01:03
Chrysene	3620	ug/Kg	11/17/2022 01:03
Dibenz (a,h) anthracene	456	ug/Kg	11/17/2022 01:03
Dibenzofuran	706	ug/Kg	11/17/2022 01:03
Diethyl phthalate	< 281	ug/Kg	11/17/2022 01:03
Dimethyl phthalate	< 281	ug/Kg	11/17/2022 01:03
Di-n-butyl phthalate	< 281	ug/Kg	11/17/2022 01:03
Di-n-octylphthalate	< 281	ug/Kg	11/17/2022 01:03
Fluoranthene	< 281	ug/Kg	11/17/2022 01:03
Fluorene	924	ug/Kg	11/17/2022 01:03
Hexachlorobenzene	< 281	ug/Kg	11/17/2022 01:03

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05

Date Sampled: 11/8/2022 11:25

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 281	ug/Kg	11/17/2022	01:03
Hexachlorocyclopentadiene	< 1120	ug/Kg	11/17/2022	01:03
Hexachloroethane	< 281	ug/Kg	11/17/2022	01:03
Indeno (1,2,3-cd) pyrene	< 281	ug/Kg	11/17/2022	01:03
Isophorone	1050	ug/Kg	11/17/2022	01:03
Naphthalene	10300	ug/Kg	11/17/2022	01:03
Nitrobenzene	< 281	ug/Kg	11/17/2022	01:03
N-Nitroso-di-n-propylamine	< 281	ug/Kg	11/17/2022	01:03
N-Nitrosodiphenylamine	< 281	ug/Kg	11/17/2022	01:03
Pentachlorophenol	< 562	ug/Kg	11/17/2022	01:03
Phenanthrene	7650	ug/Kg	11/17/2022	01:03
Phenol	< 281	ug/Kg	11/17/2022	01:03
Pyrene	6900	ug/Kg	11/17/2022	01:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	0.970	35.4 - 92.4	*	11/17/2022 01:03
2-Fluorobiphenyl	80.2	39.6 - 84.4		11/17/2022 01:03
2-Fluorophenol	18.0	35.5 - 78.9	*	11/17/2022 01:03
Nitrobenzene-d5	69.2	36.5 - 78.2		11/17/2022 01:03
Phenol-d5	55.5	37.1 - 78.3		11/17/2022 01:03
Terphenyl-d14	89.2	42.3 - 103		11/17/2022 01:03

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65010.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 980	ug/Kg		11/14/2022 15:06
1,1,1-Trichloroethane	< 980	ug/Kg		11/14/2022 15:06
1,1,2,2-Tetrachloroethane	< 980	ug/Kg		11/14/2022 15:06
1,1,2-Trichloroethane	< 980	ug/Kg		11/14/2022 15:06
1,1-Dichloroethane	< 980	ug/Kg		11/14/2022 15:06

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05

Date Sampled: 11/8/2022 11:25

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 980	ug/Kg	11/14/2022 15:06
1,1-Dichloropropene	< 980	ug/Kg	11/14/2022 15:06
1,2,3-Trichlorobenzene	< 2450	ug/Kg	11/14/2022 15:06
1,2,3-Trichloropropane	< 980	ug/Kg	11/14/2022 15:06
1,2,4-Trichlorobenzene	< 2450	ug/Kg	11/14/2022 15:06
1,2,4-Trimethylbenzene	< 980	ug/Kg	11/14/2022 15:06
1,2-Dibromo-3-Chloropropane	< 4900	ug/Kg	11/14/2022 15:06
1,2-Dibromoethane	< 980	ug/Kg	11/14/2022 15:06
1,2-Dichlorobenzene	< 980	ug/Kg	11/14/2022 15:06
1,2-Dichloroethane	< 980	ug/Kg	11/14/2022 15:06
1,2-Dichloropropane	< 980	ug/Kg	11/14/2022 15:06
1,3,5-Trimethylbenzene	< 980	ug/Kg	11/14/2022 15:06
1,3-Dichlorobenzene	< 980	ug/Kg	11/14/2022 15:06
1,3-Dichloropropane	< 980	ug/Kg	11/14/2022 15:06
1,4-Dichlorobenzene	< 980	ug/Kg	11/14/2022 15:06
1,4-Dioxane	< 4900	ug/Kg	11/14/2022 15:06
2,2-Dichloropropane	< 980	ug/Kg	11/14/2022 15:06
2-Butanone	< 4900	ug/Kg	11/14/2022 15:06
2-Chlorotoluene	< 980	ug/Kg	11/14/2022 15:06
2-Hexanone	< 2450	ug/Kg	11/14/2022 15:06
4-Chlorotoluene	< 980	ug/Kg	11/14/2022 15:06
4-Methyl-2-pentanone	< 2450	ug/Kg	11/14/2022 15:06
Acetone	< 4900	ug/Kg	11/14/2022 15:06
Benzene	< 980	ug/Kg	11/14/2022 15:06
Bromobenzene	< 2450	ug/Kg	11/14/2022 15:06
Bromochloromethane	< 2450	ug/Kg	11/14/2022 15:06
Bromodichloromethane	< 980	ug/Kg	11/14/2022 15:06
Bromoform	< 2450	ug/Kg	11/14/2022 15:06
Bromomethane	< 980	ug/Kg	11/14/2022 15:06
Carbon disulfide	< 980	ug/Kg	11/14/2022 15:06

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05

Date Sampled: 11/8/2022 11:25

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 980	ug/Kg	11/14/2022	15:06
Chlorobenzene	< 980	ug/Kg	11/14/2022	15:06
Chloroethane	< 980	ug/Kg	11/14/2022	15:06
Chloroform	< 980	ug/Kg	11/14/2022	15:06
Chloromethane	< 980	ug/Kg	11/14/2022	15:06
cis-1,2-Dichloroethene	< 980	ug/Kg	11/14/2022	15:06
cis-1,3-Dichloropropene	< 980	ug/Kg	11/14/2022	15:06
Cyclohexane	< 4900	ug/Kg	11/14/2022	15:06
Dibromochloromethane	< 980	ug/Kg	11/14/2022	15:06
Dibromomethane	< 980	ug/Kg	11/14/2022	15:06
Dichlorodifluoromethane	< 980	ug/Kg	11/14/2022	15:06
Ethylbenzene	< 980	ug/Kg	11/14/2022	15:06
Freon 113	< 980	ug/Kg	11/14/2022	15:06
Isopropylbenzene	< 980	ug/Kg	11/14/2022	15:06
m,p-Xylene	1170	ug/Kg	11/14/2022	15:06
Methyl acetate	4120	ug/Kg	11/14/2022	15:06
Methyl tert-butyl Ether	< 980	ug/Kg	11/14/2022	15:06
Methylcyclohexane	< 980	ug/Kg	11/14/2022	15:06
Methylene chloride	< 2450	ug/Kg	11/14/2022	15:06
Naphthalene	13200	ug/Kg	11/14/2022	15:06
n-Butylbenzene	< 980	ug/Kg	11/14/2022	15:06
n-Propylbenzene	< 980	ug/Kg	11/14/2022	15:06
o-Xylene	< 980	ug/Kg	11/14/2022	15:06
p-Isopropyltoluene	< 980	ug/Kg	11/14/2022	15:06
sec-Butylbenzene	< 980	ug/Kg	11/14/2022	15:06
Styrene	< 2450	ug/Kg	11/14/2022	15:06
tert-Butylbenzene	< 980	ug/Kg	11/14/2022	15:06
Tetrachloroethene	< 980	ug/Kg	11/14/2022	15:06
Toluene	< 980	ug/Kg	11/14/2022	15:06
trans-1,2-Dichloroethene	< 980	ug/Kg	11/14/2022	15:06

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05

Date Sampled: 11/8/2022 11:25

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 980	ug/Kg	11/14/2022	15:06
Trichloroethene	< 980	ug/Kg	11/14/2022	15:06
Trichlorofluoromethane	< 980	ug/Kg	11/14/2022	15:06
Vinyl chloride	< 980	ug/Kg	11/14/2022	15:06

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	98.0	74.7 - 140		11/14/2022 15:06
4-Bromofluorobenzene	93.0	68 - 130		11/14/2022 15:06
Pentafluorobenzene	98.9	70.3 - 140		11/14/2022 15:06
Toluene-D8	98.2	69 - 138		11/14/2022 15:06

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13431.D

Client: **Inventum Engineering, P.C.**

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05A

Date Sampled: 11/8/2022 11:25

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/17/2022 17:56
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/17/2022 17:56
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/17/2022 17:56
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/17/2022 17:56
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/17/2022 17:56
Hexachlorobenzene	< 40.0	ug/L	130		11/17/2022 17:56
Hexachlorobutadiene	< 40.0	ug/L	500		11/17/2022 17:56
Hexachloroethane	< 40.0	ug/L	3000		11/17/2022 17:56
Nitrobenzene	< 40.0	ug/L	2000		11/17/2022 17:56
Pentachlorophenol	< 80.0	ug/L	100000		11/17/2022 17:56
Pyridine	< 40.0	ug/L	5000		11/17/2022 17:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	77.1	29.6 - 139		11/17/2022 17:56
2-Fluorobiphenyl	60.9	10 - 124		11/17/2022 17:56
2-Fluorophenol	47.9	10 - 122		11/17/2022 17:56
Nitrobenzene-d5	79.3	28.7 - 119		11/17/2022 17:56
Phenol-d5	64.9	10 - 115		11/17/2022 17:56
Terphenyl-d14	94.3	32.2 - 142		11/17/2022 17:56

Method Reference(s): EPA 8270D
 EPA 1311 / 3510C
 Preparation Date: 11/16/2022
 Data File: B65028.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		11/17/2022 13:58
1,2-Dichloroethane	< 20.0	ug/L	500		11/17/2022 13:58
2-Butanone	< 100	ug/L	200000		11/17/2022 13:58
Benzene	< 20.0	ug/L	500		11/17/2022 13:58

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP04N - 11082022

Lab Sample ID: 225421-05A

Date Sampled: 11/8/2022 11:25

Matrix: TCLP Extract

Date Received 11/9/2022

Carbon Tetrachloride	< 20.0	ug/L	500	11/17/2022	13:58
Chlorobenzene	< 20.0	ug/L	100000	11/17/2022	13:58
Chloroform	< 20.0	ug/L	6000	11/17/2022	13:58
Tetrachloroethene	< 20.0	ug/L	700	11/17/2022	13:58
Trichloroethene	< 20.0	ug/L	500	11/17/2022	13:58
Vinyl chloride	< 20.0	ug/L	200	11/17/2022	13:58

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	99.1	81.1 - 136		11/17/2022 13:58
4-Bromofluorobenzene	86.7	75.8 - 132		11/17/2022 13:58
Pentafluorobenzene	95.0	82 - 132		11/17/2022 13:58
Toluene-D8	102	64.6 - 137		11/17/2022 13:58

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z13539.D

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06

Date Sampled: 11/8/2022 11:35

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1310	ug/Kg		11/17/2022 01:33
1,2,4,5-Tetrachlorobenzene	< 1310	ug/Kg		11/17/2022 01:33
1,2,4-Trichlorobenzene	< 1310	ug/Kg		11/17/2022 01:33
1,2-Dichlorobenzene	< 1310	ug/Kg		11/17/2022 01:33
1,3-Dichlorobenzene	< 1310	ug/Kg		11/17/2022 01:33
1,4-Dichlorobenzene	< 1310	ug/Kg		11/17/2022 01:33
2,2-Oxybis (1-chloropropane)	< 1310	ug/Kg		11/17/2022 01:33
2,3,4,6-Tetrachlorophenol	< 1310	ug/Kg		11/17/2022 01:33
2,4,5-Trichlorophenol	< 1310	ug/Kg		11/17/2022 01:33
2,4,6-Trichlorophenol	< 1310	ug/Kg		11/17/2022 01:33
2,4-Dichlorophenol	< 1310	ug/Kg		11/17/2022 01:33
2,4-Dimethylphenol	< 1310	ug/Kg		11/17/2022 01:33
2,4-Dinitrophenol	< 5240	ug/Kg		11/17/2022 01:33
2,4-Dinitrotoluene	< 1310	ug/Kg		11/17/2022 01:33
2,6-Dinitrotoluene	< 1310	ug/Kg		11/17/2022 01:33
2-Chloronaphthalene	< 1310	ug/Kg		11/17/2022 01:33
2-Chlorophenol	< 1310	ug/Kg		11/17/2022 01:33
2-Methylnapthalene	6530	ug/Kg		11/17/2022 01:33
2-Methylphenol	< 1310	ug/Kg		11/17/2022 01:33
2-Nitroaniline	< 1310	ug/Kg		11/17/2022 01:33
2-Nitrophenol	< 1310	ug/Kg		11/17/2022 01:33
3&4-Methylphenol	3200	ug/Kg		11/17/2022 01:33
3,3'-Dichlorobenzidine	< 1310	ug/Kg		11/17/2022 01:33
3-Nitroaniline	< 1310	ug/Kg		11/17/2022 01:33
4,6-Dinitro-2-methylphenol	< 1750	ug/Kg		11/17/2022 01:33
4-Bromophenyl phenyl ether	< 1310	ug/Kg		11/17/2022 01:33
4-Chloro-3-methylphenol	< 1310	ug/Kg		11/17/2022 01:33
4-Chloroaniline	< 1310	ug/Kg		11/17/2022 01:33

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06

Date Sampled: 11/8/2022 11:35

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 1310	ug/Kg	11/17/2022 01:33
4-Nitroaniline	< 1310	ug/Kg	11/17/2022 01:33
4-Nitrophenol	< 1310	ug/Kg	11/17/2022 01:33
Acenaphthene	< 1310	ug/Kg	11/17/2022 01:33
Acenaphthylene	3610	ug/Kg	11/17/2022 01:33
Acetophenone	< 1310	ug/Kg	11/17/2022 01:33
Anthracene	< 1310	ug/Kg	11/17/2022 01:33
Atrazine	< 1310	ug/Kg	11/17/2022 01:33
Benzaldehyde	< 1310	ug/Kg	11/17/2022 01:33
Benzo (a) anthracene	2740	ug/Kg	11/17/2022 01:33
Benzo (a) pyrene	2030	ug/Kg	11/17/2022 01:33
Benzo (b) fluoranthene	4640	ug/Kg	11/17/2022 01:33
Benzo (g,h,i) perylene	1780	ug/Kg	11/17/2022 01:33
Benzo (k) fluoranthene	3200	ug/Kg	11/17/2022 01:33
Bis (2-chloroethoxy) methane	< 1310	ug/Kg	11/17/2022 01:33
Bis (2-chloroethyl) ether	< 1310	ug/Kg	11/17/2022 01:33
Bis (2-ethylhexyl) phthalate	< 1310	ug/Kg	11/17/2022 01:33
Butylbenzylphthalate	< 1310	ug/Kg	11/17/2022 01:33
Caprolactam	< 1310	ug/Kg	11/17/2022 01:33
Carbazole	< 1310	ug/Kg	11/17/2022 01:33
Chrysene	5020	ug/Kg	11/17/2022 01:33
Dibenz (a,h) anthracene	< 1310	ug/Kg	11/17/2022 01:33
Dibenzofuran	1400	ug/Kg	11/17/2022 01:33
Diethyl phthalate	< 1310	ug/Kg	11/17/2022 01:33
Dimethyl phthalate	< 1310	ug/Kg	11/17/2022 01:33
Di-n-butyl phthalate	< 1310	ug/Kg	11/17/2022 01:33
Di-n-octylphthalate	< 1310	ug/Kg	11/17/2022 01:33
Fluoranthene	6250	ug/Kg	11/17/2022 01:33
Fluorene	1530	ug/Kg	11/17/2022 01:33
Hexachlorobenzene	< 1310	ug/Kg	11/17/2022 01:33

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06

Date Sampled: 11/8/2022 11:35

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 1310	ug/Kg	11/17/2022	01:33
Hexachlorocyclopentadiene	< 5240	ug/Kg	11/17/2022	01:33
Hexachloroethane	< 1310	ug/Kg	11/17/2022	01:33
Indeno (1,2,3-cd) pyrene	2140	ug/Kg	11/17/2022	01:33
Isophorone	< 1310	ug/Kg	11/17/2022	01:33
Naphthalene	25000	ug/Kg	11/17/2022	01:33
Nitrobenzene	< 1310	ug/Kg	11/17/2022	01:33
N-Nitroso-di-n-propylamine	< 1310	ug/Kg	11/17/2022	01:33
N-Nitrosodiphenylamine	< 1310	ug/Kg	11/17/2022	01:33
Pentachlorophenol	< 2620	ug/Kg	11/17/2022	01:33
Phenanthrene	3440	ug/Kg	11/17/2022	01:33
Phenol	8010	ug/Kg	11/17/2022	01:33
Pyrene	5100	ug/Kg	11/17/2022	01:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	0.00	35.4 - 92.4	*	11/17/2022 01:33
2-Fluorobiphenyl	87.2	39.6 - 84.4		11/17/2022 01:33
2-Fluorophenol	37.4	35.5 - 78.9		11/17/2022 01:33
Nitrobenzene-d5	77.7	36.5 - 78.2		11/17/2022 01:33
Phenol-d5	72.5	37.1 - 78.3		11/17/2022 01:33
Terphenyl-d14	88.4	42.3 - 103		11/17/2022 01:33

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65011.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 820	ug/Kg		11/14/2022 15:26
1,1,1-Trichloroethane	< 820	ug/Kg		11/14/2022 15:26
1,1,2,2-Tetrachloroethane	< 820	ug/Kg		11/14/2022 15:26
1,1,2-Trichloroethane	< 820	ug/Kg		11/14/2022 15:26
1,1-Dichloroethane	< 820	ug/Kg		11/14/2022 15:26

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06

Date Sampled: 11/8/2022 11:35

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 820	ug/Kg	11/14/2022 15:26
1,1-Dichloropropene	< 820	ug/Kg	11/14/2022 15:26
1,2,3-Trichlorobenzene	< 2050	ug/Kg	11/14/2022 15:26
1,2,3-Trichloropropane	< 820	ug/Kg	11/14/2022 15:26
1,2,4-Trichlorobenzene	< 2050	ug/Kg	11/14/2022 15:26
1,2,4-Trimethylbenzene	< 820	ug/Kg	11/14/2022 15:26
1,2-Dibromo-3-Chloropropane	< 4100	ug/Kg	11/14/2022 15:26
1,2-Dibromoethane	< 820	ug/Kg	11/14/2022 15:26
1,2-Dichlorobenzene	< 820	ug/Kg	11/14/2022 15:26
1,2-Dichloroethane	< 820	ug/Kg	11/14/2022 15:26
1,2-Dichloropropane	< 820	ug/Kg	11/14/2022 15:26
1,3,5-Trimethylbenzene	< 820	ug/Kg	11/14/2022 15:26
1,3-Dichlorobenzene	< 820	ug/Kg	11/14/2022 15:26
1,3-Dichloropropane	< 820	ug/Kg	11/14/2022 15:26
1,4-Dichlorobenzene	< 820	ug/Kg	11/14/2022 15:26
1,4-Dioxane	< 4100	ug/Kg	11/14/2022 15:26
2,2-Dichloropropane	< 820	ug/Kg	11/14/2022 15:26
2-Butanone	< 4100	ug/Kg	11/14/2022 15:26
2-Chlorotoluene	< 820	ug/Kg	11/14/2022 15:26
2-Hexanone	< 2050	ug/Kg	11/14/2022 15:26
4-Chlorotoluene	< 820	ug/Kg	11/14/2022 15:26
4-Methyl-2-pentanone	< 2050	ug/Kg	11/14/2022 15:26
Acetone	< 4100	ug/Kg	11/14/2022 15:26
Benzene	< 820	ug/Kg	11/14/2022 15:26
Bromobenzene	< 2050	ug/Kg	11/14/2022 15:26
Bromochloromethane	< 2050	ug/Kg	11/14/2022 15:26
Bromodichloromethane	< 820	ug/Kg	11/14/2022 15:26
Bromoform	< 2050	ug/Kg	11/14/2022 15:26
Bromomethane	< 820	ug/Kg	11/14/2022 15:26
Carbon disulfide	< 820	ug/Kg	11/14/2022 15:26

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06

Date Sampled: 11/8/2022 11:35

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 820	ug/Kg	11/14/2022 15:26
Chlorobenzene	< 820	ug/Kg	11/14/2022 15:26
Chloroethane	< 820	ug/Kg	11/14/2022 15:26
Chloroform	< 820	ug/Kg	11/14/2022 15:26
Chloromethane	< 820	ug/Kg	11/14/2022 15:26
cis-1,2-Dichloroethene	< 820	ug/Kg	11/14/2022 15:26
cis-1,3-Dichloropropene	< 820	ug/Kg	11/14/2022 15:26
Cyclohexane	< 4100	ug/Kg	11/14/2022 15:26
Dibromochloromethane	< 820	ug/Kg	11/14/2022 15:26
Dibromomethane	< 820	ug/Kg	11/14/2022 15:26
Dichlorodifluoromethane	< 820	ug/Kg	11/14/2022 15:26
Ethylbenzene	< 820	ug/Kg	11/14/2022 15:26
Freon 113	< 820	ug/Kg	11/14/2022 15:26
Isopropylbenzene	< 820	ug/Kg	11/14/2022 15:26
m,p-Xylene	< 820	ug/Kg	11/14/2022 15:26
Methyl acetate	3220	ug/Kg	11/14/2022 15:26
Methyl tert-butyl Ether	< 820	ug/Kg	11/14/2022 15:26
Methylcyclohexane	< 820	ug/Kg	11/14/2022 15:26
Methylene chloride	< 2050	ug/Kg	11/14/2022 15:26
Naphthalene	45400	ug/Kg	11/14/2022 15:26
n-Butylbenzene	< 820	ug/Kg	11/14/2022 15:26
n-Propylbenzene	< 820	ug/Kg	11/14/2022 15:26
o-Xylene	< 820	ug/Kg	11/14/2022 15:26
p-Isopropyltoluene	< 820	ug/Kg	11/14/2022 15:26
sec-Butylbenzene	< 820	ug/Kg	11/14/2022 15:26
Styrene	< 2050	ug/Kg	11/14/2022 15:26
tert-Butylbenzene	< 820	ug/Kg	11/14/2022 15:26
Tetrachloroethene	< 820	ug/Kg	11/14/2022 15:26
Toluene	< 820	ug/Kg	11/14/2022 15:26
trans-1,2-Dichloroethene	< 820	ug/Kg	11/14/2022 15:26

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06

Date Sampled: 11/8/2022 11:35

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 820	ug/Kg	11/14/2022	15:26
Trichloroethene	< 820	ug/Kg	11/14/2022	15:26
Trichlorofluoromethane	< 820	ug/Kg	11/14/2022	15:26
Vinyl chloride	< 820	ug/Kg	11/14/2022	15:26

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	98.3	74.7 - 140		11/14/2022 15:26
4-Bromofluorobenzene	91.5	68 - 130		11/14/2022 15:26
Pentafluorobenzene	100	70.3 - 140		11/14/2022 15:26
Toluene-D8	98.2	69 - 138		11/14/2022 15:26

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13432.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06A

Date Sampled: 11/8/2022 11:35

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/18/2022 17:24
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/18/2022 17:24
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/18/2022 17:24
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/18/2022 17:24
Cresols (as m,p,o-Cresol)	197	ug/L	200000		11/18/2022 17:24
Hexachlorobenzene	< 40.0	ug/L	130		11/18/2022 17:24
Hexachlorobutadiene	< 40.0	ug/L	500		11/18/2022 17:24
Hexachloroethane	< 40.0	ug/L	3000		11/18/2022 17:24
Nitrobenzene	< 40.0	ug/L	2000		11/18/2022 17:24
Pentachlorophenol	< 80.0	ug/L	100000		11/18/2022 17:24
Pyridine	< 40.0	ug/L	5000		11/18/2022 17:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	91.6	29.6 - 139		11/18/2022 17:24
2-Fluorobiphenyl	65.7	10 - 124		11/18/2022 17:24
2-Fluorophenol	69.1	10 - 122		11/18/2022 17:24
Nitrobenzene-d5	86.1	28.7 - 119		11/18/2022 17:24
Phenol-d5	75.4	10 - 115		11/18/2022 17:24
Terphenyl-d14	95.8	32.2 - 142		11/18/2022 17:24

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 11/17/2022
Data File: B65062.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		11/17/2022 13:38
1,2-Dichloroethane	< 20.0	ug/L	500		11/17/2022 13:38
2-Butanone	< 100	ug/L	200000		11/17/2022 13:38
Benzene	< 20.0	ug/L	500		11/17/2022 13:38

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Lab Project ID: 225421

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10N - 11082022

Lab Sample ID: 225421-06A

Date Sampled: 11/8/2022 11:35

Matrix: TCLP Extract

Date Received 11/9/2022

Carbon Tetrachloride	< 20.0	ug/L	500	11/17/2022	13:38
Chlorobenzene	< 20.0	ug/L	100000	11/17/2022	13:38
Chloroform	< 20.0	ug/L	6000	11/17/2022	13:38
Tetrachloroethene	< 20.0	ug/L	700	11/17/2022	13:38
Trichloroethene	< 20.0	ug/L	500	11/17/2022	13:38
Vinyl chloride	< 20.0	ug/L	200	11/17/2022	13:38

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	99.9	81.1 - 136		11/17/2022 13:38
4-Bromofluorobenzene	90.6	75.8 - 132		11/17/2022 13:38
Pentafluorobenzene	100	82 - 132		11/17/2022 13:38
Toluene-D8	100	64.6 - 137		11/17/2022 13:38

Method Reference(s): EPA 8260C
 EPA 1311 / 5030C
 Data File: z13538.D

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Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07

Date Sampled: 11/8/2022 11:45

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	3870	ug/Kg		11/18/2022 15:57
1,2,4,5-Tetrachlorobenzene	< 2790	ug/Kg		11/18/2022 15:57
1,2,4-Trichlorobenzene	< 2790	ug/Kg		11/18/2022 15:57
1,2-Dichlorobenzene	< 2790	ug/Kg		11/18/2022 15:57
1,3-Dichlorobenzene	< 2790	ug/Kg		11/18/2022 15:57
1,4-Dichlorobenzene	< 2790	ug/Kg		11/18/2022 15:57
2,2-Oxybis (1-chloropropane)	< 2790	ug/Kg		11/18/2022 15:57
2,3,4,6-Tetrachlorophenol	< 2790	ug/Kg		11/18/2022 15:57
2,4,5-Trichlorophenol	< 2790	ug/Kg		11/18/2022 15:57
2,4,6-Trichlorophenol	< 2790	ug/Kg		11/18/2022 15:57
2,4-Dichlorophenol	< 2790	ug/Kg		11/18/2022 15:57
2,4-Dimethylphenol	< 2790	ug/Kg		11/18/2022 15:57
2,4-Dinitrophenol	< 11200	ug/Kg		11/18/2022 15:57
2,4-Dinitrotoluene	< 2790	ug/Kg		11/18/2022 15:57
2,6-Dinitrotoluene	< 2790	ug/Kg		11/18/2022 15:57
2-Chloronaphthalene	< 2790	ug/Kg		11/18/2022 15:57
2-Chlorophenol	< 2790	ug/Kg		11/18/2022 15:57
2-Methylnapthalene	32400	ug/Kg		11/18/2022 15:57
2-Methylphenol	< 2790	ug/Kg		11/18/2022 15:57
2-Nitroaniline	< 2790	ug/Kg		11/18/2022 15:57
2-Nitrophenol	< 2790	ug/Kg		11/18/2022 15:57
3&4-Methylphenol	< 2790	ug/Kg		11/18/2022 15:57
3,3'-Dichlorobenzidine	< 2790	ug/Kg		11/18/2022 15:57
3-Nitroaniline	< 2790	ug/Kg		11/18/2022 15:57
4,6-Dinitro-2-methylphenol	< 3740	ug/Kg		11/18/2022 15:57
4-Bromophenyl phenyl ether	< 2790	ug/Kg		11/18/2022 15:57
4-Chloro-3-methylphenol	< 2790	ug/Kg		11/18/2022 15:57
4-Chloroaniline	< 2790	ug/Kg		11/18/2022 15:57

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07

Date Sampled: 11/8/2022 11:45

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 2790	ug/Kg	11/18/2022 15:57
4-Nitroaniline	< 2790	ug/Kg	11/18/2022 15:57
4-Nitrophenol	< 2790	ug/Kg	11/18/2022 15:57
Acenaphthene	< 2790	ug/Kg	11/18/2022 15:57
Acenaphthylene	5220	ug/Kg	11/18/2022 15:57
Acetophenone	< 2790	ug/Kg	11/18/2022 15:57
Anthracene	4620	ug/Kg	11/18/2022 15:57
Atrazine	< 2790	ug/Kg	11/18/2022 15:57
Benzaldehyde	< 2790	ug/Kg	11/18/2022 15:57
Benzo (a) anthracene	5700	ug/Kg	11/18/2022 15:57
Benzo (a) pyrene	< 2790	ug/Kg	11/18/2022 15:57
Benzo (b) fluoranthene	3140	ug/Kg	11/18/2022 15:57
Benzo (g,h,i) perylene	< 2790	ug/Kg	11/18/2022 15:57
Benzo (k) fluoranthene	3040	ug/Kg	11/18/2022 15:57
Bis (2-chloroethoxy) methane	< 2790	ug/Kg	11/18/2022 15:57
Bis (2-chloroethyl) ether	< 2790	ug/Kg	11/18/2022 15:57
Bis (2-ethylhexyl) phthalate	< 2790	ug/Kg	11/18/2022 15:57
Butylbenzylphthalate	< 2790	ug/Kg	11/18/2022 15:57
Caprolactam	< 2790	ug/Kg	11/18/2022 15:57
Carbazole	< 2790	ug/Kg	11/18/2022 15:57
Chrysene	4560	ug/Kg	11/18/2022 15:57
Dibenz (a,h) anthracene	< 2790	ug/Kg	11/18/2022 15:57
Dibenzofuran	6920	ug/Kg	11/18/2022 15:57
Diethyl phthalate	< 2790	ug/Kg	11/18/2022 15:57
Dimethyl phthalate	< 2790	ug/Kg	11/18/2022 15:57
Di-n-butyl phthalate	< 2790	ug/Kg	11/18/2022 15:57
Di-n-octylphthalate	< 2790	ug/Kg	11/18/2022 15:57
Fluoranthene	21400	ug/Kg	11/18/2022 15:57
Fluorene	6050	ug/Kg	11/18/2022 15:57
Hexachlorobenzene	< 2790	ug/Kg	11/18/2022 15:57

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07

Date Sampled: 11/8/2022 11:45

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 2790	ug/Kg	11/18/2022	15:57
Hexachlorocyclopentadiene	< 11200	ug/Kg	11/18/2022	15:57
Hexachloroethane	< 2790	ug/Kg	11/18/2022	15:57
Indeno (1,2,3-cd) pyrene	< 2790	ug/Kg	11/18/2022	15:57
Isophorone	< 2790	ug/Kg	11/18/2022	15:57
Naphthalene	70700	ug/Kg	11/18/2022	15:57
Nitrobenzene	< 2790	ug/Kg	11/18/2022	15:57
N-Nitroso-di-n-propylamine	< 2790	ug/Kg	11/18/2022	15:57
N-Nitrosodiphenylamine	< 2790	ug/Kg	11/18/2022	15:57
Pentachlorophenol	< 5590	ug/Kg	11/18/2022	15:57
Phenanthrene	29800	ug/Kg	11/18/2022	15:57
Phenol	< 2790	ug/Kg	11/18/2022	15:57
Pyrene	11600	ug/Kg	11/18/2022	15:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	35.4 - 92.4		11/18/2022 15:57
2-Fluorobiphenyl	NC	39.6 - 84.4		11/18/2022 15:57
2-Fluorophenol	NC	35.5 - 78.9		11/18/2022 15:57
Nitrobenzene-d5	NC	36.5 - 78.2		11/18/2022 15:57
Phenol-d5	NC	37.1 - 78.3		11/18/2022 15:57
Terphenyl-d14	NC	42.3 - 103		11/18/2022 15:57

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65059.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 671	ug/Kg		11/14/2022 15:45
1,1,1-Trichloroethane	< 671	ug/Kg		11/14/2022 15:45
1,1,2,2-Tetrachloroethane	< 671	ug/Kg		11/14/2022 15:45
1,1,2-Trichloroethane	< 671	ug/Kg		11/14/2022 15:45
1,1-Dichloroethane	< 671	ug/Kg		11/14/2022 15:45

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Lab Project ID: 225421

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07

Date Sampled: 11/8/2022 11:45

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 671	ug/Kg	11/14/2022 15:45
1,1-Dichloropropene	< 671	ug/Kg	11/14/2022 15:45
1,2,3-Trichlorobenzene	< 1680	ug/Kg	11/14/2022 15:45
1,2,3-Trichloropropane	< 671	ug/Kg	11/14/2022 15:45
1,2,4-Trichlorobenzene	< 1680	ug/Kg	11/14/2022 15:45
1,2,4-Trimethylbenzene	2500	ug/Kg	11/14/2022 15:45
1,2-Dibromo-3-Chloropropane	< 3360	ug/Kg	11/14/2022 15:45
1,2-Dibromoethane	< 671	ug/Kg	11/14/2022 15:45
1,2-Dichlorobenzene	< 671	ug/Kg	11/14/2022 15:45
1,2-Dichloroethane	< 671	ug/Kg	11/14/2022 15:45
1,2-Dichloropropane	< 671	ug/Kg	11/14/2022 15:45
1,3,5-Trimethylbenzene	1860	ug/Kg	11/14/2022 15:45
1,3-Dichlorobenzene	< 671	ug/Kg	11/14/2022 15:45
1,3-Dichloropropane	< 671	ug/Kg	11/14/2022 15:45
1,4-Dichlorobenzene	< 671	ug/Kg	11/14/2022 15:45
1,4-Dioxane	< 3360	ug/Kg	11/14/2022 15:45
2,2-Dichloropropane	< 671	ug/Kg	11/14/2022 15:45
2-Butanone	< 3360	ug/Kg	11/14/2022 15:45
2-Chlorotoluene	< 671	ug/Kg	11/14/2022 15:45
2-Hexanone	< 1680	ug/Kg	11/14/2022 15:45
4-Chlorotoluene	< 671	ug/Kg	11/14/2022 15:45
4-Methyl-2-pentanone	< 1680	ug/Kg	11/14/2022 15:45
Acetone	< 3360	ug/Kg	11/14/2022 15:45
Benzene	801	ug/Kg	11/14/2022 15:45
Bromobenzene	< 1680	ug/Kg	11/14/2022 15:45
Bromochloromethane	< 1680	ug/Kg	11/14/2022 15:45
Bromodichloromethane	< 671	ug/Kg	11/14/2022 15:45
Bromoform	< 1680	ug/Kg	11/14/2022 15:45
Bromomethane	< 671	ug/Kg	11/14/2022 15:45
Carbon disulfide	< 671	ug/Kg	11/14/2022 15:45

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07

Date Sampled: 11/8/2022 11:45

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 671	ug/Kg		11/14/2022 15:45
Chlorobenzene	< 671	ug/Kg		11/14/2022 15:45
Chloroethane	< 671	ug/Kg		11/14/2022 15:45
Chloroform	< 671	ug/Kg		11/14/2022 15:45
Chloromethane	< 671	ug/Kg		11/14/2022 15:45
cis-1,2-Dichloroethene	< 671	ug/Kg		11/14/2022 15:45
cis-1,3-Dichloropropene	< 671	ug/Kg		11/14/2022 15:45
Cyclohexane	< 3360	ug/Kg		11/14/2022 15:45
Dibromochloromethane	< 671	ug/Kg		11/14/2022 15:45
Dibromomethane	< 671	ug/Kg		11/14/2022 15:45
Dichlorodifluoromethane	< 671	ug/Kg		11/14/2022 15:45
Ethylbenzene	< 671	ug/Kg		11/14/2022 15:45
Freon 113	< 671	ug/Kg		11/14/2022 15:45
Isopropylbenzene	< 671	ug/Kg		11/14/2022 15:45
m,p-Xylene	2730	ug/Kg		11/14/2022 15:45
Methyl acetate	969	ug/Kg		11/14/2022 15:45
Methyl tert-butyl Ether	< 671	ug/Kg		11/14/2022 15:45
Methylcyclohexane	< 671	ug/Kg		11/14/2022 15:45
Methylene chloride	< 1680	ug/Kg		11/14/2022 15:45
Naphthalene	241000	ug/Kg	E	11/14/2022 15:45
n-Butylbenzene	< 671	ug/Kg		11/14/2022 15:45
n-Propylbenzene	< 671	ug/Kg		11/14/2022 15:45
o-Xylene	823	ug/Kg		11/14/2022 15:45
p-Isopropyltoluene	< 671	ug/Kg		11/14/2022 15:45
sec-Butylbenzene	< 671	ug/Kg		11/14/2022 15:45
Styrene	< 1680	ug/Kg		11/14/2022 15:45
tert-Butylbenzene	< 671	ug/Kg		11/14/2022 15:45
Tetrachloroethene	< 671	ug/Kg		11/14/2022 15:45
Toluene	1670	ug/Kg		11/14/2022 15:45
trans-1,2-Dichloroethene	< 671	ug/Kg		11/14/2022 15:45

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07

Date Sampled: 11/8/2022 11:45

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 671	ug/Kg	11/14/2022	15:45
Trichloroethene	< 671	ug/Kg	11/14/2022	15:45
Trichlorofluoromethane	< 671	ug/Kg	11/14/2022	15:45
Vinyl chloride	< 671	ug/Kg	11/14/2022	15:45

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	96.5	74.7 - 140		11/14/2022 15:45
4-Bromofluorobenzene	95.6	68 - 130		11/14/2022 15:45
Pentafluorobenzene	100	70.3 - 140		11/14/2022 15:45
Toluene-D8	101	69 - 138		11/14/2022 15:45

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13433.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10S - 11082022

Lab Sample ID: 225421-07A

Date Sampled: 11/8/2022 11:45

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/18/2022 18:51
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/18/2022 18:51
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/18/2022 18:51
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/18/2022 18:51
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/18/2022 18:51
Hexachlorobenzene	< 40.0	ug/L	130		11/18/2022 18:51
Hexachlorobutadiene	< 40.0	ug/L	500		11/18/2022 18:51
Hexachloroethane	< 40.0	ug/L	3000		11/18/2022 18:51
Nitrobenzene	< 40.0	ug/L	2000		11/18/2022 18:51
Pentachlorophenol	< 80.0	ug/L	100000		11/18/2022 18:51
Pyridine	< 40.0	ug/L	5000		11/18/2022 18:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	91.0	29.6 - 139		11/18/2022 18:51
2-Fluorobiphenyl	68.3	10 - 124		11/18/2022 18:51
2-Fluorophenol	65.7	10 - 122		11/18/2022 18:51
Nitrobenzene-d5	84.1	28.7 - 119		11/18/2022 18:51
Phenol-d5	71.1	10 - 115		11/18/2022 18:51
Terphenyl-d14	91.0	32.2 - 142		11/18/2022 18:51

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 11/17/2022
Data File: B65065.D

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022 11:50

Matrix: Solid

Date Received 11/9/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	3350	ug/Kg		11/17/2022 02:31
1,2,4,5-Tetrachlorobenzene	< 1370	ug/Kg		11/17/2022 02:31
1,2,4-Trichlorobenzene	< 1370	ug/Kg		11/17/2022 02:31
1,2-Dichlorobenzene	< 1370	ug/Kg		11/17/2022 02:31
1,3-Dichlorobenzene	< 1370	ug/Kg		11/17/2022 02:31
1,4-Dichlorobenzene	< 1370	ug/Kg		11/17/2022 02:31
2,2-Oxybis (1-chloropropane)	< 1370	ug/Kg		11/17/2022 02:31
2,3,4,6-Tetrachlorophenol	< 1370	ug/Kg		11/17/2022 02:31
2,4,5-Trichlorophenol	< 1370	ug/Kg		11/17/2022 02:31
2,4,6-Trichlorophenol	< 1370	ug/Kg		11/17/2022 02:31
2,4-Dichlorophenol	< 1370	ug/Kg		11/17/2022 02:31
2,4-Dimethylphenol	< 1370	ug/Kg		11/17/2022 02:31
2,4-Dinitrophenol	< 5460	ug/Kg		11/17/2022 02:31
2,4-Dinitrotoluene	< 1370	ug/Kg		11/17/2022 02:31
2,6-Dinitrotoluene	< 1370	ug/Kg		11/17/2022 02:31
2-Chloronaphthalene	< 1370	ug/Kg		11/17/2022 02:31
2-Chlorophenol	< 1370	ug/Kg	M	11/17/2022 02:31
2-Methylnapthalene	18800	ug/Kg		11/17/2022 02:31
2-Methylphenol	< 1370	ug/Kg		11/17/2022 02:31
2-Nitroaniline	< 1370	ug/Kg		11/17/2022 02:31
2-Nitrophenol	< 1370	ug/Kg		11/17/2022 02:31
3&4-Methylphenol	< 1370	ug/Kg		11/17/2022 02:31
3,3'-Dichlorobenzidine	< 1370	ug/Kg		11/17/2022 02:31
3-Nitroaniline	< 1370	ug/Kg		11/17/2022 02:31
4,6-Dinitro-2-methylphenol	< 1830	ug/Kg		11/17/2022 02:31
4-Bromophenyl phenyl ether	< 1370	ug/Kg		11/17/2022 02:31
4-Chloro-3-methylphenol	< 1370	ug/Kg	M	11/17/2022 02:31
4-Chloroaniline	< 1370	ug/Kg		11/17/2022 02:31

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Lab Project ID: 225421

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022 11:50

Matrix: Solid

Date Received 11/9/2022

4-Chlorophenyl phenyl ether	< 1370	ug/Kg	11/17/2022 02:31
4-Nitroaniline	< 1370	ug/Kg	11/17/2022 02:31
4-Nitrophenol	< 1370	ug/Kg	11/17/2022 02:31
Acenaphthene	18900	ug/Kg	11/17/2022 02:31
Acenaphthylene	25400	ug/Kg	11/17/2022 02:31
Acetophenone	< 1370	ug/Kg	11/17/2022 02:31
Anthracene	6320	ug/Kg	11/17/2022 02:31
Atrazine	< 1370	ug/Kg	11/17/2022 02:31
Benzaldehyde	< 1370	ug/Kg	11/17/2022 02:31
Benzo (a) anthracene	23500	ug/Kg	11/17/2022 02:31
Benzo (a) pyrene	15900	ug/Kg	11/17/2022 02:31
Benzo (b) fluoranthene	19700	ug/Kg	11/17/2022 02:31
Benzo (g,h,i) perylene	10400	ug/Kg	11/17/2022 02:31
Benzo (k) fluoranthene	14400	ug/Kg	11/17/2022 02:31
Bis (2-chloroethoxy) methane	< 1370	ug/Kg	11/17/2022 02:31
Bis (2-chloroethyl) ether	< 1370	ug/Kg	11/17/2022 02:31
Bis (2-ethylhexyl) phthalate	< 1370	ug/Kg	11/17/2022 02:31
Butylbenzylphthalate	< 1370	ug/Kg	11/17/2022 02:31
Caprolactam	< 1370	ug/Kg	11/17/2022 02:31
Carbazole	1380	ug/Kg	11/17/2022 02:31
Chrysene	25000	ug/Kg	11/17/2022 02:31
Dibenz (a,h) anthracene	3730	ug/Kg	11/17/2022 02:31
Dibenzofuran	11700	ug/Kg	11/17/2022 02:31
Diethyl phthalate	< 1370	ug/Kg	11/17/2022 02:31
Dimethyl phthalate	< 1370	ug/Kg	11/17/2022 02:31
Di-n-butyl phthalate	< 1370	ug/Kg	11/17/2022 02:31
Di-n-octylphthalate	< 1370	ug/Kg	11/17/2022 02:31
Fluoranthene	< 1370	ug/Kg	11/17/2022 02:31
Fluorene	15000	ug/Kg	11/17/2022 02:31
Hexachlorobenzene	< 1370	ug/Kg	11/17/2022 02:31

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022 11:50

Matrix: Solid

Date Received 11/9/2022

Hexachlorobutadiene	< 1370	ug/Kg		11/17/2022 02:31
Hexachlorocyclopentadiene	< 5460	ug/Kg		11/17/2022 02:31
Hexachloroethane	< 1370	ug/Kg		11/17/2022 02:31
Indeno (1,2,3-cd) pyrene	10700	ug/Kg		11/17/2022 02:31
Isophorone	< 1370	ug/Kg		11/17/2022 02:31
Naphthalene	48800	ug/Kg		11/17/2022 02:31
Nitrobenzene	< 1370	ug/Kg		11/17/2022 02:31
N-Nitroso-di-n-propylamine	< 1370	ug/Kg	M	11/17/2022 02:31
N-Nitrosodiphenylamine	< 1370	ug/Kg		11/17/2022 02:31
Pentachlorophenol	< 2730	ug/Kg	M	11/17/2022 02:31
Phenanthrene	19400	ug/Kg		11/17/2022 02:31
Phenol	< 1370	ug/Kg	M	11/17/2022 02:31
Pyrene	24400	ug/Kg	MD	11/17/2022 02:31

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	73.4	35.4 - 92.4		11/17/2022 02:31
2-Fluorobiphenyl	98.7	39.6 - 84.4	*	11/17/2022 02:31
2-Fluorophenol	72.9	35.5 - 78.9		11/17/2022 02:31
Nitrobenzene-d5	90.6	36.5 - 78.2	*	11/17/2022 02:31
Phenol-d5	88.4	37.1 - 78.3	*	11/17/2022 02:31
Terphenyl-d14	83.4	42.3 - 103		11/17/2022 02:31

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65013.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 565	ug/Kg		11/14/2022 16:05
1,1,1-Trichloroethane	< 565	ug/Kg		11/14/2022 16:05
1,1,2,2-Tetrachloroethane	< 565	ug/Kg		11/14/2022 16:05
1,1,2-Trichloroethane	< 565	ug/Kg		11/14/2022 16:05
1,1-Dichloroethane	< 565	ug/Kg		11/14/2022 16:05

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022 11:50

Matrix: Solid

Date Received 11/9/2022

1,1-Dichloroethene	< 565	ug/Kg	11/14/2022 16:05
1,1-Dichloropropene	< 565	ug/Kg	11/14/2022 16:05
1,2,3-Trichlorobenzene	< 1410	ug/Kg	11/14/2022 16:05
1,2,3-Trichloropropane	< 565	ug/Kg	11/14/2022 16:05
1,2,4-Trichlorobenzene	< 1410	ug/Kg	11/14/2022 16:05
1,2,4-Trimethylbenzene	1270	ug/Kg	11/14/2022 16:05
1,2-Dibromo-3-Chloropropane	< 2820	ug/Kg	11/14/2022 16:05
1,2-Dibromoethane	< 565	ug/Kg	11/14/2022 16:05
1,2-Dichlorobenzene	< 565	ug/Kg	11/14/2022 16:05
1,2-Dichloroethane	< 565	ug/Kg	11/14/2022 16:05
1,2-Dichloropropane	< 565	ug/Kg	11/14/2022 16:05
1,3,5-Trimethylbenzene	939	ug/Kg	11/14/2022 16:05
1,3-Dichlorobenzene	< 565	ug/Kg	11/14/2022 16:05
1,3-Dichloropropane	< 565	ug/Kg	11/14/2022 16:05
1,4-Dichlorobenzene	< 565	ug/Kg	11/14/2022 16:05
1,4-Dioxane	< 2820	ug/Kg	11/14/2022 16:05
2,2-Dichloropropane	< 565	ug/Kg	11/14/2022 16:05
2-Butanone	< 2820	ug/Kg	11/14/2022 16:05
2-Chlorotoluene	< 565	ug/Kg	11/14/2022 16:05
2-Hexanone	< 1410	ug/Kg	11/14/2022 16:05
4-Chlorotoluene	< 565	ug/Kg	11/14/2022 16:05
4-Methyl-2-pentanone	< 1410	ug/Kg	11/14/2022 16:05
Acetone	< 2820	ug/Kg	11/14/2022 16:05
Benzene	744	ug/Kg	11/14/2022 16:05
Bromobenzene	< 1410	ug/Kg	11/14/2022 16:05
Bromochloromethane	< 1410	ug/Kg	11/14/2022 16:05
Bromodichloromethane	< 565	ug/Kg	11/14/2022 16:05
Bromoform	< 1410	ug/Kg	11/14/2022 16:05
Bromomethane	< 565	ug/Kg	11/14/2022 16:05
Carbon disulfide	< 565	ug/Kg	11/14/2022 16:05

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022 11:50

Matrix: Solid

Date Received 11/9/2022

Carbon Tetrachloride	< 565	ug/Kg		11/14/2022 16:05
Chlorobenzene	< 565	ug/Kg		11/14/2022 16:05
Chloroethane	< 565	ug/Kg		11/14/2022 16:05
Chloroform	< 565	ug/Kg		11/14/2022 16:05
Chloromethane	< 565	ug/Kg		11/14/2022 16:05
cis-1,2-Dichloroethene	< 565	ug/Kg		11/14/2022 16:05
cis-1,3-Dichloropropene	< 565	ug/Kg		11/14/2022 16:05
Cyclohexane	< 2820	ug/Kg		11/14/2022 16:05
Dibromochloromethane	< 565	ug/Kg		11/14/2022 16:05
Dibromomethane	< 565	ug/Kg		11/14/2022 16:05
Dichlorodifluoromethane	< 565	ug/Kg		11/14/2022 16:05
Ethylbenzene	569	ug/Kg		11/14/2022 16:05
Freon 113	< 565	ug/Kg		11/14/2022 16:05
Isopropylbenzene	< 565	ug/Kg		11/14/2022 16:05
m,p-Xylene	3350	ug/Kg		11/14/2022 16:05
Methyl acetate	1040	ug/Kg		11/14/2022 16:05
Methyl tert-butyl Ether	< 565	ug/Kg		11/14/2022 16:05
Methylcyclohexane	< 565	ug/Kg		11/14/2022 16:05
Methylene chloride	< 1410	ug/Kg		11/14/2022 16:05
Naphthalene	91600	ug/Kg	E	11/14/2022 16:05
n-Butylbenzene	< 565	ug/Kg		11/14/2022 16:05
n-Propylbenzene	< 565	ug/Kg		11/14/2022 16:05
o-Xylene	820	ug/Kg		11/14/2022 16:05
p-Isopropyltoluene	< 565	ug/Kg		11/14/2022 16:05
sec-Butylbenzene	< 565	ug/Kg		11/14/2022 16:05
Styrene	< 1410	ug/Kg		11/14/2022 16:05
tert-Butylbenzene	< 565	ug/Kg		11/14/2022 16:05
Tetrachloroethene	< 565	ug/Kg		11/14/2022 16:05
Toluene	1570	ug/Kg		11/14/2022 16:05
trans-1,2-Dichloroethene	< 565	ug/Kg		11/14/2022 16:05

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Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022 11:50

Matrix: Solid

Date Received 11/9/2022

trans-1,3-Dichloropropene	< 565	ug/Kg	11/14/2022	16:05
Trichloroethene	< 565	ug/Kg	11/14/2022	16:05
Trichlorofluoromethane	< 565	ug/Kg	11/14/2022	16:05
Vinyl chloride	< 565	ug/Kg	11/14/2022	16:05

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	99.6	74.7 - 140		11/14/2022 16:05
4-Bromofluorobenzene	96.1	68 - 130		11/14/2022 16:05
Pentafluorobenzene	99.1	70.3 - 140		11/14/2022 16:05
Toluene-D8	99.0	69 - 138		11/14/2022 16:05

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z13434.D



Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Lab Sample ID: 225421-08A

Date Sampled: 11/8/2022 11:50

Matrix: TCLP Extract

Date Received 11/9/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		11/18/2022 19:19
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		11/18/2022 19:19
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		11/18/2022 19:19
2,4-Dinitrotoluene	< 40.0	ug/L	130		11/18/2022 19:19
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		11/18/2022 19:19
Hexachlorobenzene	< 40.0	ug/L	130		11/18/2022 19:19
Hexachlorobutadiene	< 40.0	ug/L	500		11/18/2022 19:19
Hexachloroethane	< 40.0	ug/L	3000		11/18/2022 19:19
Nitrobenzene	< 40.0	ug/L	2000		11/18/2022 19:19
Pentachlorophenol	< 80.0	ug/L	100000		11/18/2022 19:19
Pyridine	< 40.0	ug/L	5000		11/18/2022 19:19
Surrogate	Percent Recovery		Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	93.4		29.6 - 139		11/18/2022 19:19
2-Fluorobiphenyl	67.2		10 - 124		11/18/2022 19:19
2-Fluorophenol	65.9		10 - 122		11/18/2022 19:19
Nitrobenzene-d5	84.1		28.7 - 119		11/18/2022 19:19
Phenol-d5	74.5		10 - 115		11/18/2022 19:19
Terphenyl-d14	97.2		32.2 - 142		11/18/2022 19:19

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 11/17/2022
Data File: B65066.D



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	<275	ug/Kg		11/16/2022 22:08
1,2,4,5-Tetrachlorobenzene	<275	ug/Kg		11/16/2022 22:08
1,2,4-Trichlorobenzene	<275	ug/Kg		11/16/2022 22:08
1,2-Dichlorobenzene	<275	ug/Kg		11/16/2022 22:08
1,3-Dichlorobenzene	<275	ug/Kg		11/16/2022 22:08
1,4-Dichlorobenzene	<275	ug/Kg		11/16/2022 22:08
2,2-Oxybis (1-chloropropane)	<275	ug/Kg		11/16/2022 22:08
2,3,4,6-Tetrachlorophenol	<275	ug/Kg		11/16/2022 22:08
2,4,5-Trichlorophenol	<275	ug/Kg		11/16/2022 22:08
2,4,6-Trichlorophenol	<275	ug/Kg		11/16/2022 22:08
2,4-Dichlorophenol	<275	ug/Kg		11/16/2022 22:08
2,4-Dimethylphenol	<275	ug/Kg		11/16/2022 22:08
2,4-Dinitrophenol	<1100	ug/Kg		11/16/2022 22:08
2,4-Dinitrotoluene	<275	ug/Kg		11/16/2022 22:08
2,6-Dinitrotoluene	<275	ug/Kg		11/16/2022 22:08
2-Chloronaphthalene	<275	ug/Kg		11/16/2022 22:08
2-Chlorophenol	<275	ug/Kg		11/16/2022 22:08
2-Methylnaphthalene	<275	ug/Kg		11/16/2022 22:08
2-Methylphenol	<275	ug/Kg		11/16/2022 22:08
2-Nitroaniline	<275	ug/Kg		11/16/2022 22:08
2-Nitrophenol	<275	ug/Kg		11/16/2022 22:08
3&4-Methylphenol	<275	ug/Kg		11/16/2022 22:08
3,3'-Dichlorobenzidine	<275	ug/Kg		11/16/2022 22:08
3-Nitroaniline	<275	ug/Kg		11/16/2022 22:08
4,6-Dinitro-2-methylphenol	<549	ug/Kg		11/16/2022 22:08
4-Bromophenyl phenyl ether	<275	ug/Kg		11/16/2022 22:08
4-Chloro-3-methylphenol	<275	ug/Kg		11/16/2022 22:08

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4-Chloroaniline	<275	ug/Kg		11/16/2022 22:08
4-Chlorophenyl phenyl ether	<275	ug/Kg		11/16/2022 22:08
4-Nitroaniline	<275	ug/Kg		11/16/2022 22:08
4-Nitrophenol	<275	ug/Kg		11/16/2022 22:08
Acenaphthene	<275	ug/Kg		11/16/2022 22:08
Acenaphthylene	<275	ug/Kg		11/16/2022 22:08
Acetophenone	<275	ug/Kg		11/16/2022 22:08
Anthracene	<275	ug/Kg		11/16/2022 22:08
Atrazine	<275	ug/Kg		11/16/2022 22:08
Benzaldehyde	<275	ug/Kg		11/16/2022 22:08
Benzo (a) anthracene	<275	ug/Kg		11/16/2022 22:08
Benzo (a) pyrene	<275	ug/Kg		11/16/2022 22:08
Benzo (b) fluoranthene	<275	ug/Kg		11/16/2022 22:08
Benzo (g,h,i) perylene	<275	ug/Kg		11/16/2022 22:08
Benzo (k) fluoranthene	<275	ug/Kg		11/16/2022 22:08
Bis (2-chloroethoxy) methane	<275	ug/Kg		11/16/2022 22:08
Bis (2-chloroethyl) ether	<275	ug/Kg		11/16/2022 22:08
Bis (2-ethylhexyl) phthalate	<275	ug/Kg		11/16/2022 22:08
Butylbenzylphthalate	<275	ug/Kg		11/16/2022 22:08
Caprolactam	<275	ug/Kg		11/16/2022 22:08
Carbazole	<275	ug/Kg		11/16/2022 22:08
Chrysene	<275	ug/Kg		11/16/2022 22:08
Dibenz (a,h) anthracene	<275	ug/Kg		11/16/2022 22:08
Dibenzofuran	<275	ug/Kg		11/16/2022 22:08
Diethyl phthalate	<275	ug/Kg		11/16/2022 22:08
Dimethyl phthalate	<275	ug/Kg		11/16/2022 22:08
Di-n-butyl phthalate	<275	ug/Kg		11/16/2022 22:08
Di-n-octylphthalate	<275	ug/Kg		11/16/2022 22:08

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Fluoranthene	<275	ug/Kg		11/16/2022 22:08
Fluorene	<275	ug/Kg		11/16/2022 22:08
Hexachlorobenzene	<275	ug/Kg		11/16/2022 22:08
Hexachlorobutadiene	<275	ug/Kg		11/16/2022 22:08
Hexachlorocyclopentadiene	<1100	ug/Kg		11/16/2022 22:08
Hexachloroethane	<275	ug/Kg		11/16/2022 22:08
Indeno (1,2,3-cd) pyrene	<275	ug/Kg		11/16/2022 22:08
Isophorone	<275	ug/Kg		11/16/2022 22:08
Naphthalene	<275	ug/Kg		11/16/2022 22:08
Nitrobenzene	<275	ug/Kg		11/16/2022 22:08
N-Nitroso-di-n-propylamine	<275	ug/Kg		11/16/2022 22:08
N-Nitrosodiphenylamine	<275	ug/Kg		11/16/2022 22:08
Pentachlorophenol	<549	ug/Kg		11/16/2022 22:08
Phenanthrene	<275	ug/Kg		11/16/2022 22:08
Phenol	<275	ug/Kg		11/16/2022 22:08
Pyrene	<275	ug/Kg		11/16/2022 22:08

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	58.6	35.4 - 92.4		11/16/2022 22:08
2-Fluorobiphenyl	69.0	39.6 - 84.4		11/16/2022 22:08
2-Fluorophenol	54.1	35.5 - 78.9		11/16/2022 22:08
Nitrobenzene-d5	64.9	36.5 - 78.2		11/16/2022 22:08
Phenol-d5	64.7	37.1 - 78.3		11/16/2022 22:08
Terphenyl-d14	75.6	42.3 - 103		11/16/2022 22:08

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65004.D
QC Batch ID: QC221115ABNS
QC Number: Blk 1

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QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Lab Project ID: 225421

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	2560	ug/Kg	1770	69.2	36.4 - 88		11/16/2022
1,4-Dichlorobenzene	2560	ug/Kg	1560	61.0	34.3 - 78.9		11/16/2022
2,4-Dinitrotoluene	2560	ug/Kg	1970	77.0	40.2 - 99.7		11/16/2022
2-Chlorophenol	3850	ug/Kg	2710	70.4	49.5 - 80.8		11/16/2022
4-Chloro-3-methylphenol	3850	ug/Kg	3000	77.9	52.2 - 87.8		11/16/2022
4-Nitrophenol	3850	ug/Kg	2670	69.4	23.3 - 102		11/16/2022
Acenaphthene	2560	ug/Kg	1930	75.1	43.5 - 87.2		11/16/2022
N-Nitroso-di-n-propylamine	2560	ug/Kg	1940	75.6	32.6 - 89.2		11/16/2022
Pentachlorophenol	3850	ug/Kg	3010	78.2	41.8 - 107		11/16/2022
Phenol	3850	ug/Kg	2840	73.8	48.8 - 79.3		11/16/2022
Pyrene	2560	ug/Kg	2180	85.1	47.1 - 104		11/16/2022

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/15/2022
Data File: B65005.D
QC Number: LCS 1
QC Batch ID: QC221115ABNS

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QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Invention Engineering, P.C.

Lab Project ID: 225421

Project Reference: Concrete Cores

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Date Received: 11/9/2022

Matrix: Solid

Date Analyzed: 11/17/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Sample Result	Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
1,2,4-Trichlorobenzene	< 1370	ug/Kg	2490	2180	87.8	2760	2380	86.3	36.4 - 88			1.72	49.8	
1,4-Dichlorobenzene	< 1370	ug/Kg	2490	1860	74.6	2760	1990	72.2	34.3 - 78.9			3.27	44.6	
2,4-Dinitrotoluene	< 1370	ug/Kg	2490	2130	85.8	2760	2260	81.9	40.2 - 99.7			4.68	49.2	
2-Chlorophenol	< 1370	ug/Kg	3730	3090	82.9	4140	3360	81.0	49.5 - 80.8	*	*	2.30	30.8	
4-Chloro-3-methylphenol	< 1370	ug/Kg	3730	3270	87.7	4140	3780	91.3	52.2 - 87.8		*	4.01	29.4	
4-Nitrophenol	< 1370	ug/Kg	3730	3280	88.0	4140	3600	86.9	23.3 - 102			1.20	53.7	
Acenaphthene	18900	ug/Kg	2490	20900	83.0	2760	20300	51.9	43.5 - 87.2			46.1	50.2	
N-Nitroso-di-n-propylamine	< 1370	ug/Kg	2490	2310	92.8	2760	2510	90.7	32.6 - 89.2	*	*	2.26	51.8	
Pentachlorophenol	< 2730	ug/Kg	3730	1270	34.0	4140	1430	34.5	41.8 - 107	*	*	1.44	46.6	
Phenol	< 1370	ug/Kg	3730	3800	102	4140	3900	94.2	48.8 - 79.3	*	*	7.65	28.7	
Pyrene	24400	ug/Kg	2490	29000	183	2760	24900	18.5	47.1 - 104	*	*	163	53.2	*

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

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QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Inventum Engineering, P.C.

Lab Project ID: 225421

Project Reference: Concrete Cores

Lab Sample ID: 225421-08

Date Sampled: 11/8/2022

Sample Identifier: Core - BCP10SSUBFLOOR - 11082022

Date Received: 11/9/2022

Matrix: Solid

Date Analyzed: 11/17/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Sample Result	MS	MS	MS %	MSD	MSD	MSD %	% Rec.	MS	MSD	Relative	RPD	RPD	
	Result	Units	Added	Result	Recovery	Added	Result	Recovery	Limits	Outlier	Outlier	% Diff.	Limit	Outlier

Method Reference(s): EPA 8270D
EPA 3546

Preparation Date: 11/15/2022

Data File(s): B65014.D

B65015.D

B65013.D

1

QC Batch ID: QC221115A/BNS

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

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Report Prepared Tuesday, November 22, 2022



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	<40.0	ug/L		11/17/2022 15:03
2,4,5-Trichlorophenol	<40.0	ug/L		11/17/2022 15:03
2,4,6-Trichlorophenol	<40.0	ug/L		11/17/2022 15:03
2,4-Dinitrotoluene	<40.0	ug/L		11/17/2022 15:03
Cresols (as m,p,o-Cresol)	<80.0	ug/L		11/17/2022 15:03
Hexachlorobenzene	<40.0	ug/L		11/17/2022 15:03
Hexachlorobutadiene	<40.0	ug/L		11/17/2022 15:03
Hexachloroethane	<40.0	ug/L		11/17/2022 15:03
Nitrobenzene	<40.0	ug/L		11/17/2022 15:03
Pentachlorophenol	<80.0	ug/L		11/17/2022 15:03
Pyridine	<40.0	ug/L		11/17/2022 15:03

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	88.1	29.6 - 139		11/17/2022 15:03
2-Fluorobiphenyl	60.2	10 - 124		11/17/2022 15:03
2-Fluorophenol	61.7	10 - 122		11/17/2022 15:03
Nitrobenzene-d5	82.0	28.7 - 119		11/17/2022 15:03
Phenol-d5	67.4	10 - 115		11/17/2022 15:03
Terphenyl-d14	89.0	32.2 - 142		11/17/2022 15:03

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/16/2022
Data File: B65022.D
QC Batch ID: QC221116ABNT
QC Number: Blk 1

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QC Report for Laboratory Control Sample

Client: **Inventum Engineering, P.C.**

Project Reference: Concrete Cores

Lab Project ID: 225421

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,4-Dichlorobenzene	200	ug/L	86.6	43.3	27.5 - 93.4		11/17/2022
2,4,6-Trichlorophenol	300	ug/L	267	88.9	50.5 - 126		11/17/2022
2,4-Dinitrotoluene	200	ug/L	189	94.3	55.2 - 112		11/17/2022
Pentachlorophenol	300	ug/L	311	104	26.5 - 160		11/17/2022

Method Reference(s): EPA 8270D
EPA 3510C

Preparation Date: 11/16/2022

Data File: B65023.D

QC Number: LCS 1

QC Batch ID: QC221116ABNT

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	<40.0	ug/L		11/18/2022 16:26
2,4,5-Trichlorophenol	<40.0	ug/L		11/18/2022 16:26
2,4,6-Trichlorophenol	<40.0	ug/L		11/18/2022 16:26
2,4-Dinitrotoluene	<40.0	ug/L		11/18/2022 16:26
Cresols (as m,p,o-Cresol)	<80.0	ug/L		11/18/2022 16:26
Hexachlorobenzene	<40.0	ug/L		11/18/2022 16:26
Hexachlorobutadiene	<40.0	ug/L		11/18/2022 16:26
Hexachloroethane	<40.0	ug/L		11/18/2022 16:26
Nitrobenzene	<40.0	ug/L		11/18/2022 16:26
Pentachlorophenol	<80.0	ug/L		11/18/2022 16:26
Pyridine	<40.0	ug/L		11/18/2022 16:26

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	92.1	29.6 - 139		11/18/2022 16:26
2-Fluorobiphenyl	69.9	10 - 124		11/18/2022 16:26
2-Fluorophenol	69.2	10 - 122		11/18/2022 16:26
Nitrobenzene-d5	92.2	28.7 - 119		11/18/2022 16:26
Phenol-d5	76.1	10 - 115		11/18/2022 16:26
Terphenyl-d14	95.7	32.2 - 142		11/18/2022 16:26

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/17/2022
Data File: B65060.D
QC Batch ID: QC221117ABNT
QC Number: Blk 1



QC Report for Laboratory Control Sample

Client: **Inventum Engineering, P.C.**

Project Reference: Concrete Cores

Lab Project ID: 225421

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,4-Dichlorobenzene	200	ug/L	143	71.6	27.5 - 93.4		11/18/2022
2,4,6-Trichlorophenol	300	ug/L	282	94.1	50.5 - 126		11/18/2022
2,4-Dinitrotoluene	200	ug/L	171	85.7	55.2 - 112		11/18/2022
Pentachlorophenol	300	ug/L	293	97.7	26.5 - 160		11/18/2022

Method Reference(s): EPA 8270D
EPA 3510C

Preparation Date: 11/17/2022

Data File: B65061.D

QC Number: LCS 1

QC Batch ID: QC221117ABNT

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Matrix Spike and Matrix Spike Duplicate

Client: **Inventum Engineering, P.C.**

Lab Project ID: 225421

Project Reference: Concrete Cores

Lab Sample ID: 225421-06A

Date Sampled: 11/8/2022

Sample Identifier: Core - BCP10N - 11082022

Date Received: 11/9/2022

Matrix: TCLP Extract

Date Analyzed: 11/18/2022

TCLP Semi-Volatile Organics

Analyte	Sample Result	MS	MS	MS %	MSD	MSD	MSD %	% Rec.	MS	MSD	Relative % Diff.	RPD	RPD	
	Result	Units	Added	Result	Recovery	Added	Result	Recovery	Limits	Outlier	Outlier	% Diff.	Limit	Outlier
1,4-Dichlorobenzene	< 40.0	ug/L	200	140	70.2	200	153	76.5	27.5 - 93.4			8.60	71.3	
2,4,6-Trichlorophenol	< 40.0	ug/L	300	293	97.6	300	301	100	50.5 - 126			2.86	61.9	
2,4-Dinitrotoluene	< 40.0	ug/L	200	189	94.7	200	191	95.3	55.2 - 112			0.579	40.9	
Pentachlorophenol	< 80.0	ug/L	300	326	109	300	323	108	26.5 - 160			0.881	120	

Method Reference(s): EPA 8270D

EPA 1311 / 3510C

Preparation Date: 11/17/2022

Data File(s): B65063.D

B65064.D

B65062.D

1

QC Batch ID: QC221117ABNT

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, November 22, 2022

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	<2.00	ug/Kg		11/14/2022 11:45
1,1,1-Trichloroethane	<2.00	ug/Kg		11/14/2022 11:45
1,1,2,2-Tetrachloroethane	<2.00	ug/Kg		11/14/2022 11:45
1,1,2-Trichloroethane	<2.00	ug/Kg		11/14/2022 11:45
1,1-Dichloroethane	<2.00	ug/Kg		11/14/2022 11:45
1,1-Dichloroethene	<2.00	ug/Kg		11/14/2022 11:45
1,1-Dichloropropene	<2.00	ug/Kg		11/14/2022 11:45
1,2,3-Trichlorobenzene	<5.00	ug/Kg		11/14/2022 11:45
1,2,3-Trichloropropane	<2.00	ug/Kg		11/14/2022 11:45
1,2,4-Trichlorobenzene	<5.00	ug/Kg		11/14/2022 11:45
1,2,4-Trimethylbenzene	<2.00	ug/Kg		11/14/2022 11:45
1,2-Dibromo-3-Chloropropane	<10.0	ug/Kg		11/14/2022 11:45
1,2-Dibromoethane	<2.00	ug/Kg		11/14/2022 11:45
1,2-Dichlorobenzene	<2.00	ug/Kg		11/14/2022 11:45
1,2-Dichloroethane	<2.00	ug/Kg		11/14/2022 11:45
1,2-Dichloropropane	<2.00	ug/Kg		11/14/2022 11:45
1,3,5-Trimethylbenzene	<2.00	ug/Kg		11/14/2022 11:45
1,3-Dichlorobenzene	<2.00	ug/Kg		11/14/2022 11:45
1,3-Dichloropropane	<2.00	ug/Kg		11/14/2022 11:45
1,4-Dichlorobenzene	<2.00	ug/Kg		11/14/2022 11:45
1,4-Dioxane	<10.0	ug/Kg		11/14/2022 11:45
2,2-Dichloropropane	<2.00	ug/Kg		11/14/2022 11:45
2-Butanone	<10.0	ug/Kg		11/14/2022 11:45
2-Chlorotoluene	<2.00	ug/Kg		11/14/2022 11:45
2-Hexanone	<5.00	ug/Kg		11/14/2022 11:45
4-Chlorotoluene	<2.00	ug/Kg		11/14/2022 11:45
4-Methyl-2-pentanone	<5.00	ug/Kg		11/14/2022 11:45

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Acetone	<10.0	ug/Kg		11/14/2022 11:45
Benzene	<2.00	ug/Kg		11/14/2022 11:45
Bromobenzene	<5.00	ug/Kg		11/14/2022 11:45
Bromochloromethane	<5.00	ug/Kg		11/14/2022 11:45
Bromodichloromethane	<2.00	ug/Kg		11/14/2022 11:45
Bromoform	<5.00	ug/Kg		11/14/2022 11:45
Bromomethane	<2.00	ug/Kg		11/14/2022 11:45
Carbon disulfide	<2.00	ug/Kg		11/14/2022 11:45
Carbon Tetrachloride	<2.00	ug/Kg		11/14/2022 11:45
Chlorobenzene	<2.00	ug/Kg		11/14/2022 11:45
Chloroethane	<2.00	ug/Kg		11/14/2022 11:45
Chloroform	<2.00	ug/Kg		11/14/2022 11:45
Chloromethane	<2.00	ug/Kg		11/14/2022 11:45
cis-1,2-Dichloroethene	<2.00	ug/Kg		11/14/2022 11:45
cis-1,3-Dichloropropene	<2.00	ug/Kg		11/14/2022 11:45
Cyclohexane	<10.0	ug/Kg		11/14/2022 11:45
Dibromochloromethane	<2.00	ug/Kg		11/14/2022 11:45
Dibromomethane	<2.00	ug/Kg		11/14/2022 11:45
Dichlorodifluoromethane	<2.00	ug/Kg		11/14/2022 11:45
Ethylbenzene	<2.00	ug/Kg		11/14/2022 11:45
Freon 113	<2.00	ug/Kg		11/14/2022 11:45
Isopropylbenzene	<2.00	ug/Kg		11/14/2022 11:45
m,p-Xylene	<2.00	ug/Kg		11/14/2022 11:45
Methyl acetate	<2.00	ug/Kg		11/14/2022 11:45
Methyl tert-butyl Ether	<2.00	ug/Kg		11/14/2022 11:45
Methylcyclohexane	<2.00	ug/Kg		11/14/2022 11:45
Methylene chloride	<5.00	ug/Kg		11/14/2022 11:45
Naphthalene	<5.00	ug/Kg		11/14/2022 11:45

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
n-Butylbenzene	<2.00	ug/Kg		11/14/2022 11:45
n-Propylbenzene	<2.00	ug/Kg		11/14/2022 11:45
o-Xylene	<2.00	ug/Kg		11/14/2022 11:45
p-Isopropyltoluene	<2.00	ug/Kg		11/14/2022 11:45
sec-Butylbenzene	<2.00	ug/Kg		11/14/2022 11:45
Styrene	<5.00	ug/Kg		11/14/2022 11:45
tert-Butylbenzene	<2.00	ug/Kg		11/14/2022 11:45
Tetrachloroethene	<2.00	ug/Kg		11/14/2022 11:45
Toluene	<2.00	ug/Kg		11/14/2022 11:45
trans-1,2-Dichloroethene	<2.00	ug/Kg		11/14/2022 11:45
trans-1,3-Dichloropropene	<2.00	ug/Kg		11/14/2022 11:45
Trichloroethene	<2.00	ug/Kg		11/14/2022 11:45
Trichlorofluoromethane	<2.00	ug/Kg		11/14/2022 11:45
Vinyl chloride	<2.00	ug/Kg		11/14/2022 11:45

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	101	74.7 - 140		11/14/2022 11:45
4-Bromofluorobenzene	91.4	68 - 130		11/14/2022 11:45
Pentafluorobenzene	101	70.3 - 140		11/14/2022 11:45
Toluene-D8	101	69 - 138		11/14/2022 11:45

Method Reference(s): EPA 8260C
 EPA 5035A -- H
Data File: z13421.D
QC Batch ID: voahl221114
QC Number: Blk 1

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	<1000	ug/Kg		11/14/2022 21:34
1,1,1-Trichloroethane	<1000	ug/Kg		11/14/2022 21:34
1,1,2,2-Tetrachloroethane	<1000	ug/Kg		11/14/2022 21:34
1,1,2-Trichloroethane	<1000	ug/Kg		11/14/2022 21:34
1,1-Dichloroethane	<1000	ug/Kg		11/14/2022 21:34
1,1-Dichloroethene	<1000	ug/Kg		11/14/2022 21:34
1,1-Dichloropropene	<1000	ug/Kg		11/14/2022 21:34
1,2,3-Trichlorobenzene	<2500	ug/Kg		11/14/2022 21:34
1,2,3-Trichloropropane	<1000	ug/Kg		11/14/2022 21:34
1,2,4-Trichlorobenzene	<2500	ug/Kg		11/14/2022 21:34
1,2,4-Trimethylbenzene	<1000	ug/Kg		11/14/2022 21:34
1,2-Dibromo-3-Chloropropane	<5000	ug/Kg		11/14/2022 21:34
1,2-Dibromoethane	<1000	ug/Kg		11/14/2022 21:34
1,2-Dichlorobenzene	<1000	ug/Kg		11/14/2022 21:34
1,2-Dichloroethane	<1000	ug/Kg		11/14/2022 21:34
1,2-Dichloropropane	<1000	ug/Kg		11/14/2022 21:34
1,3,5-Trimethylbenzene	<1000	ug/Kg		11/14/2022 21:34
1,3-Dichlorobenzene	<1000	ug/Kg		11/14/2022 21:34
1,3-Dichloropropane	<1000	ug/Kg		11/14/2022 21:34
1,4-Dichlorobenzene	<1000	ug/Kg		11/14/2022 21:34
1,4-Dioxane	<5000	ug/Kg		11/14/2022 21:34
2,2-Dichloropropane	<1000	ug/Kg		11/14/2022 21:34
2-Butanone	<5000	ug/Kg		11/14/2022 21:34
2-Chlorotoluene	<1000	ug/Kg		11/14/2022 21:34
2-Hexanone	<2500	ug/Kg		11/14/2022 21:34
4-Chlorotoluene	<1000	ug/Kg		11/14/2022 21:34
4-Methyl-2-pentanone	<2500	ug/Kg		11/14/2022 21:34
Acetone	<5000	ug/Kg		11/14/2022 21:34

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Benzene	<1000	ug/Kg		11/14/2022 21:34
Bromobenzene	<2500	ug/Kg		11/14/2022 21:34
Bromochloromethane	<2500	ug/Kg		11/14/2022 21:34
Bromodichloromethane	<1000	ug/Kg		11/14/2022 21:34
Bromoform	<2500	ug/Kg		11/14/2022 21:34
Bromomethane	<1000	ug/Kg		11/14/2022 21:34
Carbon disulfide	<1000	ug/Kg		11/14/2022 21:34
Carbon Tetrachloride	<1000	ug/Kg		11/14/2022 21:34
Chlorobenzene	<1000	ug/Kg		11/14/2022 21:34
Chloroethane	<1000	ug/Kg		11/14/2022 21:34
Chloroform	<1000	ug/Kg		11/14/2022 21:34
Chloromethane	<1000	ug/Kg		11/14/2022 21:34
cis-1,2-Dichloroethene	<1000	ug/Kg		11/14/2022 21:34
cis-1,3-Dichloropropene	<1000	ug/Kg		11/14/2022 21:34
Cyclohexane	<5000	ug/Kg		11/14/2022 21:34
Dibromochloromethane	<1000	ug/Kg		11/14/2022 21:34
Dibromomethane	<1000	ug/Kg		11/14/2022 21:34
Dichlorodifluoromethane	<1000	ug/Kg		11/14/2022 21:34
Ethylbenzene	<1000	ug/Kg		11/14/2022 21:34
Freon 113	<1000	ug/Kg		11/14/2022 21:34
Isopropylbenzene	<1000	ug/Kg		11/14/2022 21:34
m,p-Xylene	<1000	ug/Kg		11/14/2022 21:34
Methyl acetate	<1000	ug/Kg		11/14/2022 21:34
Methyl tert-butyl Ether	<1000	ug/Kg		11/14/2022 21:34
Methylcyclohexane	<1000	ug/Kg		11/14/2022 21:34
Methylene chloride	<2500	ug/Kg		11/14/2022 21:34
Naphthalene	<2500	ug/Kg		11/14/2022 21:34
n-Butylbenzene	<1000	ug/Kg		11/14/2022 21:34

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
n-Propylbenzene	<1000	ug/Kg		11/14/2022 21:34
o-Xylene	<1000	ug/Kg		11/14/2022 21:34
p-Isopropyltoluene	<1000	ug/Kg		11/14/2022 21:34
sec-Butylbenzene	<1000	ug/Kg		11/14/2022 21:34
Styrene	<2500	ug/Kg		11/14/2022 21:34
tert-Butylbenzene	<1000	ug/Kg		11/14/2022 21:34
Tetrachloroethene	<1000	ug/Kg		11/14/2022 21:34
Toluene	<1000	ug/Kg		11/14/2022 21:34
trans-1,2-Dichloroethene	<1000	ug/Kg		11/14/2022 21:34
trans-1,3-Dichloropropene	<1000	ug/Kg		11/14/2022 21:34
Trichloroethene	<1000	ug/Kg		11/14/2022 21:34
Trichlorofluoromethane	<1000	ug/Kg		11/14/2022 21:34
Vinyl chloride	<1000	ug/Kg		11/14/2022 21:34

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	96.2	74.7 - 140		11/14/2022 21:34
4-Bromofluorobenzene	91.3	68 - 130		11/14/2022 21:34
Pentafluorobenzene	98.4	70.3 - 140		11/14/2022 21:34
Toluene-D8	99.2	69 - 138		11/14/2022 21:34

Method Reference(s): EPA 8260C
 EPA 5035A -- H
Data File: z13451.D
QC Batch ID: voahl221114
QC Number: Blk 2

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Lab Project ID: 225421

Matrix: Solid

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS% Recovery	%Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/Kg	19.4	96.8	70.9 - 135		11/14/2022
1,1,2,2-Tetrachloroethane	20.0	ug/Kg	19.1	95.7	31.6 - 154		11/14/2022
1,1,2-Trichloroethane	20.0	ug/Kg	19.6	98.1	62 - 132		11/14/2022
1,1-Dichloroethane	20.0	ug/Kg	19.2	96.2	73 - 128		11/14/2022
1,1-Dichloroethene	20.0	ug/Kg	19.5	97.5	61.7 - 119		11/14/2022
1,2-Dichlorobenzene	20.0	ug/Kg	19.1	95.6	61 - 118		11/14/2022
1,2-Dichloroethane	20.0	ug/Kg	19.4	97.1	73.4 - 123		11/14/2022
1,2-Dichloropropane	20.0	ug/Kg	19.6	98.2	71.3 - 123		11/14/2022
1,3-Dichlorobenzene	20.0	ug/Kg	18.9	94.6	68.7 - 112		11/14/2022
1,4-Dichlorobenzene	20.0	ug/Kg	18.8	94.2	66.9 - 113		11/14/2022
Benzene	20.0	ug/Kg	20.4	102	77.8 - 119		11/14/2022
Bromodichloromethane	20.0	ug/Kg	19.7	98.4	65.7 - 125		11/14/2022
Bromoform	20.0	ug/Kg	19.2	96.1	54.7 - 130		11/14/2022
Bromomethane	20.0	ug/Kg	19.7	98.3	44.6 - 167		11/14/2022
Carbon Tetrachloride	20.0	ug/Kg	20.0	100	61.8 - 138		11/14/2022
Chlorobenzene	20.0	ug/Kg	20.3	102	77.2 - 108		11/14/2022

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Lab Project ID: 225421

Matrix: Solid

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroethane	20.0	ug/Kg	19.2	96.1	55.5 - 151		11/14/2022
Chloroform	20.0	ug/Kg	19.5	97.4	70.1 - 134		11/14/2022
Chloromethane	20.0	ug/Kg	17.3	86.6	42.4 - 168		11/14/2022
cis-1,3-Dichloropropene	20.0	ug/Kg	19.3	96.5	66.7 - 122		11/14/2022
Dibromochloromethane	20.0	ug/Kg	19.7	98.3	61.2 - 130		11/14/2022
Ethylbenzene	20.0	ug/Kg	18.9	94.5	71.6 - 112		11/14/2022
Methylene chloride	20.0	ug/Kg	19.3	96.7	38.2 - 155		11/14/2022
Tetrachloroethene	20.0	ug/Kg	20.0	100	61.4 - 137		11/14/2022
Toluene	20.0	ug/Kg	19.8	98.8	71.1 - 124		11/14/2022
trans-1,2-Dichloroethene	20.0	ug/Kg	19.7	98.4	67.3 - 127		11/14/2022
trans-1,3-Dichloropropene	20.0	ug/Kg	18.9	94.6	55 - 126		11/14/2022
Trichloroethene	20.0	ug/Kg	20.2	101	69.3 - 128		11/14/2022
Trichlorofluoromethane	20.0	ug/Kg	20.0	100	64 - 140		11/14/2022
Vinyl chloride	20.0	ug/Kg	19.2	95.8	51.2 - 160		11/14/2022

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Laboratory Control Sample

Client: **Inventum Engineering, P.C.**

Project Reference: **Concrete Cores**

Lab Project ID: **225421**

Matrix: **Solid**

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
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Method Reference(s): EPA 8260C
 EPA 5035A -- H
 Data File: z13420.D
 QC Number: LCS 1
 QC Batch ID: voahl221114

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Concrete Cores
Lab Project ID: 225421
Matrix: TCLP Fluid

TCLP Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	<20.0	ug/L		11/17/2022 11:36
1,2-Dichloroethane	<20.0	ug/L		11/17/2022 11:36
2-Butanone	<100	ug/L		11/17/2022 11:36
Benzene	<20.0	ug/L		11/17/2022 11:36
Carbon Tetrachloride	<20.0	ug/L		11/17/2022 11:36
Chlorobenzene	<20.0	ug/L		11/17/2022 11:36
Chloroform	<20.0	ug/L		11/17/2022 11:36
Tetrachloroethene	<20.0	ug/L		11/17/2022 11:36
Trichloroethene	<20.0	ug/L		11/17/2022 11:36
Vinyl chloride	<20.0	ug/L		11/17/2022 11:36

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	100	81.1 - 136		11/17/2022 11:36
4-Bromofluorobenzene	87.9	75.8 - 132		11/17/2022 11:36
Pentafluorobenzene	102	82 - 132		11/17/2022 11:36
Toluene-D8	101	64.6 - 137		11/17/2022 11:36

Method Reference(s): EPA 8260C
EPA 5030
Data File: z13532.D
QC Batch ID: voax221117
QC Number: Blk 1



QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Concrete Cores

Lab Project ID: 225421

Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1-Dichloroethene	20.0	ug/L	18.3	91.7	65.5 - 116		11/17/2022
1,2-Dichloroethane	20.0	ug/L	18.7	93.6	78.3 - 122		11/17/2022
Benzene	20.0	ug/L	19.6	98.2	81.6 - 114		11/17/2022
Carbon Tetrachloride	20.0	ug/L	19.6	98.2	76.4 - 129		11/17/2022
Chlorobenzene	20.0	ug/L	18.9	94.7	77.2 - 106		11/17/2022
Chloroform	20.0	ug/L	19.2	96.1	84.5 - 122		11/17/2022
Tetrachloroethene	20.0	ug/L	20.4	102	64.4 - 130		11/17/2022
Trichloroethene	20.0	ug/L	19.1	95.4	73.4 - 122		11/17/2022
Vinyl chloride	20.0	ug/L	15.4	77.0	50.9 - 164		11/17/2022

Method Reference(s):

EPA 8260C
EPA 5030
213531.D
Data File:
LCS 1
QC Number:
voax221117
QC Batch ID:

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

CHAIN OF CUSTODY



PARADIGM

REPORT TO:

INVOICE TO:

CLIENT: INVENTUM ENGINEERING ADDRESS: 491 CAROLINE DR SUITE C CITY: HENDON VA STATE: VA ZIP: 20170 PHONE: 585-734-5255	CLIENT: SAME ADDRESS: STATE: ZIP: CITY: PHONE:	LAB PROJECT ID: 225421
PROJECT REFERENCE: CONCRETE CORES	ATTN: JOHAN BIRAX, ROYANNE BIRAX	Quotation #: 225421
Matrix Codes: AQ - Aqueous Liquid, NAQ - Non-Aqueous Liquid, WA - Water, WGW - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid PT - Paint, WP - Wipe CK - Caulk, OL - Oil, AR - Air	REQUESTED ANALYSIS	Email: John.birax@inventumeng.com, roxanne.birax@inventumeng.com

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MACTDRES	CONCRETE	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/7/22	15:15	X		CORE - BCP Ø 6W - 11072022	SD	1	A for TCLP extract 28/11/22	2014
11/7/22	15:30	X		CORE - BCP Ø 6E - 11072022		1		2014
11/8/22	11:15	X		CORE - SCBULLETS - 11082022		1		2034
11/8/22	11:20	X		CORE - BCP Ø 4S - 11082022		1		2044
11/8/22	11:25	X		CORE - BCP Ø 4N - 11082022		1		2054
11/8/22	11:35	X		CORE - BCP Ø 4N - 11082022		1		2064
11/8/22	11:45	X		CORE - BCP Ø 5S - 11082022		1		2074
11/8/22	11:50	X		CORE - BCP Ø 5S SUB FLOOR - 11082022		1		2084

Turnaround Time: Standard 5 day, 10 day, Rush 3 day, Rush 2 day, Rush 1 day, Date Needed

Availability contingent upon lab approval; additional fees may apply.

Report Supplements: None Required, Batch QC, Category A, Category B, Other

Other EDD: Other:

ROXANNE BIRAX

Sampled By: *Roxanne Birax* Date/Time: 11/8/22 16:00 Total Cost:

Retrieved By: *John Birax* Date/Time: 11-9-22 12:11 P.I.F.

Received @ Lab By: *John Birax* Date/Time: 11/9/22 28/11/22

By signing this form, client agrees to Paradigm Terms and Conditions (reverse). See web @ 11/9/22 See additional page for sample conditions.

2082



Chain of Custody Supplement

Client: Invernum Completed by: ZF
 Lab Project ID: 225421 Date: 11/10/22

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments	<u>SOSS plastic bag</u>		
Transferred to method-compliant container	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>5°C iced</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			

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ANALYTICAL REPORT

PREPARED FOR

Attn: John Black
Inventum Engineering LLC
441 Carlisle Drive
Suite C
Herndon, Virginia 20170

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JOB DESCRIPTION

RITC - 3875 River Road, Tonawanda NY

JOB NUMBER

480-216732-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Revision 2

Authorized for release by
Kavya Boyina, Project Manager
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Designee for
Brian Fischer, Manager of Project Management
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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

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Definitions/Glossary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Inventum Engineering LLC
Project: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Job ID: 480-216732-1

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Job Narrative 480-216732-1

Revision 2

The report being provided is a revision of the original report sent on 2/19/2024. The report (revision 2) is being revised to add additional analytes to method 8260.

Report revision history

Revision 1 - 9/11/2024 - The report being provided is a revision of the original report sent on 2/19/2024. The report (revision 1) is being revised due to a sample switch during the extraction process.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 6.4°C and 7.9°C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: F-LOA-07-01292024 (480-216732-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: F-LOA-07-01292024 (480-216732-7).

Method 8260C: The following samples were analyzed using medium level soil analysis due to the nature of the sample matrix: F-LOA-01-01302024 (480-216732-1), F-LOA-04-01302024 (480-216732-4) and F-LOA-06-01302024 (480-216732-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: F-LOA-03-01302024 (480-216732-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: F-LOA-03-01302024 (480-216732-3). Elevated reporting limits (RLs) are provided.

Method 8260C - TCLP: The following samples were diluted due to the nature of the sample matrix: F-LOA-01-01302024 (480-216732-1), F-LOA-02-01302024 (480-216732-2), F-LOA-03-01302024 (480-216732-3), F-LOA-04-01302024 (480-216732-4), F-LOA-05-01302024 (480-216732-5), F-LOA-06-01302024 (480-216732-6) and (LB 480-699601/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270D: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: F-LOA-07-01292024 (480-216732-7). The reporting limits (RLs) have been adjusted proportionately.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-699935 recovered outside acceptance criteria, low biased, for 4-Nitroaniline, Bis(2-chloroethyl)ether and Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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Case Narrative

Client: Inventum Engineering LLC
Project: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Job ID: 480-216732-1 (Continued)

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Method 8270D: The following sample required a dilution due to the nature of the sample matrix: F-LOA-07-01292024 (480-216732-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-700197 recovered outside acceptance criteria, low biased, for multiple analytes. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: F-LOA-03-01302024 (480-216732-3). These results have been reported and qualified.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: F-LOA-01-01302024 (480-216732-1), F-LOA-04-01302024 (480-216732-4), (480-216732-E-4-A MS) and (480-216732-E-4-B MSD). Elevated reporting limits (RLs) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-699565 and analytical batch 480-699735 were below the method detection limit (MDL) for 2,4-Dinitrophenol. Percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D - TCLP: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: F-LOA-01-01302024 (480-216732-1) and F-LOA-05-01302024 (480-216732-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 8151A - TCLP: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: F-LOA-01-01302024 (480-216732-1) and F-LOA-05-01302024 (480-216732-5).

Method 8151A - TCLP: Surrogate recovery for the following samples were outside control limits: F-LOA-03-01302024 (480-216732-3), F-LOA-04-01302024 (480-216732-4) and F-LOA-06-01302024 (480-216732-6). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B - TCLP: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: F-LOA-01-01302024 (480-216732-1) and F-LOA-05-01302024 (480-216732-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS

Method 1633_B24: Due to lab error, samples F-LOA-04-01302024 (480-216732-4) were swapped on Promochrom B positions 5 and 6 during solid phase extraction and eluted into the the incorrect position. The error was identified and data have been revised.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): F-LOA-07-01292024 (480-216732-7). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 1/6 dilution, which maintained the purple color during digestion.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The

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Case Narrative

Client: Inventum Engineering LLC
Project: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Job ID: 480-216732-1 (Continued)

Eurofins Buffalo

following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: F-LOA-07-01292024 (480-216732-7).

Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: F-LOA-01-01302024 (480-216732-1), F-LOA-02-01302024 (480-216732-2), F-LOA-03-01302024 (480-216732-3), F-LOA-04-01302024 (480-216732-4), F-LOA-05-01302024 (480-216732-5) and F-LOA-06-01302024 (480-216732-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Buffalo



Detection Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.073		0.010	0.0041	mg/L	10		8260C	TCLP
1,2,4-Trimethylbenzene	87		68	19	ug/Kg	1	✳	8260C	Total/NA
1,3,5-Trimethylbenzene	57	J	68	21	ug/Kg	1	✳	8260C	Total/NA
Benzene	2400		68	13	ug/Kg	1	✳	8260C	Total/NA
Ethylbenzene	790		68	20	ug/Kg	1	✳	8260C	Total/NA
m,p-Xylene	1200		140	38	ug/Kg	1	✳	8260C	Total/NA
o-Xylene	470		68	8.8	ug/Kg	1	✳	8260C	Total/NA
Styrene	41	J	68	16	ug/Kg	1	✳	8260C	Total/NA
Toluene	280		68	18	ug/Kg	1	✳	8260C	Total/NA
Xylenes, Total	1700		140	38	ug/Kg	1	✳	8260C	Total/NA
2-Methylnaphthalene	330		240	48	ug/Kg	1	✳	8270D	Total/NA
2-Methylphenol	32	J	240	28	ug/Kg	1	✳	8270D	Total/NA
4-Methylphenol	55	J	460	28	ug/Kg	1	✳	8270D	Total/NA
Acenaphthene	87	J	240	35	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	200	J	240	31	ug/Kg	1	✳	8270D	Total/NA
Anthracene	240		240	59	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	460		240	24	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	380		240	35	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	480		240	38	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	290		240	25	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	220	J	240	31	ug/Kg	1	✳	8270D	Total/NA
Biphenyl	60	J	240	35	ug/Kg	1	✳	8270D	Total/NA
Carbazole	70	J	240	28	ug/Kg	1	✳	8270D	Total/NA
Chrysene	400		240	53	ug/Kg	1	✳	8270D	Total/NA
Dibenzofuran	190	J	240	28	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	840		240	25	ug/Kg	1	✳	8270D	Total/NA
Fluorene	260		240	28	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	250		240	30	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	14000	E	240	31	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	930		240	35	ug/Kg	1	✳	8270D	Total/NA
Pyrene	910		240	28	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene - DL	480	J	2400	240	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]pyrene - DL	410	J	2400	350	ug/Kg	10	✳	8270D	Total/NA
Benzo[b]fluoranthene - DL	510	J	2400	380	ug/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene - DL	280	J	2400	250	ug/Kg	10	✳	8270D	Total/NA
Fluoranthene - DL	950	J	2400	250	ug/Kg	10	✳	8270D	Total/NA
Fluorene - DL	310	J	2400	280	ug/Kg	10	✳	8270D	Total/NA
Naphthalene - DL	14000		2400	310	ug/Kg	10	✳	8270D	Total/NA
Phenanthrene - DL	930	J	2400	350	ug/Kg	10	✳	8270D	Total/NA
Pyrene - DL	830	J	2400	280	ug/Kg	10	✳	8270D	Total/NA
Barium	0.50	J	1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.011	J B	0.020	0.0030	mg/L	1		6010C	TCLP
Mercury	0.15		0.024	0.0055	mg/Kg	1	✳	7471B	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	74.3		9.3	9.3	mg/Kg	1		9034	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	10	J	22	1.6	ug/Kg	1	✳	8260C	Total/NA
Acetone	52		22	3.8	ug/Kg	1	✳	8260C	Total/NA
Benzene	1.5	J	4.5	0.22	ug/Kg	1	✳	8260C	Total/NA
o-Xylene	0.86	J	4.5	0.58	ug/Kg	1	✳	8260C	Total/NA
Toluene	0.37	J	4.5	0.34	ug/Kg	1	✳	8260C	Total/NA
Xylenes, Total	0.86	J	8.9	0.75	ug/Kg	1	✳	8260C	Total/NA
2-Methylnaphthalene	56	J	220	45	ug/Kg	1	✳	8270D	Total/NA
4-Methylphenol	28	J	440	26	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	42	J	220	29	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	87	J	220	22	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	76	J	220	33	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	100	J	220	36	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	77	J	220	24	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	47	J	220	29	ug/Kg	1	✳	8270D	Total/NA
Dibenzofuran	32	J	220	26	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	150	J	220	24	ug/Kg	1	✳	8270D	Total/NA
Fluorene	45	J	220	26	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	64	J	220	28	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	410		220	29	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	150	J	220	33	ug/Kg	1	✳	8270D	Total/NA
Pyrene	170	J	220	26	ug/Kg	1	✳	8270D	Total/NA
Arsenic	0.0064	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.30	J	1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.0052	J B	0.020	0.0030	mg/L	1		6010C	TCLP
Mercury	0.12		0.027	0.0063	mg/Kg	1	✳	7471B	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.76		0.010	0.0041	mg/L	10		8260C	TCLP
Benzene	41000	E	310	58	ug/Kg	4	✳	8260C	Total/NA
Ethylbenzene	220	J	310	89	ug/Kg	4	✳	8260C	Total/NA
m,p-Xylene	620		610	170	ug/Kg	4	✳	8260C	Total/NA
o-Xylene	230	J	310	40	ug/Kg	4	✳	8260C	Total/NA
Toluene	210	J	310	82	ug/Kg	4	✳	8260C	Total/NA
Xylenes, Total	850		610	170	ug/Kg	4	✳	8260C	Total/NA
Benzene - DL	28000		610	120	ug/Kg	8	✳	8260C	Total/NA
Ethylbenzene - DL	210	J	610	180	ug/Kg	8	✳	8260C	Total/NA
m,p-Xylene - DL	600	J	1200	340	ug/Kg	8	✳	8260C	Total/NA
o-Xylene - DL	220	J	610	80	ug/Kg	8	✳	8260C	Total/NA
Xylenes, Total - DL	820	J	1200	340	ug/Kg	8	✳	8260C	Total/NA
2,4-Dimethylphenol	86	J	240	58	ug/Kg	1	✳	8270D	Total/NA
2-Methylphenol	59	J	240	28	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	76	J	240	31	ug/Kg	1	✳	8270D	Total/NA
2-Methylphenol	0.0069	J	0.020	0.0016	mg/L	1		8270D	TCLP
3-Methylphenol	0.0031	J	0.040	0.0016	mg/L	1		8270D	TCLP
4-Methylphenol	0.0031	J	0.040	0.0014	mg/L	1		8270D	TCLP
Arsenic	0.041		0.015	0.0056	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024 (Continued)

Lab Sample ID: 480-216732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.42	J	1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.018	J B	0.020	0.0030	mg/L	1		6010C	TCLP
Mercury	0.060		0.029	0.0067	mg/Kg	1	☼	7471B	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	147		9.1	9.1	mg/Kg	1		9034	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	160		48	13	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	110		48	14	ug/Kg	1	☼	8260C	Total/NA
Benzene	730		48	9.1	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	54		48	14	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	500		96	27	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	100		48	6.2	ug/Kg	1	☼	8260C	Total/NA
Styrene	72		48	12	ug/Kg	1	☼	8260C	Total/NA
Toluene	470		48	13	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	600		96	27	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	240		210	41	ug/Kg	1	☼	8270D	Total/NA
2-Methylphenol	35	J	210	24	ug/Kg	1	☼	8270D	Total/NA
4-Methylphenol	66	J	400	24	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	59	J	210	30	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	140	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Anthracene	140	J	210	51	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	270		210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	290		210	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	360		210	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	270		210	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	160	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Biphenyl	41	J	210	30	ug/Kg	1	☼	8270D	Total/NA
Carbazole	56	J	210	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	260		210	46	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	110	J	210	24	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	470		210	22	ug/Kg	1	☼	8270D	Total/NA
Fluorene	150	J	210	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200	J	210	25	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	8600	E	210	27	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	490		210	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	550		210	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	280	J	2100	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	300	J	2100	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	520	J	2100	330	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	230	J	2100	220	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene - DL	570	J	2100	220	ug/Kg	10	☼	8270D	Total/NA
Naphthalene - DL	8200		2100	270	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	490	J	2100	300	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	490	J	2100	240	ug/Kg	10	☼	8270D	Total/NA
Barium	0.87	J	1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.012	J B	0.020	0.0030	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024 (Continued)

Lab Sample ID: 480-216732-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.38		0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	9.2	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.9	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.6	J	4.4	0.84	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3.5	J	4.4	0.28	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	3.0	J	22	1.6	ug/Kg	1	☼	8260C	Total/NA
Acetone	40		22	3.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.5	J	4.4	0.22	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	1.6	J	4.4	0.30	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	19		8.8	0.74	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	7.6		4.4	0.57	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.1	J	4.4	0.33	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	27		8.8	0.74	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	160	J	220	43	ug/Kg	1	☼	8270D	Total/NA
4-Methylphenol	31	J	420	25	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	78	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Anthracene	92	J	220	53	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120	J	220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110	J	220	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	130	J	220	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	95	J	220	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	67	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Carbazole	32	J	220	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150	J	220	48	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	67	J	220	25	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	230		220	23	ug/Kg	1	☼	8270D	Total/NA
Fluorene	98	J	220	25	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	77	J	220	27	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	2500		220	28	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	320		220	32	ug/Kg	1	☼	8270D	Total/NA
Pyrene	240		220	25	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.0070	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.62	J	1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.019	J B	0.020	0.0030	mg/L	1		6010C	TCLP
Mercury	0.087		0.024	0.0056	mg/Kg	1	☼	7471B	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
Sulfide, Reactive	19.5		9.8	9.8	mg/Kg	1		9034	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.019		0.010	0.0041	mg/L	10		8260C	TCLP
1,2,4-Trimethylbenzene	310		56	16	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	190		56	17	ug/Kg	1	☼	8260C	Total/NA
Benzene	1600		56	11	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-06-01302024 (Continued)

Lab Sample ID: 480-216732-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	14	J	56	13	ug/Kg	1	✳	8260C	Total/NA
Ethylbenzene	87		56	16	ug/Kg	1	✳	8260C	Total/NA
Isopropylbenzene	9.0	J	56	8.5	ug/Kg	1	✳	8260C	Total/NA
m,p-Xylene	830		110	31	ug/Kg	1	✳	8260C	Total/NA
Methyl acetate	81	J	280	27	ug/Kg	1	✳	8260C	Total/NA
o-Xylene	190		56	7.3	ug/Kg	1	✳	8260C	Total/NA
Styrene	99		56	14	ug/Kg	1	✳	8260C	Total/NA
Toluene	730		56	15	ug/Kg	1	✳	8260C	Total/NA
Xylenes, Total	1000		110	31	ug/Kg	1	✳	8260C	Total/NA
2-Methylnaphthalene	82	J	220	44	ug/Kg	1	✳	8270D	Total/NA
2-Methylphenol	43	J	220	26	ug/Kg	1	✳	8270D	Total/NA
4-Methylphenol	100	J	420	26	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	66	J	220	28	ug/Kg	1	✳	8270D	Total/NA
Anthracene	67	J	220	54	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	160	J	220	22	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	150	J	220	32	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	190	J	220	35	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	140	J	220	23	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	87	J	220	28	ug/Kg	1	✳	8270D	Total/NA
Chrysene	160	J	220	49	ug/Kg	1	✳	8270D	Total/NA
Dibenzofuran	40	J	220	26	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	260		220	23	ug/Kg	1	✳	8270D	Total/NA
Fluorene	58	J	220	26	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110	J	220	27	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	720		220	28	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	210	J	220	32	ug/Kg	1	✳	8270D	Total/NA
Phenol	230		220	33	ug/Kg	1	✳	8270D	Total/NA
Pyrene	300		220	26	ug/Kg	1	✳	8270D	Total/NA
2-Methylphenol	0.0030	J	0.025	0.0020	mg/L	1		8270D	TCLP
3-Methylphenol	0.0056	J	0.050	0.0020	mg/L	1		8270D	TCLP
4-Methylphenol	0.0056	J	0.050	0.0018	mg/L	1		8270D	TCLP
Arsenic	0.0070	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	1.3		1.0	0.10	mg/L	1		6010C	TCLP
Lead	0.047	B	0.020	0.0030	mg/L	1		6010C	TCLP
Mercury	0.000080	J	0.00020	0.000043	mg/L	1		7470A	TCLP
Mercury	0.62		0.027	0.0062	mg/Kg	1	✳	7471B	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	10	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	55		50	38	ug/L	50		8260C	Total/NA
Benzene	2000		50	21	ug/L	50		8260C	Total/NA
m,p-Xylene	410		100	33	ug/L	50		8260C	Total/NA
o-Xylene	110		50	38	ug/L	50		8260C	Total/NA
Styrene	59		50	37	ug/L	50		8260C	Total/NA
Toluene	770		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	520		100	33	ug/L	50		8260C	Total/NA
2,4-Dimethylphenol	160		25	2.5	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024 (Continued)

Lab Sample ID: 480-216732-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	100		25	3.0	ug/L	1		8270D	Total/NA
2-Methylphenol	340	E	25	2.0	ug/L	1		8270D	Total/NA
4-Chloroaniline	640	E	25	3.0	ug/L	1		8270D	Total/NA
4-Methylphenol	680	E	50	1.8	ug/L	1		8270D	Total/NA
Acenaphthene	20	J	25	2.1	ug/L	1		8270D	Total/NA
Acenaphthylene	40		25	1.9	ug/L	1		8270D	Total/NA
Acetophenone	46		25	2.7	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	7.7	J	25	1.8	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	6.4	J	25	2.4	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	10	J	25	1.7	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	5.3	J	25	1.8	ug/L	1		8270D	Total/NA
Carbazole	37		25	1.5	ug/L	1		8270D	Total/NA
Chrysene	8.8	J	25	1.7	ug/L	1		8270D	Total/NA
Dibenzofuran	24	J	50	2.6	ug/L	1		8270D	Total/NA
Fluoranthene	26		25	2.0	ug/L	1		8270D	Total/NA
Fluorene	27		25	1.8	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4.2	J	25	2.4	ug/L	1		8270D	Total/NA
Naphthalene	1200	E	25	3.8	ug/L	1		8270D	Total/NA
Phenanthrene	38		25	2.2	ug/L	1		8270D	Total/NA
Phenol	830	E	25	2.0	ug/L	1		8270D	Total/NA
Pyrene	21	J	25	1.7	ug/L	1		8270D	Total/NA
2-Methylphenol - DL	220	J	1300	100	ug/L	50		8270D	Total/NA
4-Methylphenol - DL	390	J	2500	90	ug/L	50		8270D	Total/NA
Naphthalene - DL	9900		1300	190	ug/L	50		8270D	Total/NA
Phenol - DL	640	J	1300	98	ug/L	50		8270D	Total/NA
Mercury	0.15		0.0012	0.00026	mg/L	1		7470A	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
Ammonia	12.1		0.20	0.090	mg/L	10		350.1	Total/NA
pH	10.5	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	18.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 13:57	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 13:57	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 13:57	10
Benzene	0.073		0.010	0.0041	mg/L			02/05/24 13:57	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 13:57	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 13:57	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 13:57	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 13:57	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 13:57	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 13:57	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					02/05/24 13:57	10
4-Bromofluorobenzene (Surr)	94		73 - 120					02/05/24 13:57	10
Dibromofluoromethane (Surr)	91		75 - 123					02/05/24 13:57	10
Toluene-d8 (Surr)	99		80 - 120					02/05/24 13:57	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		68	19	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,1,2,2-Tetrachloroethane	ND		68	11	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		68	34	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,1,2-Trichloroethane	ND		68	14	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,1-Dichloroethane	ND		68	21	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,1-Dichloroethene	ND		68	24	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2,4-Trichlorobenzene	ND		68	26	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2,4-Trimethylbenzene	87		68	19	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2-Dibromo-3-Chloropropane	ND		68	34	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2-Dibromoethane	ND		68	12	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2-Dichlorobenzene	ND		68	17	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2-Dichloroethane	ND		68	28	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,2-Dichloropropane	ND		68	11	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,3,5-Trimethylbenzene	57 J		68	21	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,3-Dichlorobenzene	ND		68	18	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
1,4-Dichlorobenzene	ND		68	9.5	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
2-Butanone (MEK)	ND		340	200	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
2-Hexanone	ND		340	140	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		340	22	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Acetone	ND		340	280	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Benzene	2400		68	13	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Bromodichloromethane	ND		68	14	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Bromoform	ND		68	34	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Bromomethane	ND		68	15	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Carbon disulfide	ND		68	31	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Carbon tetrachloride	ND		68	17	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Chlorobenzene	ND		68	9.0	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Chloroethane	ND		68	14	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Chloroform	ND		68	47	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
Chloromethane	ND		68	16	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1
cis-1,2-Dichloroethene	ND		68	19	ug/Kg	☆	02/02/24 09:13	02/02/24 13:45	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		68	16	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Cyclohexane	ND		68	15	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Dibromochloromethane	ND		68	33	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Dichlorodifluoromethane	ND		68	30	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Ethylbenzene	790		68	20	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Isopropylbenzene	ND		68	10	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
m,p-Xylene	1200		140	38	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Methyl acetate	ND		340	32	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Methyl tert-butyl ether	ND		68	26	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Methylcyclohexane	ND		68	32	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Methylene Chloride	ND		68	13	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
o-Xylene	470		68	8.8	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Styrene	41 J		68	16	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Tetrachloroethene	ND		68	9.1	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Toluene	280		68	18	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
trans-1,2-Dichloroethene	ND		68	16	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
trans-1,3-Dichloropropene	ND		68	6.7	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Trichloroethene	ND		68	19	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Trichlorofluoromethane	ND		68	32	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Vinyl chloride	ND		68	23	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Xylenes, Total	1700		140	38	ug/Kg	*	02/02/24 09:13	02/02/24 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		53 - 146				02/02/24 09:13	02/02/24 13:45	1
4-Bromofluorobenzene (Surr)	96		49 - 148				02/02/24 09:13	02/02/24 13:45	1
Dibromofluoromethane (Surr)	90		60 - 140				02/02/24 09:13	02/02/24 13:45	1
Toluene-d8 (Surr)	97		50 - 149				02/02/24 09:13	02/02/24 13:45	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	77	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,4,5-Trichlorophenol	ND		240	65	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,4,6-Trichlorophenol	ND		240	48	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,4-Dichlorophenol	ND		240	25	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,4-Dimethylphenol	ND		240	58	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,4-Dinitrophenol	ND		2300	1100	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,4-Dinitrotoluene	ND		240	49	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2,6-Dinitrotoluene	ND		240	28	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2-Chloronaphthalene	ND		240	39	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2-Chlorophenol	ND		460	44	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2-Methylnaphthalene	330		240	48	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2-Methylphenol	32 J		240	28	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2-Nitroaniline	ND		460	35	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
2-Nitrophenol	ND		240	67	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
3,3'-Dichlorobenzidine	ND		460	280	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
3-Nitroaniline	ND		460	66	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
4,6-Dinitro-2-methylphenol	ND		460	240	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
4-Bromophenyl phenyl ether	ND		240	34	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
4-Chloro-3-methylphenol	ND		240	59	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1
4-Chloroaniline	ND		240	59	ug/Kg	*	01/31/24 16:11	02/01/24 19:26	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		240	30	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
4-Methylphenol	55	J	460	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
4-Nitroaniline	ND		460	130	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
4-Nitrophenol	ND		460	170	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Acenaphthene	87	J	240	35	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Acenaphthylene	200	J	240	31	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Acetophenone	ND		240	32	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Anthracene	240		240	59	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Atrazine	ND		240	83	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Benzaldehyde	ND		240	190	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Benzo[a]anthracene	460		240	24	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Benzo[a]pyrene	380		240	35	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Benzo[b]fluoranthene	480		240	38	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Benzo[g,h,i]perylene	290		240	25	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Benzo[k]fluoranthene	220	J	240	31	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Biphenyl	60	J	240	35	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
bis (2-chloroisopropyl) ether	ND		240	48	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Bis(2-chloroethoxy)methane	ND		240	51	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Bis(2-chloroethyl)ether	ND		240	31	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Bis(2-ethylhexyl) phthalate	ND		240	82	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Butyl benzyl phthalate	ND		240	39	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Caprolactam	ND		240	72	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Carbazole	70	J	240	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Chrysene	400		240	53	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Dibenz(a,h)anthracene	ND		240	42	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Dibenzofuran	190	J	240	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Diethyl phthalate	ND		240	31	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Dimethyl phthalate	ND		240	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Di-n-butyl phthalate	ND		240	41	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Di-n-octyl phthalate	ND		240	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Fluoranthene	840		240	25	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Fluorene	260		240	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Hexachlorobenzene	ND		240	32	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Hexachlorobutadiene	ND		240	35	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Hexachlorocyclopentadiene	ND		240	32	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Hexachloroethane	ND		240	31	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Indeno[1,2,3-cd]pyrene	250		240	30	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Isophorone	ND		240	51	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Naphthalene	14000	E	240	31	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Nitrobenzene	ND		240	27	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
N-Nitrosodi-n-propylamine	ND		240	41	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
N-Nitrosodiphenylamine	ND		240	190	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Pentachlorophenol	ND		460	240	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Phenanthrene	930		240	35	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Phenol	ND		240	37	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1
Pyrene	910		240	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		54 - 120	01/31/24 16:11	02/01/24 19:26	1
2-Fluorobiphenyl (Surr)	98		60 - 120	01/31/24 16:11	02/01/24 19:26	1

Eurofins Buffalo

Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	81		52 - 120	01/31/24 16:11	02/01/24 19:26	1
Nitrobenzene-d5 (Surr)	91		53 - 120	01/31/24 16:11	02/01/24 19:26	1
Phenol-d5 (Surr)	87		54 - 120	01/31/24 16:11	02/01/24 19:26	1
p-Terphenyl-d14 (Surr)	99		79 - 130	01/31/24 16:11	02/01/24 19:26	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1400	770	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,4,5-Trichlorophenol	ND		2400	650	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,4,6-Trichlorophenol	ND		2400	480	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,4-Dichlorophenol	ND		2400	250	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,4-Dimethylphenol	ND		2400	580	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,4-Dinitrophenol	ND		23000	11000	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,4-Dinitrotoluene	ND		2400	490	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2,6-Dinitrotoluene	ND		2400	280	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2-Chloronaphthalene	ND		2400	390	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2-Chlorophenol	ND		4600	440	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2-Methylnaphthalene	ND		2400	480	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2-Methylphenol	ND		2400	280	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2-Nitroaniline	ND		4600	350	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
2-Nitrophenol	ND		2400	670	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
3,3'-Dichlorobenzidine	ND		4600	2800	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
3-Nitroaniline	ND		4600	660	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4,6-Dinitro-2-methylphenol	ND		4600	2400	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Bromophenyl phenyl ether	ND		2400	340	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Chloro-3-methylphenol	ND		2400	590	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Chloroaniline	ND		2400	590	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Chlorophenyl phenyl ether	ND		2400	300	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Methylphenol	ND		4600	280	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Nitroaniline	ND		4600	1300	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
4-Nitrophenol	ND		4600	1700	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Acenaphthene	ND		2400	350	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Acenaphthylene	ND		2400	310	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Acetophenone	ND		2400	320	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Anthracene	ND		2400	590	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Atrazine	ND		2400	830	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Benzaldehyde	ND		2400	1900	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Benzo[a]anthracene	480 J		2400	240	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Benzo[a]pyrene	410 J		2400	350	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Benzo[b]fluoranthene	510 J		2400	380	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Benzo[g,h,i]perylene	280 J		2400	250	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Benzo[k]fluoranthene	ND		2400	310	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Biphenyl	ND		2400	350	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
bis (2-chloroisopropyl) ether	ND		2400	480	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Bis(2-chloroethoxy)methane	ND		2400	510	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Bis(2-chloroethyl)ether	ND		2400	310	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Bis(2-ethylhexyl) phthalate	ND		2400	820	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Butyl benzyl phthalate	ND		2400	390	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10
Caprolactam	ND		2400	720	ug/Kg	☆	01/31/24 16:11	02/02/24 13:53	10

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		2400	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Chrysene	ND		2400	530	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Dibenz(a,h)anthracene	ND		2400	420	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Dibenzofuran	ND		2400	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Diethyl phthalate	ND		2400	310	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Dimethyl phthalate	ND		2400	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Di-n-butyl phthalate	ND		2400	410	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Di-n-octyl phthalate	ND		2400	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Fluoranthene	950	J	2400	250	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Fluorene	310	J	2400	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Hexachlorobenzene	ND		2400	320	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Hexachlorobutadiene	ND		2400	350	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Hexachlorocyclopentadiene	ND		2400	320	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Hexachloroethane	ND		2400	310	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Indeno[1,2,3-cd]pyrene	ND		2400	300	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Isophorone	ND		2400	510	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Naphthalene	14000		2400	310	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Nitrobenzene	ND		2400	270	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
N-Nitrosodi-n-propylamine	ND		2400	410	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
N-Nitrosodiphenylamine	ND		2400	1900	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Pentachlorophenol	ND		4600	2400	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Phenanthrene	930	J	2400	350	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Phenol	ND		2400	370	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10
Pyrene	830	J	2400	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		54 - 120	01/31/24 16:11	02/02/24 13:53	10
2-Fluorobiphenyl (Surr)	72		60 - 120	01/31/24 16:11	02/02/24 13:53	10
2-Fluorophenol (Surr)	74		52 - 120	01/31/24 16:11	02/02/24 13:53	10
Nitrobenzene-d5 (Surr)	67		53 - 120	01/31/24 16:11	02/02/24 13:53	10
Phenol-d5 (Surr)	65		54 - 120	01/31/24 16:11	02/02/24 13:53	10
p-Terphenyl-d14 (Surr)	87		79 - 130	01/31/24 16:11	02/02/24 13:53	10

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.10	0.0045	mg/L		02/02/24 13:57	02/05/24 16:36	1
2,4,5-Trichlorophenol	ND		0.050	0.0048	mg/L		02/02/24 13:57	02/05/24 16:36	1
2,4,6-Trichlorophenol	ND		0.050	0.0060	mg/L		02/02/24 13:57	02/05/24 16:36	1
2,4-Dinitrotoluene	ND		0.050	0.0043	mg/L		02/02/24 13:57	02/05/24 16:36	1
2-Methylphenol	ND		0.050	0.0040	mg/L		02/02/24 13:57	02/05/24 16:36	1
3-Methylphenol	ND		0.10	0.0040	mg/L		02/02/24 13:57	02/05/24 16:36	1
4-Methylphenol	ND		0.10	0.0035	mg/L		02/02/24 13:57	02/05/24 16:36	1
Hexachlorobenzene	ND		0.050	0.0050	mg/L		02/02/24 13:57	02/05/24 16:36	1
Hexachlorobutadiene	ND		0.050	0.0068	mg/L		02/02/24 13:57	02/05/24 16:36	1
Hexachloroethane	ND		0.050	0.0058	mg/L		02/02/24 13:57	02/05/24 16:36	1
Nitrobenzene	ND		0.050	0.0028	mg/L		02/02/24 13:57	02/05/24 16:36	1
Pentachlorophenol	ND		0.10	0.022	mg/L		02/02/24 13:57	02/05/24 16:36	1
Pyridine	ND		0.25	0.0040	mg/L		02/02/24 13:57	02/05/24 16:36	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		41 - 120	02/02/24 13:57	02/05/24 16:36	1
2-Fluorobiphenyl (Surr)	99		48 - 120	02/02/24 13:57	02/05/24 16:36	1
2-Fluorophenol (Surr)	56		35 - 120	02/02/24 13:57	02/05/24 16:36	1
Nitrobenzene-d5 (Surr)	103		46 - 120	02/02/24 13:57	02/05/24 16:36	1
Phenol-d5 (Surr)	42		22 - 120	02/02/24 13:57	02/05/24 16:36	1
p-Terphenyl-d14 (Surr)	114		60 - 148	02/02/24 13:57	02/05/24 16:36	1

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.000073	mg/L		02/02/24 13:49	02/05/24 13:54	1
Endrin	ND		0.00050	0.000035	mg/L		02/02/24 13:49	02/05/24 13:54	1
gamma-BHC (Lindane)	ND		0.00050	0.000015	mg/L		02/02/24 13:49	02/05/24 13:54	1
Heptachlor	ND		0.00050	0.000021	mg/L		02/02/24 13:49	02/05/24 13:54	1
Heptachlor epoxide	ND		0.00050	0.000013	mg/L		02/02/24 13:49	02/05/24 13:54	1
Methoxychlor	ND		0.00050	0.000035	mg/L		02/02/24 13:49	02/05/24 13:54	1
Toxaphene	ND		0.0050	0.00030	mg/L		02/02/24 13:49	02/05/24 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		20 - 120	02/02/24 13:49	02/05/24 13:54	1
DCB Decachlorobiphenyl (Surr)	90		20 - 120	02/02/24 13:49	02/05/24 13:54	1
Tetrachloro-m-xylene (Surr)	58		44 - 120	02/02/24 13:49	02/05/24 13:54	1
Tetrachloro-m-xylene (Surr)	55		44 - 120	02/02/24 13:49	02/05/24 13:54	1

Method: SW846 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0050	0.0010	mg/L		02/02/24 09:11	02/05/24 14:46	1
Silvex (2,4,5-TP)	ND		0.0050	0.00090	mg/L		02/02/24 09:11	02/05/24 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	53		21 - 143	02/02/24 09:11	02/05/24 14:46	1
2,4-Dichlorophenylacetic acid (Surr)	51		21 - 143	02/02/24 09:11	02/05/24 14:46	1

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:27	1
Barium	0.50	J	1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:27	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:27	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:27	1
Lead	0.011	J B	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:27	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:27	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:27	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 16:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.024	0.0055	mg/Kg	☼	02/01/24 12:04	02/01/24 14:24	1

Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.3	9.3	mg/Kg		02/01/24 11:40	02/02/24 13:28	1
Sulfide, Reactive (SW846 9034)	74.3		9.3	9.3	mg/Kg		02/01/24 11:40	02/02/24 16:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			01/31/24 10:41	1
pH (SW846 9045D)	8.4	HF	0.1	0.1	SU			02/02/24 13:43	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			02/02/24 13:43	1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 75.4

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 14:20	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 14:20	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 14:20	10
Benzene	ND		0.010	0.0041	mg/L			02/05/24 14:20	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 14:20	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 14:20	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 14:20	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 14:20	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 14:20	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 14:20	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120					02/05/24 14:20	10
4-Bromofluorobenzene (Surr)	96		73 - 120					02/05/24 14:20	10
Dibromofluoromethane (Surr)	88		75 - 123					02/05/24 14:20	10
Toluene-d8 (Surr)	100		80 - 120					02/05/24 14:20	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.32	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,1,1,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,1,2-Trichloroethane	ND		4.5	0.58	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2,4-Trimethylbenzene	ND		4.5	0.86	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.2	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2-Dibromoethane	ND		4.5	0.57	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2-Dichloroethane	ND		4.5	0.22	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,2-Dichloropropane	ND		4.5	2.2	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,3,5-Trimethylbenzene	ND		4.5	0.29	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
2-Butanone (MEK)	10	J	22	1.6	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1
2-Hexanone	ND		22	2.2	ug/Kg	✱	01/31/24 16:00	01/31/24 22:02	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 75.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		22	1.5	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Acetone	52		22	3.8	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Benzene	1.5 J		4.5	0.22	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Bromoform	ND		4.5	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Bromomethane	ND		4.5	0.40	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Carbon disulfide	ND		4.5	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Carbon tetrachloride	ND		4.5	0.43	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Chlorobenzene	ND		4.5	0.59	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
cis-1,2-Dichloroethene	ND		4.5	0.57	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
cis-1,3-Dichloropropene	ND		4.5	0.64	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Dibromochloromethane	ND		4.5	0.57	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Isopropylbenzene	ND		4.5	0.67	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
m,p-Xylene	ND		8.9	0.75	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Methylcyclohexane	ND		4.5	0.68	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
o-Xylene	0.86 J		4.5	0.58	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Styrene	ND		4.5	0.22	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Tetrachloroethene	ND		4.5	0.60	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Toluene	0.37 J		4.5	0.34	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
trans-1,2-Dichloroethene	ND		4.5	0.46	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Trichloroethene	ND		4.5	0.98	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Trichlorofluoromethane	ND		4.5	0.42	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1
Xylenes, Total	0.86 J		8.9	0.75	ug/Kg	☼	01/31/24 16:00	01/31/24 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	01/31/24 16:00	01/31/24 22:02	1
4-Bromofluorobenzene (Surr)	106		72 - 126	01/31/24 16:00	01/31/24 22:02	1
Dibromofluoromethane (Surr)	108		60 - 140	01/31/24 16:00	01/31/24 22:02	1
Toluene-d8 (Surr)	96		71 - 125	01/31/24 16:00	01/31/24 22:02	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	73	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
2,4,5-Trichlorophenol	ND		220	61	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
2,4,6-Trichlorophenol	ND		220	45	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
2,4-Dichlorophenol	ND		220	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
2,4-Dimethylphenol	ND		220	54	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
2,4-Dinitrophenol	ND		2200	1000	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
2,4-Dinitrotoluene	ND		220	46	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 75.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
2-Chloronaphthalene	ND		220	37	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
2-Chlorophenol	ND		440	41	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
2-Methylnaphthalene	56	J	220	45	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
2-Methylphenol	ND		220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
2-Nitroaniline	ND		440	33	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
2-Nitrophenol	ND		220	63	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
3,3'-Dichlorobenzidine	ND		440	260	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
3-Nitroaniline	ND		440	62	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4,6-Dinitro-2-methylphenol	ND		440	220	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Bromophenyl phenyl ether	ND		220	32	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Chloro-3-methylphenol	ND		220	55	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Chloroaniline	ND		220	55	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Chlorophenyl phenyl ether	ND		220	28	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Methylphenol	28	J	440	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Nitroaniline	ND		440	120	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
4-Nitrophenol	ND		440	160	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Acenaphthene	ND		220	33	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Acenaphthylene	42	J	220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Acetophenone	ND		220	30	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Anthracene	ND		220	55	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Atrazine	ND		220	78	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Benzaldehyde	ND		220	180	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Benzo[a]anthracene	87	J	220	22	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Benzo[a]pyrene	76	J	220	33	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Benzo[b]fluoranthene	100	J	220	36	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Benzo[g,h,i]perylene	77	J	220	24	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Benzo[k]fluoranthene	47	J	220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Biphenyl	ND		220	33	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
bis (2-chloroisopropyl) ether	ND		220	45	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Bis(2-chloroethoxy)methane	ND		220	48	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Bis(2-chloroethyl)ether	ND		220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Bis(2-ethylhexyl) phthalate	ND		220	77	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Butyl benzyl phthalate	ND		220	37	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Caprolactam	ND		220	67	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Carbazole	ND		220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Chrysene	ND		220	50	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Dibenz(a,h)anthracene	ND		220	40	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Dibenzofuran	32	J	220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Diethyl phthalate	ND		220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Dimethyl phthalate	ND		220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Di-n-butyl phthalate	ND		220	38	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Fluoranthene	150	J	220	24	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Fluorene	45	J	220	26	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Hexachlorobenzene	ND		220	30	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Hexachlorobutadiene	ND		220	33	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1
Hexachloroethane	ND		220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 19:50	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 75.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	64	J	220	28	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Isophorone	ND		220	48	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Naphthalene	410		220	29	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Nitrobenzene	ND		220	25	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
N-Nitrosodi-n-propylamine	ND		220	38	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Pentachlorophenol	ND		440	220	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Phenanthrene	150	J	220	33	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Phenol	ND		220	34	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1
Pyrene	170	J	220	26	ug/Kg	☼	01/31/24 16:11	02/01/24 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		54 - 120	01/31/24 16:11	02/01/24 19:50	1
2-Fluorobiphenyl (Surr)	105		60 - 120	01/31/24 16:11	02/01/24 19:50	1
2-Fluorophenol (Surr)	89		52 - 120	01/31/24 16:11	02/01/24 19:50	1
Nitrobenzene-d5 (Surr)	101		53 - 120	01/31/24 16:11	02/01/24 19:50	1
Phenol-d5 (Surr)	96		54 - 120	01/31/24 16:11	02/01/24 19:50	1
p-Terphenyl-d14 (Surr)	118		79 - 130	01/31/24 16:11	02/01/24 19:50	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0023	mg/L		02/02/24 13:57	02/05/24 17:00	1
2,4,5-Trichlorophenol	ND		0.025	0.0024	mg/L		02/02/24 13:57	02/05/24 17:00	1
2,4,6-Trichlorophenol	ND		0.025	0.0030	mg/L		02/02/24 13:57	02/05/24 17:00	1
2,4-Dinitrotoluene	ND		0.025	0.0021	mg/L		02/02/24 13:57	02/05/24 17:00	1
2-Methylphenol	ND		0.025	0.0020	mg/L		02/02/24 13:57	02/05/24 17:00	1
3-Methylphenol	ND		0.050	0.0020	mg/L		02/02/24 13:57	02/05/24 17:00	1
4-Methylphenol	ND		0.050	0.0018	mg/L		02/02/24 13:57	02/05/24 17:00	1
Hexachlorobenzene	ND		0.025	0.0025	mg/L		02/02/24 13:57	02/05/24 17:00	1
Hexachlorobutadiene	ND		0.025	0.0034	mg/L		02/02/24 13:57	02/05/24 17:00	1
Hexachloroethane	ND		0.025	0.0029	mg/L		02/02/24 13:57	02/05/24 17:00	1
Nitrobenzene	ND		0.025	0.0014	mg/L		02/02/24 13:57	02/05/24 17:00	1
Pentachlorophenol	ND		0.050	0.011	mg/L		02/02/24 13:57	02/05/24 17:00	1
Pyridine	ND		0.13	0.0020	mg/L		02/02/24 13:57	02/05/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		41 - 120	02/02/24 13:57	02/05/24 17:00	1
2-Fluorobiphenyl (Surr)	83		48 - 120	02/02/24 13:57	02/05/24 17:00	1
2-Fluorophenol (Surr)	47		35 - 120	02/02/24 13:57	02/05/24 17:00	1
Nitrobenzene-d5 (Surr)	86		46 - 120	02/02/24 13:57	02/05/24 17:00	1
Phenol-d5 (Surr)	34		22 - 120	02/02/24 13:57	02/05/24 17:00	1
p-Terphenyl-d14 (Surr)	100		60 - 148	02/02/24 13:57	02/05/24 17:00	1

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0025	0.000036	mg/L		02/02/24 13:49	02/05/24 14:14	1
Endrin	ND		0.00025	0.000017	mg/L		02/02/24 13:49	02/05/24 14:14	1
gamma-BHC (Lindane)	ND		0.00025	0.0000075	mg/L		02/02/24 13:49	02/05/24 14:14	1
Heptachlor	ND		0.00025	0.000011	mg/L		02/02/24 13:49	02/05/24 14:14	1
Heptachlor epoxide	ND		0.00025	0.0000066	mg/L		02/02/24 13:49	02/05/24 14:14	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 75.4

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.00025	0.000018	mg/L		02/02/24 13:49	02/05/24 14:14	1
Toxaphene	ND		0.0025	0.00015	mg/L		02/02/24 13:49	02/05/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	57		20 - 120				02/02/24 13:49	02/05/24 14:14	1
DCB Decachlorobiphenyl (Surr)	76		20 - 120				02/02/24 13:49	02/05/24 14:14	1
Tetrachloro-m-xylene (Surr)	66		44 - 120				02/02/24 13:49	02/05/24 14:14	1
Tetrachloro-m-xylene (Surr)	83		44 - 120				02/02/24 13:49	02/05/24 14:14	1

Method: SW846 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0025	0.00050	mg/L		02/02/24 09:11	02/05/24 15:04	1
Silvex (2,4,5-TP)	ND		0.0025	0.00045	mg/L		02/02/24 09:11	02/05/24 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	31		21 - 143				02/02/24 09:11	02/05/24 15:04	1
2,4-Dichlorophenylacetic acid (Surr)	25		21 - 143				02/02/24 09:11	02/05/24 15:04	1

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0064	J	0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:41	1
Barium	0.30	J	1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:41	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:41	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:41	1
Lead	0.0052	J B	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:41	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:41	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:41	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 16:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.027	0.0063	mg/Kg	☆	02/01/24 12:04	02/01/24 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.4	9.4	mg/Kg		02/01/24 11:40	02/02/24 13:31	1
Sulfide, Reactive (SW846 9034)	ND		9.4	9.4	mg/Kg		02/01/24 11:40	02/02/24 16:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			01/31/24 11:06	1
pH (SW846 9045D)	8.2	HF	0.1	0.1	SU			02/02/24 13:43	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			02/02/24 13:43	1

Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 14:42	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 14:42	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 14:42	10
Benzene	0.76		0.010	0.0041	mg/L			02/05/24 14:42	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 14:42	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 14:42	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 14:42	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 14:42	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 14:42	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 14:42	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					02/05/24 14:42	10
4-Bromofluorobenzene (Surr)	98		73 - 120					02/05/24 14:42	10
Dibromofluoromethane (Surr)	94		75 - 123					02/05/24 14:42	10
Toluene-d8 (Surr)	105		80 - 120					02/05/24 14:42	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		310	85	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,1,2,2-Tetrachloroethane	ND		310	50	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		310	150	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,1,2-Trichloroethane	ND		310	65	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,1-Dichloroethane	ND		310	95	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,1-Dichloroethene	ND		310	110	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2,4-Trichlorobenzene	ND		310	120	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2,4-Trimethylbenzene	ND		310	86	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2-Dibromo-3-Chloropropane	ND		310	150	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2-Dibromoethane	ND		310	54	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2-Dichlorobenzene	ND		310	78	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2-Dichloroethane	ND		310	130	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,2-Dichloropropane	ND		310	50	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,3,5-Trimethylbenzene	ND		310	93	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,3-Dichlorobenzene	ND		310	82	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
1,4-Dichlorobenzene	ND		310	43	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
2-Butanone (MEK)	ND		1500	910	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
2-Hexanone	ND		1500	630	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
4-Methyl-2-pentanone (MIBK)	ND		1500	98	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Acetone	ND		1500	1300	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Benzene	41000	E	310	58	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Bromodichloromethane	ND		310	61	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Bromoform	ND		310	150	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Bromomethane	ND		310	68	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Carbon disulfide	ND		310	140	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Carbon tetrachloride	ND		310	78	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Chlorobenzene	ND		310	41	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Chloroethane	ND		310	64	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Chloroform	ND		310	210	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
Chloromethane	ND		310	73	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4
cis-1,2-Dichloroethene	ND		310	85	ug/Kg	☆	02/02/24 09:13	02/02/24 14:19	4

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		310	73	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Cyclohexane	ND		310	68	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Dibromochloromethane	ND		310	150	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Dichlorodifluoromethane	ND		310	130	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Ethylbenzene	220	J	310	89	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Isopropylbenzene	ND		310	46	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
m,p-Xylene	620		610	170	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Methyl acetate	ND		1500	150	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Methyl tert-butyl ether	ND		310	120	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Methylcyclohexane	ND		310	140	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Methylene Chloride	ND		310	61	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
o-Xylene	230	J	310	40	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Styrene	ND		310	74	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Tetrachloroethene	ND		310	41	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Toluene	210	J	310	82	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
trans-1,2-Dichloroethene	ND		310	73	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
trans-1,3-Dichloropropene	ND		310	30	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Trichloroethene	ND		310	85	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Trichlorofluoromethane	ND		310	140	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Vinyl chloride	ND		310	100	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4
Xylenes, Total	850		610	170	ug/Kg	☼	02/02/24 09:13	02/02/24 14:19	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		53 - 146	02/02/24 09:13	02/02/24 14:19	4
4-Bromofluorobenzene (Surr)	93		49 - 148	02/02/24 09:13	02/02/24 14:19	4
Dibromofluoromethane (Surr)	88		60 - 140	02/02/24 09:13	02/02/24 14:19	4
Toluene-d8 (Surr)	96		50 - 149	02/02/24 09:13	02/02/24 14:19	4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		610	170	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,1,2,2-Tetrachloroethane	ND		610	100	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		610	310	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,1,2-Trichloroethane	ND		610	130	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,1-Dichloroethane	ND		610	190	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,1-Dichloroethene	ND		610	210	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2,4-Trichlorobenzene	ND		610	230	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2,4-Trimethylbenzene	ND		610	170	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2-Dibromo-3-Chloropropane	ND		610	310	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2-Dibromoethane	ND		610	110	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2-Dichlorobenzene	ND		610	160	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2-Dichloroethane	ND		610	250	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,2-Dichloropropane	ND		610	100	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,3,5-Trimethylbenzene	ND		610	190	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,3-Dichlorobenzene	ND		610	160	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
1,4-Dichlorobenzene	ND		610	86	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
2-Butanone (MEK)	ND		3100	1800	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
2-Hexanone	ND		3100	1300	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
4-Methyl-2-pentanone (MIBK)	ND		3100	200	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Acetone	ND		3100	2500	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28000		610	120	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Bromodichloromethane	ND		610	120	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Bromoform	ND		610	310	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Bromomethane	ND		610	140	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Carbon disulfide	ND		610	280	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Carbon tetrachloride	ND		610	160	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Chlorobenzene	ND		610	81	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Chloroethane	ND		610	130	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Chloroform	ND		610	420	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Chloromethane	ND		610	150	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
cis-1,2-Dichloroethene	ND		610	170	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
cis-1,3-Dichloropropene	ND		610	150	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Cyclohexane	ND		610	140	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Dibromochloromethane	ND		610	300	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Dichlorodifluoromethane	ND		610	270	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Ethylbenzene	210 J		610	180	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Isopropylbenzene	ND		610	92	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
m,p-Xylene	600 J		1200	340	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Methyl acetate	ND		3100	290	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Methyl tert-butyl ether	ND		610	230	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Methylcyclohexane	ND		610	290	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Methylene Chloride	ND		610	120	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
o-Xylene	220 J		610	80	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Styrene	ND		610	150	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Tetrachloroethene	ND		610	83	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Toluene	ND		610	160	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
trans-1,2-Dichloroethene	ND		610	150	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
trans-1,3-Dichloropropene	ND		610	60	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Trichloroethene	ND		610	170	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Trichlorofluoromethane	ND		610	290	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Vinyl chloride	ND		610	210	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8
Xylenes, Total	820 J		1200	340	ug/Kg	☼	02/02/24 09:13	02/05/24 12:09	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		53 - 146	02/02/24 09:13	02/05/24 12:09	8
4-Bromofluorobenzene (Surr)	97		49 - 148	02/02/24 09:13	02/05/24 12:09	8
Dibromofluoromethane (Surr)	91		60 - 140	02/02/24 09:13	02/05/24 12:09	8
Toluene-d8 (Surr)	99		50 - 149	02/02/24 09:13	02/05/24 12:09	8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	78	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,4,5-Trichlorophenol	ND		240	65	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,4,6-Trichlorophenol	ND		240	48	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,4-Dichlorophenol	ND		240	26	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,4-Dimethylphenol	86 J		240	58	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,4-Dinitrophenol	ND		2400	1100	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,4-Dinitrotoluene	ND		240	50	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2,6-Dinitrotoluene	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2-Chloronaphthalene	ND		240	40	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		470	44	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2-Methylnaphthalene	ND		240	48	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2-Methylphenol	59	J	240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2-Nitroaniline	ND		470	35	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
2-Nitrophenol	ND		240	68	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
3,3'-Dichlorobenzidine	ND		470	280	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
3-Nitroaniline	ND		470	67	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4,6-Dinitro-2-methylphenol	ND		470	240	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Bromophenyl phenyl ether	ND		240	34	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Chloro-3-methylphenol	ND		240	60	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Chloroaniline	ND		240	60	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Chlorophenyl phenyl ether	ND		240	30	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Methylphenol	ND		470	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Nitroaniline	ND		470	130	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
4-Nitrophenol	ND		470	170	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Acenaphthene	ND		240	35	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Acenaphthylene	ND		240	31	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Acetophenone	ND		240	33	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Anthracene	ND		240	60	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Atrazine	ND		240	84	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Benzaldehyde	ND		240	190	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Benzo[a]anthracene	ND		240	24	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Benzo[a]pyrene	ND		240	35	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Benzo[b]fluoranthene	ND		240	38	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Benzo[g,h,i]perylene	ND		240	26	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Benzo[k]fluoranthene	ND		240	31	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Biphenyl	ND		240	35	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
bis (2-chloroisopropyl) ether	ND		240	48	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Bis(2-chloroethoxy)methane	ND		240	51	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Bis(2-chloroethyl)ether	ND		240	31	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Bis(2-ethylhexyl) phthalate	ND		240	82	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Butyl benzyl phthalate	ND		240	40	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Caprolactam	ND		240	72	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Carbazole	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Chrysene	ND		240	54	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Dibenz(a,h)anthracene	ND		240	43	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Dibenzofuran	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Diethyl phthalate	ND		240	31	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Dimethyl phthalate	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Di-n-butyl phthalate	ND		240	41	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Di-n-octyl phthalate	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Fluoranthene	ND		240	26	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Fluorene	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Hexachlorobenzene	ND		240	33	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Hexachlorobutadiene	ND		240	35	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Hexachlorocyclopentadiene	ND		240	33	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Hexachloroethane	ND		240	31	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Indeno[1,2,3-cd]pyrene	ND		240	30	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Isophorone	ND		240	51	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	76	J	240	31	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Nitrobenzene	ND		240	27	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
N-Nitrosodi-n-propylamine	ND		240	41	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
N-Nitrosodiphenylamine	ND		240	200	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Pentachlorophenol	ND		470	240	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Phenanthrene	ND		240	35	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Phenol	ND		240	37	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1
Pyrene	ND		240	28	ug/Kg	☼	01/31/24 16:11	02/01/24 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		54 - 120	01/31/24 16:11	02/01/24 20:14	1
2-Fluorobiphenyl (Surr)	108		60 - 120	01/31/24 16:11	02/01/24 20:14	1
2-Fluorophenol (Surr)	91		52 - 120	01/31/24 16:11	02/01/24 20:14	1
Nitrobenzene-d5 (Surr)	104		53 - 120	01/31/24 16:11	02/01/24 20:14	1
Phenol-d5 (Surr)	97		54 - 120	01/31/24 16:11	02/01/24 20:14	1
p-Terphenyl-d14 (Surr)	131	S1+	79 - 130	01/31/24 16:11	02/01/24 20:14	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/02/24 13:57	02/05/24 17:24	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/02/24 13:57	02/05/24 17:24	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/02/24 13:57	02/05/24 17:24	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/02/24 13:57	02/05/24 17:24	1
2-Methylphenol	0.0069	J	0.020	0.0016	mg/L		02/02/24 13:57	02/05/24 17:24	1
3-Methylphenol	0.0031	J	0.040	0.0016	mg/L		02/02/24 13:57	02/05/24 17:24	1
4-Methylphenol	0.0031	J	0.040	0.0014	mg/L		02/02/24 13:57	02/05/24 17:24	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/02/24 13:57	02/05/24 17:24	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/02/24 13:57	02/05/24 17:24	1
Hexachloroethane	ND		0.020	0.0023	mg/L		02/02/24 13:57	02/05/24 17:24	1
Nitrobenzene	ND		0.020	0.0011	mg/L		02/02/24 13:57	02/05/24 17:24	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/02/24 13:57	02/05/24 17:24	1
Pyridine	ND		0.10	0.0016	mg/L		02/02/24 13:57	02/05/24 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		41 - 120	02/02/24 13:57	02/05/24 17:24	1
2-Fluorobiphenyl (Surr)	89		48 - 120	02/02/24 13:57	02/05/24 17:24	1
2-Fluorophenol (Surr)	51		35 - 120	02/02/24 13:57	02/05/24 17:24	1
Nitrobenzene-d5 (Surr)	91		46 - 120	02/02/24 13:57	02/05/24 17:24	1
Phenol-d5 (Surr)	39		22 - 120	02/02/24 13:57	02/05/24 17:24	1
p-Terphenyl-d14 (Surr)	95		60 - 148	02/02/24 13:57	02/05/24 17:24	1

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		02/02/24 13:49	02/05/24 14:34	1
Endrin	ND		0.00020	0.000014	mg/L		02/02/24 13:49	02/05/24 14:34	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		02/02/24 13:49	02/05/24 14:34	1
Heptachlor	ND		0.00020	0.0000085	mg/L		02/02/24 13:49	02/05/24 14:34	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		02/02/24 13:49	02/05/24 14:34	1
Methoxychlor	ND		0.00020	0.000014	mg/L		02/02/24 13:49	02/05/24 14:34	1
Toxaphene	ND		0.0020	0.00012	mg/L		02/02/24 13:49	02/05/24 14:34	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		20 - 120	02/02/24 13:49	02/05/24 14:34	1
DCB Decachlorobiphenyl (Surr)	67		20 - 120	02/02/24 13:49	02/05/24 14:34	1
Tetrachloro-m-xylene (Surr)	61		44 - 120	02/02/24 13:49	02/05/24 14:34	1
Tetrachloro-m-xylene (Surr)	66		44 - 120	02/02/24 13:49	02/05/24 14:34	1

Method: SW846 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		02/02/24 09:11	02/05/24 15:23	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		02/02/24 09:11	02/05/24 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	18	S1-	21 - 143	02/02/24 09:11	02/05/24 15:23	1
2,4-Dichlorophenylacetic acid (Surr)	17	S1-	21 - 143	02/02/24 09:11	02/05/24 15:23	1

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.041		0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:44	1
Barium	0.42	J	1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:44	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:44	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:44	1
Lead	0.018	J B	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:44	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:44	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:44	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 16:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.029	0.0067	mg/Kg	☆	02/01/24 12:04	02/01/24 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.1	9.1	mg/Kg		02/01/24 11:40	02/02/24 13:32	1
Sulfide, Reactive (SW846 9034)	147		9.1	9.1	mg/Kg		02/01/24 11:40	02/02/24 16:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			02/01/24 09:04	1
pH (SW846 9045D)	8.3	HF	0.1	0.1	SU			02/02/24 13:43	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			02/02/24 13:43	1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 15:04	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 15:04	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 15:04	10
Benzene	ND		0.010	0.0041	mg/L			02/05/24 15:04	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 15:04	10

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8260C - TCLP Volatiles - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 15:04	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 15:04	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 15:04	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 15:04	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 15:04	10

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120			02/05/24 15:04	10
4-Bromofluorobenzene (Surr)	93		73 - 120			02/05/24 15:04	10
Dibromofluoromethane (Surr)	95		75 - 123			02/05/24 15:04	10
Toluene-d8 (Surr)	101		80 - 120			02/05/24 15:04	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		48	13	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,1,2,2-Tetrachloroethane	ND		48	7.8	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48	24	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,1,2-Trichloroethane	ND		48	10	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,1-Dichloroethane	ND		48	15	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,1-Dichloroethene	ND		48	17	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2,4-Trichlorobenzene	ND		48	18	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2,4-Trimethylbenzene	160		48	13	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2-Dibromo-3-Chloropropane	ND		48	24	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2-Dibromoethane	ND		48	8.4	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2-Dichlorobenzene	ND		48	12	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2-Dichloroethane	ND		48	20	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,2-Dichloropropane	ND		48	7.8	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,3,5-Trimethylbenzene	110		48	14	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,3-Dichlorobenzene	ND		48	13	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
1,4-Dichlorobenzene	ND		48	6.7	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
2-Butanone (MEK)	ND		240	140	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
2-Hexanone	ND		240	98	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		240	15	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Acetone	ND		240	200	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Benzene	730		48	9.1	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Bromodichloromethane	ND		48	9.6	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Bromoform	ND		48	24	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Bromomethane	ND		48	11	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Carbon disulfide	ND		48	22	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Carbon tetrachloride	ND		48	12	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Chlorobenzene	ND		48	6.3	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Chloroethane	ND		48	10	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Chloroform	ND		48	33	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Chloromethane	ND		48	11	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
cis-1,2-Dichloroethene	ND		48	13	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
cis-1,3-Dichloropropene	ND		48	11	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Cyclohexane	ND		48	11	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Dibromochloromethane	ND		48	23	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Dichlorodifluoromethane	ND		48	21	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1
Ethylbenzene	54		48	14	ug/Kg	✱	02/02/24 09:13	02/02/24 14:42	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		48	7.2	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
m,p-Xylene	500		96	27	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Methyl acetate	ND		240	23	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Methyl tert-butyl ether	ND		48	18	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Methylcyclohexane	ND		48	22	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Methylene Chloride	ND		48	9.5	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
o-Xylene	100		48	6.2	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Styrene	72		48	12	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Tetrachloroethene	ND		48	6.4	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Toluene	470		48	13	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
trans-1,2-Dichloroethene	ND		48	11	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
trans-1,3-Dichloropropene	ND		48	4.7	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Trichloroethene	ND		48	13	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Trichlorofluoromethane	ND		48	22	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Vinyl chloride	ND		48	16	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1
Xylenes, Total	600		96	27	ug/Kg	☼	02/02/24 09:13	02/02/24 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		53 - 146	02/02/24 09:13	02/02/24 14:42	1
4-Bromofluorobenzene (Surr)	94		49 - 148	02/02/24 09:13	02/02/24 14:42	1
Dibromofluoromethane (Surr)	89		60 - 140	02/02/24 09:13	02/02/24 14:42	1
Toluene-d8 (Surr)	99		50 - 149	02/02/24 09:13	02/02/24 14:42	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	66	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2-Chlorophenol	ND		400	37	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2-Methylnaphthalene	240		210	41	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2-Methylphenol	35 J		210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Methylphenol	66 J		400	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Acenaphthene	59 J		210	30	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	140	J	210	27	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Acetophenone	ND		210	28	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Anthracene	140	J	210	51	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Atrazine	ND		210	71	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Benzaldehyde	ND		210	160	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Benzo[a]anthracene	270		210	21	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Benzo[a]pyrene	290		210	30	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Benzo[b]fluoranthene	360		210	33	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Benzo[g,h,i]perylene	270		210	22	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Benzo[k]fluoranthene	160	J	210	27	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Biphenyl	41	J	210	30	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Bis(2-chloroethoxy)methane	ND		210	43	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Butyl benzyl phthalate	ND	F1	210	34	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Caprolactam	ND		210	62	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Carbazole	56	J	210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Chrysene	260		210	46	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Dibenzofuran	110	J	210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Fluoranthene	470		210	22	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Fluorene	150	J	210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Hexachloroethane	ND		210	27	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Indeno[1,2,3-cd]pyrene	200	J	210	25	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Isophorone	ND		210	43	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Naphthalene	8600	E	210	27	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Nitrobenzene	ND		210	23	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Phenanthrene	490		210	30	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Phenol	ND		210	31	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1
Pyrene	550		210	24	ug/Kg	☼	01/31/24 16:11	02/01/24 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120	01/31/24 16:11	02/01/24 19:02	1
2-Fluorobiphenyl (Surr)	100		60 - 120	01/31/24 16:11	02/01/24 19:02	1
2-Fluorophenol (Surr)	81		52 - 120	01/31/24 16:11	02/01/24 19:02	1
Nitrobenzene-d5 (Surr)	93		53 - 120	01/31/24 16:11	02/01/24 19:02	1
Phenol-d5 (Surr)	87		54 - 120	01/31/24 16:11	02/01/24 19:02	1
p-Terphenyl-d14 (Surr)	108		79 - 130	01/31/24 16:11	02/01/24 19:02	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	F1	1200	660	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,4,5-Trichlorophenol	ND		2100	560	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,4,6-Trichlorophenol	ND		2100	410	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,4-Dichlorophenol	ND		2100	220	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,4-Dimethylphenol	ND		2100	500	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,4-Dinitrophenol	ND		20000	9500	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,4-Dinitrotoluene	ND		2100	420	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2,6-Dinitrotoluene	ND		2100	240	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2-Chloronaphthalene	ND		2100	340	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2-Chlorophenol	ND		4000	370	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2-Methylnaphthalene	ND		2100	410	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2-Methylphenol	ND		2100	240	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2-Nitroaniline	ND		4000	300	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
2-Nitrophenol	ND		2100	580	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
3,3'-Dichlorobenzidine	ND		4000	2400	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
3-Nitroaniline	ND		4000	570	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4,6-Dinitro-2-methylphenol	ND		4000	2100	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Bromophenyl phenyl ether	ND		2100	290	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Chloro-3-methylphenol	ND		2100	510	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Chloroaniline	ND		2100	510	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Chlorophenyl phenyl ether	ND		2100	250	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Methylphenol	ND		4000	240	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Nitroaniline	ND		4000	1100	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
4-Nitrophenol	ND		4000	1400	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Acenaphthene	ND		2100	300	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Acenaphthylene	ND		2100	270	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Acetophenone	ND		2100	280	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Anthracene	ND		2100	510	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Atrazine	ND		2100	710	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Benzaldehyde	ND		2100	1600	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Benzo[a]anthracene	280	J	2100	210	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Benzo[a]pyrene	300	J	2100	300	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Benzo[b]fluoranthene	520	J	2100	330	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Benzo[g,h,i]perylene	230	J	2100	220	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Benzo[k]fluoranthene	ND		2100	270	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Biphenyl	ND		2100	300	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
bis (2-chloroisopropyl) ether	ND		2100	410	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Bis(2-chloroethoxy)methane	ND		2100	430	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Bis(2-chloroethyl)ether	ND		2100	270	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Bis(2-ethylhexyl) phthalate	ND		2100	700	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Butyl benzyl phthalate	ND		2100	340	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Caprolactam	ND		2100	620	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Carbazole	ND		2100	240	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Chrysene	ND		2100	460	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Dibenz(a,h)anthracene	ND		2100	360	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Dibenzofuran	ND		2100	240	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Diethyl phthalate	ND		2100	270	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Dimethyl phthalate	ND		2100	240	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10
Di-n-butyl phthalate	ND		2100	350	ug/Kg	✱	01/31/24 16:11	02/02/24 13:29	10

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		2100	240	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Fluoranthene	570	J	2100	220	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Fluorene	ND		2100	240	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Hexachlorobenzene	ND		2100	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Hexachlorobutadiene	ND		2100	300	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Hexachlorocyclopentadiene	ND		2100	280	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Hexachloroethane	ND		2100	270	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Indeno[1,2,3-cd]pyrene	ND		2100	250	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Isophorone	ND		2100	430	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Naphthalene	8200		2100	270	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Nitrobenzene	ND		2100	230	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
N-Nitrosodi-n-propylamine	ND		2100	350	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Pentachlorophenol	ND		4000	2100	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Phenanthrene	490	J	2100	300	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Phenol	ND		2100	310	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10
Pyrene	490	J	2100	240	ug/Kg	☼	01/31/24 16:11	02/02/24 13:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		54 - 120	01/31/24 16:11	02/02/24 13:29	10
2-Fluorobiphenyl (Surr)	78		60 - 120	01/31/24 16:11	02/02/24 13:29	10
2-Fluorophenol (Surr)	77		52 - 120	01/31/24 16:11	02/02/24 13:29	10
Nitrobenzene-d5 (Surr)	73		53 - 120	01/31/24 16:11	02/02/24 13:29	10
Phenol-d5 (Surr)	70		54 - 120	01/31/24 16:11	02/02/24 13:29	10
p-Terphenyl-d14 (Surr)	84		79 - 130	01/31/24 16:11	02/02/24 13:29	10

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0023	mg/L		02/02/24 13:57	02/05/24 17:49	1
2,4,5-Trichlorophenol	ND		0.025	0.0024	mg/L		02/02/24 13:57	02/05/24 17:49	1
2,4,6-Trichlorophenol	ND		0.025	0.0030	mg/L		02/02/24 13:57	02/05/24 17:49	1
2,4-Dinitrotoluene	ND		0.025	0.0021	mg/L		02/02/24 13:57	02/05/24 17:49	1
2-Methylphenol	ND		0.025	0.0020	mg/L		02/02/24 13:57	02/05/24 17:49	1
3-Methylphenol	ND		0.050	0.0020	mg/L		02/02/24 13:57	02/05/24 17:49	1
4-Methylphenol	ND		0.050	0.0018	mg/L		02/02/24 13:57	02/05/24 17:49	1
Hexachlorobenzene	ND		0.025	0.0025	mg/L		02/02/24 13:57	02/05/24 17:49	1
Hexachlorobutadiene	ND		0.025	0.0034	mg/L		02/02/24 13:57	02/05/24 17:49	1
Hexachloroethane	ND		0.025	0.0029	mg/L		02/02/24 13:57	02/05/24 17:49	1
Nitrobenzene	ND		0.025	0.0014	mg/L		02/02/24 13:57	02/05/24 17:49	1
Pentachlorophenol	ND		0.050	0.011	mg/L		02/02/24 13:57	02/05/24 17:49	1
Pyridine	ND		0.13	0.0020	mg/L		02/02/24 13:57	02/05/24 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		41 - 120	02/02/24 13:57	02/05/24 17:49	1
2-Fluorobiphenyl (Surr)	97		48 - 120	02/02/24 13:57	02/05/24 17:49	1
2-Fluorophenol (Surr)	57		35 - 120	02/02/24 13:57	02/05/24 17:49	1
Nitrobenzene-d5 (Surr)	100		46 - 120	02/02/24 13:57	02/05/24 17:49	1
Phenol-d5 (Surr)	40		22 - 120	02/02/24 13:57	02/05/24 17:49	1
p-Terphenyl-d14 (Surr)	104		60 - 148	02/02/24 13:57	02/05/24 17:49	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0025	0.000036	mg/L		02/02/24 13:49	02/05/24 14:53	1
Endrin	ND		0.00025	0.000017	mg/L		02/02/24 13:49	02/05/24 14:53	1
gamma-BHC (Lindane)	ND		0.00025	0.0000075	mg/L		02/02/24 13:49	02/05/24 14:53	1
Heptachlor	ND		0.00025	0.000011	mg/L		02/02/24 13:49	02/05/24 14:53	1
Heptachlor epoxide	ND		0.00025	0.0000066	mg/L		02/02/24 13:49	02/05/24 14:53	1
Methoxychlor	ND		0.00025	0.000018	mg/L		02/02/24 13:49	02/05/24 14:53	1
Toxaphene	ND		0.0025	0.00015	mg/L		02/02/24 13:49	02/05/24 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	64		20 - 120	02/02/24 13:49	02/05/24 14:53	1
DCB Decachlorobiphenyl (Surr)	81		20 - 120	02/02/24 13:49	02/05/24 14:53	1
Tetrachloro-m-xylene (Surr)	61		44 - 120	02/02/24 13:49	02/05/24 14:53	1
Tetrachloro-m-xylene (Surr)	69		44 - 120	02/02/24 13:49	02/05/24 14:53	1

Method: SW846 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0025	0.00050	mg/L		02/02/24 09:11	02/05/24 15:42	1
Silvex (2,4,5-TP)	ND		0.0025	0.00045	mg/L		02/02/24 09:11	02/05/24 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	17	S1-	21 - 143	02/02/24 09:11	02/05/24 15:42	1
2,4-Dichlorophenylacetic acid (Surr)	19	S1-	21 - 143	02/02/24 09:11	02/05/24 15:42	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.97	0.045	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluoropentanoic acid (PFPeA)	ND		0.48	0.025	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorohexanoic acid (PFHxA)	ND		0.24	0.025	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluoroheptanoic acid (PFHpA)	ND		0.24	0.027	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorooctanoic acid (PFOA)	ND		0.24	0.051	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorononanoic acid (PFNA)	ND		0.24	0.015	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorodecanoic acid (PFDA)	ND		0.24	0.091	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.034	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorododecanoic acid (PFDoA)	ND		0.24	0.068	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorotridecanoic acid (PFTriA)	ND		0.24	0.034	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.24	0.021	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.017	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.24	0.016	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24	0.024	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24	0.034	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.24	0.068	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorononanesulfonic acid (PFNS)	ND		0.24	0.034	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.024	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.24	0.021	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
4:2 FTS	ND		0.97	0.093	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
6:2 FTS	ND		0.97	0.59	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
8:2 FTS	ND		0.97	0.14	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.015	ug/Kg	✱	02/09/24 09:10	02/14/24 03:50	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	ND		0.24	0.029	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
NEtFOSA	ND		0.24	0.038	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
NMeFOSAA	ND		0.24	0.030	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
NEtFOSAA	ND		0.24	0.029	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
NMeFOSE	ND		2.4	0.12	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
NEtFOSE	ND		2.4	0.13	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
HFPO-DA (GenX)	ND		0.97	0.11	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.97	0.098	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
PFMBA	ND		0.48	0.023	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
NFDHA	ND		0.48	0.058	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
PFMPA	ND		0.48	0.11	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
9Cl-PF3ONS	ND		0.97	0.062	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
11Cl-PF3OUdS	ND		0.97	0.15	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
PFEESA	ND		0.48	0.048	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
3:3 FTCA	ND		1.2	0.21	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
5:3 FTCA	ND		6.1	0.44	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1
7:3 FTCA	ND		6.1	0.37	ug/Kg	☼	02/09/24 09:10	02/14/24 03:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	76		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C5 PFPeA	74		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C5 PFHxA	76		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C4 PFHpA	76		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C8 PFOA	80		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C9 PFNA	81		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C6 PFDA	76		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C7 PFUnA	72		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C2 PFDoA	69		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C2 PFTeDA	56		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C3 PFBS	80		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C3 PFHxS	74		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C8 PFOS	70		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C8 FOSA	81		20 - 150	02/09/24 09:10	02/14/24 03:50	1
d3-NMeFOSAA	72		20 - 150	02/09/24 09:10	02/14/24 03:50	1
d5-NEtFOSAA	74		20 - 150	02/09/24 09:10	02/14/24 03:50	1
M2-4:2 FTS	72		20 - 150	02/09/24 09:10	02/14/24 03:50	1
M2-6:2 FTS	78		20 - 150	02/09/24 09:10	02/14/24 03:50	1
M2-8:2 FTS	71		20 - 150	02/09/24 09:10	02/14/24 03:50	1
13C3 HFPO-DA	80		20 - 150	02/09/24 09:10	02/14/24 03:50	1
d7-N-MeFOSE-M	61		20 - 150	02/09/24 09:10	02/14/24 03:50	1
d9-N-EtFOSE-M	62		20 - 150	02/09/24 09:10	02/14/24 03:50	1
d5-NEtPFOSA	49		20 - 150	02/09/24 09:10	02/14/24 03:50	1
d3-NMePFOSA	51		20 - 150	02/09/24 09:10	02/14/24 03:50	1

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:48	1
Barium	0.87	J	1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:48	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:48	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:48	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 82.5

Method: SW846 6010C - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012	J B	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:48	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:48	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:48	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 16:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.025	0.0058	mg/Kg	☼	02/01/24 12:04	02/01/24 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.4	9.4	mg/Kg		02/01/24 11:40	02/02/24 13:34	1
Sulfide, Reactive (SW846 9034)	ND		9.4	9.4	mg/Kg		02/01/24 11:40	02/02/24 16:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			02/01/24 09:04	1
pH (SW846 9045D)	9.2	HF	0.1	0.1	SU			02/02/24 13:43	1
Temperature (SW846 9045D)	17.9	HF	0.001	0.001	Degrees C			02/02/24 13:43	1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 15:27	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 15:27	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 15:27	10
Benzene	ND		0.010	0.0041	mg/L			02/05/24 15:27	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 15:27	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 15:27	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 15:27	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 15:27	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 15:27	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 15:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		02/05/24 15:27	10
4-Bromofluorobenzene (Surr)	97		73 - 120		02/05/24 15:27	10
Dibromofluoromethane (Surr)	90		75 - 123		02/05/24 15:27	10
Toluene-d8 (Surr)	100		80 - 120		02/05/24 15:27	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.71	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,1-Dichloroethane	ND		4.4	0.54	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2,4-Trimethylbenzene	3.6	J	4.4	0.84	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2-Dibromoethane	ND		4.4	0.56	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2-Dichlorobenzene	ND		4.4	0.34	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,3,5-Trimethylbenzene	3.5	J	4.4	0.28	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,3-Dichlorobenzene	ND		4.4	0.23	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
1,4-Dichlorobenzene	ND		4.4	0.61	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
2-Butanone (MEK)	3.0	J	22	1.6	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Acetone	40		22	3.7	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Benzene	3.5	J	4.4	0.22	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Bromomethane	ND		4.4	0.39	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Carbon tetrachloride	ND		4.4	0.42	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Chloroethane	ND		4.4	0.99	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Chloromethane	ND		4.4	0.27	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
cis-1,2-Dichloroethene	ND		4.4	0.56	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
cis-1,3-Dichloropropene	ND		4.4	0.63	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Cyclohexane	ND		4.4	0.61	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Dibromochloromethane	ND		4.4	0.56	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Ethylbenzene	1.6	J	4.4	0.30	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
m,p-Xylene	19		8.8	0.74	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Methylcyclohexane	ND		4.4	0.67	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
o-Xylene	7.6		4.4	0.57	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Styrene	ND		4.4	0.22	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Toluene	3.1	J	4.4	0.33	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Trichloroethene	ND		4.4	0.97	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Trichlorofluoromethane	ND		4.4	0.42	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Vinyl chloride	ND		4.4	0.54	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1
Xylenes, Total	27		8.8	0.74	ug/Kg	☼	01/31/24 16:00	01/31/24 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	01/31/24 16:00	01/31/24 22:27	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		72 - 126	01/31/24 16:00	01/31/24 22:27	1
Dibromofluoromethane (Surr)	106		60 - 140	01/31/24 16:00	01/31/24 22:27	1
Toluene-d8 (Surr)	97		71 - 125	01/31/24 16:00	01/31/24 22:27	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	70	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,4,5-Trichlorophenol	ND		220	59	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,4,6-Trichlorophenol	ND		220	43	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,4-Dimethylphenol	ND		220	52	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2,6-Dinitrotoluene	ND		220	25	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2-Chlorophenol	ND		420	39	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2-Methylnaphthalene	160	J	220	43	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2-Methylphenol	ND		220	25	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2-Nitroaniline	ND		420	32	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
2-Nitrophenol	ND		220	61	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
3,3'-Dichlorobenzidine	ND		420	250	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
3-Nitroaniline	ND		420	60	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4,6-Dinitro-2-methylphenol	ND		420	220	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Chloro-3-methylphenol	ND		220	53	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Chloroaniline	ND		220	53	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Methylphenol	31	J	420	25	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Nitroaniline	ND		420	110	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
4-Nitrophenol	ND		420	150	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Acenaphthene	ND		220	32	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Acenaphthylene	78	J	220	28	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Acetophenone	ND		220	29	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Anthracene	92	J	220	53	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Atrazine	ND		220	75	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Benzaldehyde	ND		220	170	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Benzo[a]anthracene	120	J	220	22	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Benzo[a]pyrene	110	J	220	32	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Benzo[b]fluoranthene	130	J	220	34	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Benzo[g,h,i]perylene	95	J	220	23	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Benzo[k]fluoranthene	67	J	220	28	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Biphenyl	ND		220	32	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
bis (2-chloroisopropyl) ether	ND		220	43	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Bis(2-chloroethoxy)methane	ND		220	46	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Bis(2-ethylhexyl) phthalate	ND		220	74	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Caprolactam	ND		220	65	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1
Carbazole	32	J	220	25	ug/Kg	☆	01/31/24 16:11	02/01/24 20:38	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	150	J	220	48	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Dibenz(a,h)anthracene	ND		220	38	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Dibenzofuran	67	J	220	25	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Diethyl phthalate	ND		220	28	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Dimethyl phthalate	ND		220	25	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Di-n-butyl phthalate	ND		220	37	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Di-n-octyl phthalate	ND		220	25	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Fluoranthene	230		220	23	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Fluorene	98	J	220	25	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Hexachlorobenzene	ND		220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Hexachlorobutadiene	ND		220	32	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Hexachlorocyclopentadiene	ND		220	29	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Hexachloroethane	ND		220	28	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Indeno[1,2,3-cd]pyrene	77	J	220	27	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Isophorone	ND		220	46	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Naphthalene	2500		220	28	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Nitrobenzene	ND		220	24	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
N-Nitrosodi-n-propylamine	ND		220	37	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Pentachlorophenol	ND		420	220	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Phenanthrene	320		220	32	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Phenol	ND		220	33	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1
Pyrene	240		220	25	ug/Kg	✳	01/31/24 16:11	02/01/24 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		54 - 120	01/31/24 16:11	02/01/24 20:38	1
2-Fluorobiphenyl (Surr)	105		60 - 120	01/31/24 16:11	02/01/24 20:38	1
2-Fluorophenol (Surr)	87		52 - 120	01/31/24 16:11	02/01/24 20:38	1
Nitrobenzene-d5 (Surr)	101		53 - 120	01/31/24 16:11	02/01/24 20:38	1
Phenol-d5 (Surr)	93		54 - 120	01/31/24 16:11	02/01/24 20:38	1
p-Terphenyl-d14 (Surr)	115		79 - 130	01/31/24 16:11	02/01/24 20:38	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.10	0.0045	mg/L		02/02/24 13:57	02/05/24 18:13	1
2,4,5-Trichlorophenol	ND		0.050	0.0048	mg/L		02/02/24 13:57	02/05/24 18:13	1
2,4,6-Trichlorophenol	ND		0.050	0.0060	mg/L		02/02/24 13:57	02/05/24 18:13	1
2,4-Dinitrotoluene	ND		0.050	0.0043	mg/L		02/02/24 13:57	02/05/24 18:13	1
2-Methylphenol	ND		0.050	0.0040	mg/L		02/02/24 13:57	02/05/24 18:13	1
3-Methylphenol	ND		0.10	0.0040	mg/L		02/02/24 13:57	02/05/24 18:13	1
4-Methylphenol	ND		0.10	0.0035	mg/L		02/02/24 13:57	02/05/24 18:13	1
Hexachlorobenzene	ND		0.050	0.0050	mg/L		02/02/24 13:57	02/05/24 18:13	1
Hexachlorobutadiene	ND		0.050	0.0068	mg/L		02/02/24 13:57	02/05/24 18:13	1
Hexachloroethane	ND		0.050	0.0058	mg/L		02/02/24 13:57	02/05/24 18:13	1
Nitrobenzene	ND		0.050	0.0028	mg/L		02/02/24 13:57	02/05/24 18:13	1
Pentachlorophenol	ND		0.10	0.022	mg/L		02/02/24 13:57	02/05/24 18:13	1
Pyridine	ND		0.25	0.0040	mg/L		02/02/24 13:57	02/05/24 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		41 - 120	02/02/24 13:57	02/05/24 18:13	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	89		48 - 120	02/02/24 13:57	02/05/24 18:13	1
2-Fluorophenol (Surr)	54		35 - 120	02/02/24 13:57	02/05/24 18:13	1
Nitrobenzene-d5 (Surr)	92		46 - 120	02/02/24 13:57	02/05/24 18:13	1
Phenol-d5 (Surr)	39		22 - 120	02/02/24 13:57	02/05/24 18:13	1
p-Terphenyl-d14 (Surr)	100		60 - 148	02/02/24 13:57	02/05/24 18:13	1

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.000073	mg/L		02/02/24 13:49	02/05/24 15:13	1
Endrin	ND		0.00050	0.000035	mg/L		02/02/24 13:49	02/05/24 15:13	1
gamma-BHC (Lindane)	ND		0.00050	0.000015	mg/L		02/02/24 13:49	02/05/24 15:13	1
Heptachlor	ND		0.00050	0.000021	mg/L		02/02/24 13:49	02/05/24 15:13	1
Heptachlor epoxide	ND		0.00050	0.000013	mg/L		02/02/24 13:49	02/05/24 15:13	1
Methoxychlor	ND		0.00050	0.000035	mg/L		02/02/24 13:49	02/05/24 15:13	1
Toxaphene	ND		0.0050	0.00030	mg/L		02/02/24 13:49	02/05/24 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	64		20 - 120	02/02/24 13:49	02/05/24 15:13	1
DCB Decachlorobiphenyl (Surr)	81		20 - 120	02/02/24 13:49	02/05/24 15:13	1
Tetrachloro-m-xylene (Surr)	78		44 - 120	02/02/24 13:49	02/05/24 15:13	1
Tetrachloro-m-xylene (Surr)	76		44 - 120	02/02/24 13:49	02/05/24 15:13	1

Method: SW846 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0050	0.0010	mg/L		02/02/24 09:11	02/05/24 16:00	1
Silvex (2,4,5-TP)	ND		0.0050	0.00090	mg/L		02/02/24 09:11	02/05/24 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	43		21 - 143	02/02/24 09:11	02/05/24 16:00	1
2,4-Dichlorophenylacetic acid (Surr)	21		21 - 143	02/02/24 09:11	02/05/24 16:00	1

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0070	J	0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:52	1
Barium	0.62	J	1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:52	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:52	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:52	1
Lead	0.019	J B	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:52	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:52	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:52	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 16:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.024	0.0056	mg/Kg	✱	02/01/24 12:04	02/01/24 14:34	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.8	9.8	mg/Kg		02/01/24 11:40	02/02/24 13:35	1
Sulfide, Reactive (SW846 9034)	19.5		9.8	9.8	mg/Kg		02/01/24 11:40	02/02/24 16:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			02/01/24 09:04	1
pH (SW846 9045D)	8.8	HF	0.1	0.1	SU			02/02/24 13:43	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			02/02/24 13:43	1

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.1

Method: SW846 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 15:49	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 15:49	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 15:49	10
Benzene	0.019		0.010	0.0041	mg/L			02/05/24 15:49	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 15:49	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 15:49	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 15:49	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 15:49	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 15:49	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 15:49	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120					02/05/24 15:49	10
4-Bromofluorobenzene (Surr)	97		73 - 120					02/05/24 15:49	10
Dibromofluoromethane (Surr)	95		75 - 123					02/05/24 15:49	10
Toluene-d8 (Surr)	106		80 - 120					02/05/24 15:49	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		56	16	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,1,2,2-Tetrachloroethane	ND		56	9.2	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		56	28	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,1,2-Trichloroethane	ND		56	12	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,1-Dichloroethane	ND		56	17	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,1-Dichloroethene	ND		56	20	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2,4-Trichlorobenzene	ND		56	21	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2,4-Trimethylbenzene	310		56	16	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2-Dibromo-3-Chloropropane	ND		56	28	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2-Dibromoethane	ND		56	9.9	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2-Dichlorobenzene	ND		56	14	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2-Dichloroethane	ND		56	23	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,2-Dichloropropane	ND		56	9.1	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,3,5-Trimethylbenzene	190		56	17	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,3-Dichlorobenzene	ND		56	15	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
1,4-Dichlorobenzene	ND		56	7.9	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
2-Butanone (MEK)	ND		280	170	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1
2-Hexanone	ND		280	120	ug/Kg	✧	02/02/24 09:13	02/02/24 15:05	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		280	18	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Acetone	ND		280	230	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Benzene	1600		56	11	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Bromodichloromethane	ND		56	11	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Bromoform	ND		56	28	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Bromomethane	ND		56	12	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Carbon disulfide	ND		56	26	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Carbon tetrachloride	ND		56	14	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Chlorobenzene	ND		56	7.4	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Chloroethane	ND		56	12	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Chloroform	ND		56	39	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Chloromethane	14 J		56	13	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
cis-1,2-Dichloroethene	ND		56	16	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
cis-1,3-Dichloropropene	ND		56	13	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Cyclohexane	ND		56	13	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Dibromochloromethane	ND		56	27	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Dichlorodifluoromethane	ND		56	25	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Ethylbenzene	87		56	16	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Isopropylbenzene	9.0 J		56	8.5	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
m,p-Xylene	830		110	31	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Methyl acetate	81 J		280	27	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Methyl tert-butyl ether	ND		56	21	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Methylcyclohexane	ND		56	26	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Methylene Chloride	ND		56	11	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
o-Xylene	190		56	7.3	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Styrene	99		56	14	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Tetrachloroethene	ND		56	7.6	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Toluene	730		56	15	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
trans-1,2-Dichloroethene	ND		56	13	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
trans-1,3-Dichloropropene	ND		56	5.5	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Trichloroethene	ND		56	16	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Trichlorofluoromethane	ND		56	26	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Vinyl chloride	ND		56	19	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1
Xylenes, Total	1000		110	31	ug/Kg	☼	02/02/24 09:13	02/02/24 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		53 - 146	02/02/24 09:13	02/02/24 15:05	1
4-Bromofluorobenzene (Surr)	95		49 - 148	02/02/24 09:13	02/02/24 15:05	1
Dibromofluoromethane (Surr)	88		60 - 140	02/02/24 09:13	02/02/24 15:05	1
Toluene-d8 (Surr)	99		50 - 149	02/02/24 09:13	02/02/24 15:05	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	71	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
2,4,5-Trichlorophenol	ND		220	59	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
2-Chloronaphthalene	ND		220	36	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
2-Chlorophenol	ND		420	40	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
2-Methylnaphthalene	82	J	220	44	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
2-Methylphenol	43	J	220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
2-Nitroaniline	ND		420	32	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
2-Nitrophenol	ND		220	62	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
3,3'-Dichlorobenzidine	ND		420	260	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
3-Nitroaniline	ND		420	60	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4,6-Dinitro-2-methylphenol	ND		420	220	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Chloro-3-methylphenol	ND		220	54	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Chloroaniline	ND		220	54	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Methylphenol	100	J	420	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Nitroaniline	ND		420	110	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
4-Nitrophenol	ND		420	150	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Acenaphthene	ND		220	32	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Acenaphthylene	66	J	220	28	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Acetophenone	ND		220	30	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Anthracene	67	J	220	54	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Atrazine	ND		220	76	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Benzaldehyde	ND		220	170	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Benzo[a]anthracene	160	J	220	22	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Benzo[a]pyrene	150	J	220	32	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Benzo[b]fluoranthene	190	J	220	35	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Benzo[g,h,i]perylene	140	J	220	23	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Benzo[k]fluoranthene	87	J	220	28	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Biphenyl	ND		220	32	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Bis(2-chloroethoxy)methane	ND		220	46	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Bis(2-ethylhexyl) phthalate	ND		220	75	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Caprolactam	ND		220	66	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Carbazole	ND		220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Chrysene	160	J	220	49	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Dibenzofuran	40	J	220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Diethyl phthalate	ND		220	28	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Dimethyl phthalate	ND		220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Di-n-butyl phthalate	ND		220	37	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Fluoranthene	260		220	23	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Fluorene	58	J	220	26	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Hexachlorobenzene	ND		220	30	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Hexachlorobutadiene	ND		220	32	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1
Hexachloroethane	ND		220	28	ug/Kg	✱	01/31/24 16:11	02/01/24 21:03	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	110	J	220	27	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Isophorone	ND		220	46	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Naphthalene	720		220	28	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Nitrobenzene	ND		220	24	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
N-Nitrosodi-n-propylamine	ND		220	37	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Pentachlorophenol	ND		420	220	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Phenanthrene	210	J	220	32	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Phenol	230		220	33	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1
Pyrene	300		220	26	ug/Kg	☼	01/31/24 16:11	02/01/24 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		54 - 120	01/31/24 16:11	02/01/24 21:03	1
2-Fluorobiphenyl (Surr)	110		60 - 120	01/31/24 16:11	02/01/24 21:03	1
2-Fluorophenol (Surr)	88		52 - 120	01/31/24 16:11	02/01/24 21:03	1
Nitrobenzene-d5 (Surr)	100		53 - 120	01/31/24 16:11	02/01/24 21:03	1
Phenol-d5 (Surr)	96		54 - 120	01/31/24 16:11	02/01/24 21:03	1
p-Terphenyl-d14 (Surr)	116		79 - 130	01/31/24 16:11	02/01/24 21:03	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0023	mg/L		02/02/24 13:57	02/05/24 18:38	1
2,4,5-Trichlorophenol	ND		0.025	0.0024	mg/L		02/02/24 13:57	02/05/24 18:38	1
2,4,6-Trichlorophenol	ND		0.025	0.0030	mg/L		02/02/24 13:57	02/05/24 18:38	1
2,4-Dinitrotoluene	ND		0.025	0.0021	mg/L		02/02/24 13:57	02/05/24 18:38	1
2-Methylphenol	0.0030	J	0.025	0.0020	mg/L		02/02/24 13:57	02/05/24 18:38	1
3-Methylphenol	0.0056	J	0.050	0.0020	mg/L		02/02/24 13:57	02/05/24 18:38	1
4-Methylphenol	0.0056	J	0.050	0.0018	mg/L		02/02/24 13:57	02/05/24 18:38	1
Hexachlorobenzene	ND		0.025	0.0025	mg/L		02/02/24 13:57	02/05/24 18:38	1
Hexachlorobutadiene	ND		0.025	0.0034	mg/L		02/02/24 13:57	02/05/24 18:38	1
Hexachloroethane	ND		0.025	0.0029	mg/L		02/02/24 13:57	02/05/24 18:38	1
Nitrobenzene	ND		0.025	0.0014	mg/L		02/02/24 13:57	02/05/24 18:38	1
Pentachlorophenol	ND		0.050	0.011	mg/L		02/02/24 13:57	02/05/24 18:38	1
Pyridine	ND		0.13	0.0020	mg/L		02/02/24 13:57	02/05/24 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		41 - 120	02/02/24 13:57	02/05/24 18:38	1
2-Fluorobiphenyl (Surr)	89		48 - 120	02/02/24 13:57	02/05/24 18:38	1
2-Fluorophenol (Surr)	50		35 - 120	02/02/24 13:57	02/05/24 18:38	1
Nitrobenzene-d5 (Surr)	91		46 - 120	02/02/24 13:57	02/05/24 18:38	1
Phenol-d5 (Surr)	36		22 - 120	02/02/24 13:57	02/05/24 18:38	1
p-Terphenyl-d14 (Surr)	103		60 - 148	02/02/24 13:57	02/05/24 18:38	1

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0025	0.000036	mg/L		02/02/24 13:49	02/05/24 15:32	1
Endrin	ND		0.00025	0.000017	mg/L		02/02/24 13:49	02/05/24 15:32	1
gamma-BHC (Lindane)	ND		0.00025	0.0000075	mg/L		02/02/24 13:49	02/05/24 15:32	1
Heptachlor	ND		0.00025	0.000011	mg/L		02/02/24 13:49	02/05/24 15:32	1
Heptachlor epoxide	ND		0.00025	0.0000066	mg/L		02/02/24 13:49	02/05/24 15:32	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.1

Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.00025	0.000018	mg/L		02/02/24 13:49	02/05/24 15:32	1
Toxaphene	ND		0.0025	0.00015	mg/L		02/02/24 13:49	02/05/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		20 - 120				02/02/24 13:49	02/05/24 15:32	1
DCB Decachlorobiphenyl (Surr)	69		20 - 120				02/02/24 13:49	02/05/24 15:32	1
Tetrachloro-m-xylene (Surr)	70		44 - 120				02/02/24 13:49	02/05/24 15:32	1
Tetrachloro-m-xylene (Surr)	70		44 - 120				02/02/24 13:49	02/05/24 15:32	1

Method: SW846 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0025	0.00050	mg/L		02/02/24 09:11	02/05/24 16:18	1
Silvex (2,4,5-TP)	ND		0.0025	0.00045	mg/L		02/02/24 09:11	02/05/24 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	10	S1-	21 - 143				02/02/24 09:11	02/05/24 16:18	1
2,4-Dichlorophenylacetic acid (Surr)	15	S1-	21 - 143				02/02/24 09:11	02/05/24 16:18	1

Method: SW846 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0070	J	0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:55	1
Barium	1.3		1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:55	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:55	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:55	1
Lead	0.047	B	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:55	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:55	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:55	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000080	J	0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 16:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.62		0.027	0.0062	mg/Kg	☼	02/01/24 12:04	02/01/24 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	ND		9.3	9.3	mg/Kg		02/01/24 11:40	02/02/24 13:36	1
Sulfide, Reactive (SW846 9034)	ND		9.3	9.3	mg/Kg		02/01/24 11:40	02/02/24 16:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			02/01/24 09:04	1
pH (SW846 9045D)	10	HF	0.1	0.1	SU			02/02/24 13:43	1
Temperature (SW846 9045D)	17.8	HF	0.001	0.001	Degrees C			02/02/24 13:43	1

Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			02/01/24 19:57	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			02/01/24 19:57	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			02/01/24 19:57	50
1,1,2-Trichloroethane	ND		50	12	ug/L			02/01/24 19:57	50
1,1-Dichloroethane	ND		50	19	ug/L			02/01/24 19:57	50
1,1-Dichloroethene	ND		50	15	ug/L			02/01/24 19:57	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			02/01/24 19:57	50
1,2,4-Trimethylbenzene	55		50	38	ug/L			02/01/24 19:57	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			02/01/24 19:57	50
1,2-Dibromoethane	ND		50	37	ug/L			02/01/24 19:57	50
1,2-Dichlorobenzene	ND		50	40	ug/L			02/01/24 19:57	50
1,2-Dichloroethane	ND		50	11	ug/L			02/01/24 19:57	50
1,2-Dichloropropane	ND		50	36	ug/L			02/01/24 19:57	50
1,3,5-Trimethylbenzene	ND		50	39	ug/L			02/01/24 19:57	50
1,3-Dichlorobenzene	ND		50	39	ug/L			02/01/24 19:57	50
1,4-Dichlorobenzene	ND		50	42	ug/L			02/01/24 19:57	50
2-Butanone (MEK)	ND		500	66	ug/L			02/01/24 19:57	50
2-Hexanone	ND		250	62	ug/L			02/01/24 19:57	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			02/01/24 19:57	50
Acetone	ND		500	150	ug/L			02/01/24 19:57	50
Benzene	2000		50	21	ug/L			02/01/24 19:57	50
Bromodichloromethane	ND		50	20	ug/L			02/01/24 19:57	50
Bromoform	ND		50	13	ug/L			02/01/24 19:57	50
Bromomethane	ND		50	35	ug/L			02/01/24 19:57	50
Carbon disulfide	ND		50	9.5	ug/L			02/01/24 19:57	50
Carbon tetrachloride	ND		50	14	ug/L			02/01/24 19:57	50
Chlorobenzene	ND		50	38	ug/L			02/01/24 19:57	50
Chloroethane	ND		50	16	ug/L			02/01/24 19:57	50
Chloroform	ND		50	17	ug/L			02/01/24 19:57	50
Chloromethane	ND		50	18	ug/L			02/01/24 19:57	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			02/01/24 19:57	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			02/01/24 19:57	50
Cyclohexane	ND		50	9.0	ug/L			02/01/24 19:57	50
Dibromochloromethane	ND		50	16	ug/L			02/01/24 19:57	50
Dichlorodifluoromethane	ND		50	34	ug/L			02/01/24 19:57	50
Ethylbenzene	ND		50	37	ug/L			02/01/24 19:57	50
Isopropylbenzene	ND		50	40	ug/L			02/01/24 19:57	50
m,p-Xylene	410		100	33	ug/L			02/01/24 19:57	50
Methyl acetate	ND		130	65	ug/L			02/01/24 19:57	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			02/01/24 19:57	50
Methylcyclohexane	ND		50	8.0	ug/L			02/01/24 19:57	50
Methylene Chloride	ND		50	22	ug/L			02/01/24 19:57	50
o-Xylene	110		50	38	ug/L			02/01/24 19:57	50
Styrene	59		50	37	ug/L			02/01/24 19:57	50
Tetrachloroethene	ND		50	18	ug/L			02/01/24 19:57	50
Toluene	770		50	26	ug/L			02/01/24 19:57	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			02/01/24 19:57	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			02/01/24 19:57	50
Trichloroethene	ND		50	23	ug/L			02/01/24 19:57	50

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		50	44	ug/L			02/01/24 19:57	50
Vinyl chloride	ND		50	45	ug/L			02/01/24 19:57	50
Xylenes, Total	520		100	33	ug/L			02/01/24 19:57	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120				02/01/24 19:57	02/01/24 19:57	50
4-Bromofluorobenzene (Surr)	94		73 - 120				02/01/24 19:57	02/01/24 19:57	50
Dibromofluoromethane (Surr)	96		75 - 123				02/01/24 19:57	02/01/24 19:57	50
Toluene-d8 (Surr)	109		80 - 120				02/01/24 19:57	02/01/24 19:57	50

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		50	5.5	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,4-Dichlorophenol	ND		25	2.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,4-Dimethylphenol	160		25	2.5	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,4-Dinitrophenol	ND		50	11	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,4-Dinitrotoluene	ND		25	2.2	ug/L		02/01/24 13:52	02/06/24 16:26	1
2,6-Dinitrotoluene	ND		25	2.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
2-Chloronaphthalene	ND		25	2.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
2-Chlorophenol	ND		25	2.7	ug/L		02/01/24 13:52	02/06/24 16:26	1
2-Methylnaphthalene	100		25	3.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
2-Methylphenol	340 E		25	2.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
2-Nitroaniline	ND		50	2.1	ug/L		02/01/24 13:52	02/06/24 16:26	1
2-Nitrophenol	ND		25	2.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
3-Nitroaniline	ND		50	2.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Chloroaniline	640 E		25	3.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Methylphenol	680 E		50	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Nitroaniline	ND		50	1.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
4-Nitrophenol	ND		50	7.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
Acenaphthene	20 J		25	2.1	ug/L		02/01/24 13:52	02/06/24 16:26	1
Acenaphthylene	40		25	1.9	ug/L		02/01/24 13:52	02/06/24 16:26	1
Acetophenone	46		25	2.7	ug/L		02/01/24 13:52	02/06/24 16:26	1
Anthracene	ND		25	1.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
Atrazine	ND		25	2.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
Benzaldehyde	ND		25	1.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
Benzo(a)anthracene	7.7 J		25	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
Benzo[a]pyrene	6.4 J		25	2.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
Benzo[b]fluoranthene	10 J		25	1.7	ug/L		02/01/24 13:52	02/06/24 16:26	1
Benzo[g,h,i]perylene	5.3 J		25	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
Benzo[k]fluoranthene	ND		25	3.7	ug/L		02/01/24 13:52	02/06/24 16:26	1
Biphenyl	ND		25	3.3	ug/L		02/01/24 13:52	02/06/24 16:26	1
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		02/01/24 13:52	02/06/24 16:26	1
Butyl benzyl phthalate	ND		25	5.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
Caprolactam	ND		25	11	ug/L		02/01/24 13:52	02/06/24 16:26	1
Carbazole	37		25	1.5	ug/L		02/01/24 13:52	02/06/24 16:26	1
Chrysene	8.8 J		25	1.7	ug/L		02/01/24 13:52	02/06/24 16:26	1
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		02/01/24 13:52	02/06/24 16:26	1
Dibenzofuran	24 J		50	2.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
Diethyl phthalate	ND		25	1.1	ug/L		02/01/24 13:52	02/06/24 16:26	1
Dimethyl phthalate	ND		25	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
Di-n-butyl phthalate	ND		25	1.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
Di-n-octyl phthalate	ND		25	2.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
Fluoranthene	26		25	2.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
Fluorene	27		25	1.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
Hexachlorobenzene	ND		25	2.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
Hexachlorobutadiene	ND		25	3.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
Hexachloroethane	ND		25	3.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
Indeno[1,2,3-cd]pyrene	4.2 J		25	2.4	ug/L		02/01/24 13:52	02/06/24 16:26	1
Isophorone	ND		25	2.2	ug/L		02/01/24 13:52	02/06/24 16:26	1
Naphthalene	1200 E		25	3.8	ug/L		02/01/24 13:52	02/06/24 16:26	1
Nitrobenzene	ND		25	1.5	ug/L		02/01/24 13:52	02/06/24 16:26	1
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		02/01/24 13:52	02/06/24 16:26	1
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		02/01/24 13:52	02/06/24 16:26	1
Pentachlorophenol	ND		50	11	ug/L		02/01/24 13:52	02/06/24 16:26	1
Phenanthrene	38		25	2.2	ug/L		02/01/24 13:52	02/06/24 16:26	1
Phenol	830 E		25	2.0	ug/L		02/01/24 13:52	02/06/24 16:26	1
Pyrene	21 J		25	1.7	ug/L		02/01/24 13:52	02/06/24 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		41 - 120	02/01/24 13:52	02/06/24 16:26	1
2-Fluorobiphenyl (Surr)	109		48 - 120	02/01/24 13:52	02/06/24 16:26	1
2-Fluorophenol (Surr)	89		35 - 120	02/01/24 13:52	02/06/24 16:26	1
Nitrobenzene-d5 (Surr)	94		46 - 120	02/01/24 13:52	02/06/24 16:26	1
Phenol-d5 (Surr)	63		22 - 120	02/01/24 13:52	02/06/24 16:26	1
p-Terphenyl-d14 (Surr)	123		60 - 148	02/01/24 13:52	02/06/24 16:26	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2500	280	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,4,5-Trichlorophenol	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,4,6-Trichlorophenol	ND		1300	150	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,4-Dichlorophenol	ND		1300	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,4-Dimethylphenol	ND		1300	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,4-Dinitrophenol	ND		2500	560	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,4-Dinitrotoluene	ND		1300	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
2,6-Dinitrotoluene	ND		1300	100	ug/L		02/01/24 13:52	02/08/24 18:00	50
2-Chloronaphthalene	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
2-Chlorophenol	ND		1300	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
2-Methylnaphthalene	ND		1300	150	ug/L		02/01/24 13:52	02/08/24 18:00	50

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	220	J	1300	100	ug/L		02/01/24 13:52	02/08/24 18:00	50
2-Nitroaniline	ND		2500	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
2-Nitrophenol	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
3,3'-Dichlorobenzidine	ND		1300	100	ug/L		02/01/24 13:52	02/08/24 18:00	50
3-Nitroaniline	ND		2500	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
4,6-Dinitro-2-methylphenol	ND		2500	550	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Bromophenyl phenyl ether	ND		1300	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Chloro-3-methylphenol	ND		1300	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Chloroaniline	ND		1300	150	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Chlorophenyl phenyl ether	ND		1300	88	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Methylphenol	390	J	2500	90	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Nitroaniline	ND		2500	63	ug/L		02/01/24 13:52	02/08/24 18:00	50
4-Nitrophenol	ND		2500	380	ug/L		02/01/24 13:52	02/08/24 18:00	50
Acenaphthene	ND		1300	100	ug/L		02/01/24 13:52	02/08/24 18:00	50
Acenaphthylene	ND		1300	95	ug/L		02/01/24 13:52	02/08/24 18:00	50
Acetophenone	ND		1300	140	ug/L		02/01/24 13:52	02/08/24 18:00	50
Anthracene	ND		1300	70	ug/L		02/01/24 13:52	02/08/24 18:00	50
Atrazine	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
Benzaldehyde	ND		1300	67	ug/L		02/01/24 13:52	02/08/24 18:00	50
Benzo(a)anthracene	ND		1300	90	ug/L		02/01/24 13:52	02/08/24 18:00	50
Benzo[a]pyrene	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
Benzo[b]fluoranthene	ND		1300	85	ug/L		02/01/24 13:52	02/08/24 18:00	50
Benzo[g,h,i]perylene	ND		1300	88	ug/L		02/01/24 13:52	02/08/24 18:00	50
Benzo[k]fluoranthene	ND		1300	180	ug/L		02/01/24 13:52	02/08/24 18:00	50
Biphenyl	ND		1300	160	ug/L		02/01/24 13:52	02/08/24 18:00	50
bis (2-chloroisopropyl) ether	ND		1300	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
Bis(2-chloroethoxy)methane	ND		1300	88	ug/L		02/01/24 13:52	02/08/24 18:00	50
Bis(2-chloroethyl)ether	ND		1300	100	ug/L		02/01/24 13:52	02/08/24 18:00	50
Bis(2-ethylhexyl) phthalate	ND		1300	550	ug/L		02/01/24 13:52	02/08/24 18:00	50
Butyl benzyl phthalate	ND		1300	250	ug/L		02/01/24 13:52	02/08/24 18:00	50
Caprolactam	ND		1300	550	ug/L		02/01/24 13:52	02/08/24 18:00	50
Carbazole	ND		1300	75	ug/L		02/01/24 13:52	02/08/24 18:00	50
Chrysene	ND		1300	83	ug/L		02/01/24 13:52	02/08/24 18:00	50
Dibenz(a,h)anthracene	ND		1300	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
Dibenzofuran	ND		2500	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
Diethyl phthalate	ND		1300	55	ug/L		02/01/24 13:52	02/08/24 18:00	50
Dimethyl phthalate	ND		1300	90	ug/L		02/01/24 13:52	02/08/24 18:00	50
Di-n-butyl phthalate	ND		1300	78	ug/L		02/01/24 13:52	02/08/24 18:00	50
Di-n-octyl phthalate	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
Fluoranthene	ND		1300	100	ug/L		02/01/24 13:52	02/08/24 18:00	50
Fluorene	ND		1300	90	ug/L		02/01/24 13:52	02/08/24 18:00	50
Hexachlorobenzene	ND		1300	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
Hexachlorobutadiene	ND		1300	170	ug/L		02/01/24 13:52	02/08/24 18:00	50
Hexachlorocyclopentadiene	ND		1300	150	ug/L		02/01/24 13:52	02/08/24 18:00	50
Hexachloroethane	ND		1300	150	ug/L		02/01/24 13:52	02/08/24 18:00	50
Indeno[1,2,3-cd]pyrene	ND		1300	120	ug/L		02/01/24 13:52	02/08/24 18:00	50
Isophorone	ND		1300	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
Naphthalene	9900		1300	190	ug/L		02/01/24 13:52	02/08/24 18:00	50
Nitrobenzene	ND		1300	73	ug/L		02/01/24 13:52	02/08/24 18:00	50

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Client Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		1300	140	ug/L		02/01/24 13:52	02/08/24 18:00	50
N-Nitrosodiphenylamine	ND		1300	130	ug/L		02/01/24 13:52	02/08/24 18:00	50
Pentachlorophenol	ND		2500	550	ug/L		02/01/24 13:52	02/08/24 18:00	50
Phenanthrene	ND		1300	110	ug/L		02/01/24 13:52	02/08/24 18:00	50
Phenol	640	J	1300	98	ug/L		02/01/24 13:52	02/08/24 18:00	50
Pyrene	ND		1300	85	ug/L		02/01/24 13:52	02/08/24 18:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	126	S1+	41 - 120	02/01/24 13:52	02/08/24 18:00	50
2-Fluorobiphenyl (Surr)	89		48 - 120	02/01/24 13:52	02/08/24 18:00	50
2-Fluorophenol (Surr)	58		35 - 120	02/01/24 13:52	02/08/24 18:00	50
Nitrobenzene-d5 (Surr)	59		46 - 120	02/01/24 13:52	02/08/24 18:00	50
Phenol-d5 (Surr)	38		22 - 120	02/01/24 13:52	02/08/24 18:00	50
p-Terphenyl-d14 (Surr)	50	S1-	60 - 148	02/01/24 13:52	02/08/24 18:00	50

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.0012	0.00026	mg/L		02/02/24 11:25	02/02/24 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	12.1		0.20	0.090	mg/L			02/01/24 08:16	10
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			02/01/24 09:04	1
pH (SW846 9040C)	10.5	HF	0.100	0.100	SU			02/01/24 16:50	1
Temperature (SW846 9040C)	18.9	HF	0.00100	0.00100	Degrees C			02/01/24 16:50	1

Surrogate Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - TCLP Volatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-699845/6	Lab Control Sample	94	94	95	98
MB 480-699845/8	Method Blank	98	95	99	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-216732-1	F-LOA-01-01302024	93	94	91	99
480-216732-2	F-LOA-02-01302024	91	96	88	100
480-216732-3	F-LOA-03-01302024	94	98	94	105
480-216732-4	F-LOA-04-01302024	97	93	95	101
480-216732-5	F-LOA-05-01302024	93	97	90	100
480-216732-6	F-LOA-06-01302024	97	97	95	106
LB 480-699601/1-A	Method Blank	94	96	91	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (53-146)	BFB (49-148)	DBFM (60-140)	TOL (50-149)
480-216732-1	F-LOA-01-01302024	96	96	90	97
480-216732-3	F-LOA-03-01302024	100	93	88	96
480-216732-3 - DL	F-LOA-03-01302024	97	97	91	99
480-216732-4	F-LOA-04-01302024	100	94	89	99
480-216732-6	F-LOA-06-01302024	99	95	88	99
LCS 480-699607/1-A	Lab Control Sample	94	94	92	98
MB 480-699607/3-A	Method Blank	95	95	93	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-216732-2	F-LOA-02-01302024	107	106	108	96
480-216732-5	F-LOA-05-01302024	107	108	106	97
LCS 480-699570/1-A	Lab Control Sample	99	105	105	98
LCS D 480-699570/2-A	Lab Control Sample Dup	98	106	103	97
MB 480-699570/3-A	Method Blank	100	106	106	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-216732-7	F-LOA-07-01292024	102	94	96	109
LCS 480-699604/6	Lab Control Sample	94	89	94	103
MB 480-699604/8	Method Blank	101	96	101	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
480-216732-1	F-LOA-01-01302024	88	98	81	91	87	99
480-216732-1 - DL	F-LOA-01-01302024	63	72	74	67	65	87
480-216732-2	F-LOA-02-01302024	97	105	89	101	96	118
480-216732-3	F-LOA-03-01302024	92	108	91	104	97	131 S1+
480-216732-4	F-LOA-04-01302024	91	100	81	93	87	108
480-216732-4 - DL	F-LOA-04-01302024	63	78	77	73	70	84
480-216732-4 MS	F-LOA-04-01302024	105	105	89	101	94	113
480-216732-4 MS - DL	F-LOA-04-01302024	91	88	86	80	85	88
480-216732-4 MSD	F-LOA-04-01302024	98	105	87	98	90	106
480-216732-4 MSD - DL	F-LOA-04-01302024	92	89	85	81	81	94
480-216732-5	F-LOA-05-01302024	82	105	87	101	93	115
480-216732-6	F-LOA-06-01302024	92	110	88	100	96	116
LCS 480-699565/2-A	Lab Control Sample	94	101	89	95	96	118
MB 480-699565/1-A	Method Blank	88	103	94	103	102	120

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)

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Surrogate Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPHd14 (60-148)
LCS 480-699753/2-A	Lab Control Sample	96	97	56	97	43	111
LCSD 480-699753/3-A	Lab Control Sample Dup	95	94	55	94	42	105
MB 480-699753/1-A	Method Blank	66	88	51	90	35	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPHd14 (60-148)
480-216732-1	F-LOA-01-01302024	90	99	56	103	42	114
480-216732-2	F-LOA-02-01302024	77	83	47	86	34	100
480-216732-3	F-LOA-03-01302024	87	89	51	91	39	95
480-216732-4	F-LOA-04-01302024	84	97	57	100	40	104
480-216732-5	F-LOA-05-01302024	78	89	54	92	39	100
480-216732-6	F-LOA-06-01302024	82	89	50	91	36	103
LB 480-699598/1-F	Method Blank	84	94	54	98	38	109

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPHd14 (60-148)
480-216732-7	F-LOA-07-01292024	115	109	89	94	63	123
480-216732-7 - DL	F-LOA-07-01292024	126 S1+	89	58	59	38	50 S1-
LCS 480-699657/2-A	Lab Control Sample	91	103	71	94	55	108
MB 480-699657/1-A	Method Blank	60	110	75	88	52	135

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)

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Surrogate Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 480-216732-1

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (20-120)	DCBP2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
LCS 480-699748/2-A	Lab Control Sample	47	63	71	76
LCSD 480-699748/3-A	Lab Control Sample Dup	51	68	63	66
MB 480-699748/1-A	Method Blank	42	57	72	76

Surrogate Legend

DCBP = DCB Decachlorobiphenyl (Surr)
 TCX = Tetrachloro-m-xylene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (20-120)	DCBP2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
480-216732-1	F-LOA-01-01302024	69	90	58	55
480-216732-2	F-LOA-02-01302024	57	76	66	83
480-216732-3	F-LOA-03-01302024	55	67	61	66
480-216732-4	F-LOA-04-01302024	64	81	61	69
480-216732-5	F-LOA-05-01302024	64	81	78	76
480-216732-6	F-LOA-06-01302024	55	69	70	70
LB 480-699598/1-E	Method Blank	57	75	54	61

Surrogate Legend

DCBP = DCB Decachlorobiphenyl (Surr)
 TCX = Tetrachloro-m-xylene (Surr)

Method: 8151 - TCLP Herbicides

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1 (21-143)	DCPAA2 (21-143)
LCS 480-699705/2-A	Lab Control Sample	88	83
LCSD 480-699705/3-A	Lab Control Sample Dup	106	84
MB 480-699705/1-A	Method Blank	85	82

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151 - TCLP Herbicides

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1 (21-143)	DCPAA2 (21-143)
480-216732-1	F-LOA-01-01302024	53	51
480-216732-2	F-LOA-02-01302024	31	25
480-216732-3	F-LOA-03-01302024	18 S1-	17 S1-

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Surrogate Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8151 - TCLP Herbicides (Continued)

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (21-143)	DCPAA2 (21-143)
480-216732-4	F-LOA-04-01302024	17 S1-	19 S1-
480-216732-5	F-LOA-05-01302024	43	21
480-216732-6	F-LOA-06-01302024	10 S1-	15 S1-
LB 480-699598/1-B	Method Blank	30	21

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Isotope Dilution Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-216732-4	F-LOA-04-01302024	76	74	76	76	80	81	76	72
LCS 280-642488/3-A	Lab Control Sample	81	87	86	81	91	80	82	71
LLCS 280-642488/2-A	Lab Control Sample	78	94	88	89	83	80	77	71
MB 280-642488/1-A	Method Blank	86	90	83	81	89	80	77	69

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
480-216732-4	F-LOA-04-01302024	69	56	80	74	70	81	72	74
LCS 280-642488/3-A	Lab Control Sample	73	60	95	92	80	87	73	75
LLCS 280-642488/2-A	Lab Control Sample	62	45	84	79	82	91	77	69
MB 280-642488/1-A	Method Blank	62	48	95	77	71	90	69	64

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFm (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
480-216732-4	F-LOA-04-01302024	72	78	71	80	61	62	49	51
LCS 280-642488/3-A	Lab Control Sample	88	82	74	75	65	64	56	63
LLCS 280-642488/2-A	Lab Control Sample	78	70	75	88	56	57	54	59
MB 280-642488/1-A	Method Blank	92	80	78	89	62	58	45	47

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA
- NMFm = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- d3NMFSA = d3-NMePFOSA

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-699845/8
Matrix: Solid
Analysis Batch: 699845

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			02/05/24 12:33	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			02/05/24 12:33	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			02/05/24 12:33	1
Benzene	ND		0.0010	0.00041	mg/L			02/05/24 12:33	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			02/05/24 12:33	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			02/05/24 12:33	1
Chloroform	ND		0.0010	0.00034	mg/L			02/05/24 12:33	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			02/05/24 12:33	1
Trichloroethene	ND		0.0010	0.00046	mg/L			02/05/24 12:33	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			02/05/24 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		02/05/24 12:33	1
4-Bromofluorobenzene (Surr)	95		73 - 120		02/05/24 12:33	1
Dibromofluoromethane (Surr)	99		75 - 123		02/05/24 12:33	1
Toluene-d8 (Surr)	102		80 - 120		02/05/24 12:33	1

Lab Sample ID: LCS 480-699845/6
Matrix: Solid
Analysis Batch: 699845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0250	0.0263		mg/L		105	66 - 127
1,2-Dichloroethane	0.0250	0.0250		mg/L		100	75 - 120
2-Butanone (MEK)	0.125	0.109		mg/L		87	57 - 140
Benzene	0.0250	0.0256		mg/L		102	71 - 124
Carbon tetrachloride	0.0250	0.0257		mg/L		103	72 - 134
Chlorobenzene	0.0250	0.0251		mg/L		100	80 - 120
Chloroform	0.0250	0.0244		mg/L		98	73 - 127
Tetrachloroethene	0.0250	0.0271		mg/L		109	74 - 122
Trichloroethene	0.0250	0.0259		mg/L		104	74 - 123
Vinyl chloride	0.0250	0.0272		mg/L		109	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LB 480-699601/1-A
Matrix: Solid
Analysis Batch: 699845

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/05/24 13:23	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/05/24 13:23	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/05/24 13:23	10
Benzene	ND		0.010	0.0041	mg/L			02/05/24 13:23	10

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-699601/1-A
Matrix: Solid
Analysis Batch: 699845

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/05/24 13:23	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/05/24 13:23	10
Chloroform	ND		0.010	0.0034	mg/L			02/05/24 13:23	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/05/24 13:23	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/05/24 13:23	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/05/24 13:23	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		02/05/24 13:23	10
4-Bromofluorobenzene (Surr)	96		73 - 120		02/05/24 13:23	10
Dibromofluoromethane (Surr)	91		75 - 123		02/05/24 13:23	10
Toluene-d8 (Surr)	97		80 - 120		02/05/24 13:23	10

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-699570/3-A
Matrix: Solid
Analysis Batch: 699571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
2-Hexanone	ND		25	2.5	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Acetone	ND		25	4.2	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Benzene	ND		5.0	0.25	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Bromoform	ND		5.0	2.5	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Bromomethane	ND		5.0	0.45	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Chloroethane	ND		5.0	1.1	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Chloroform	ND		5.0	0.31	ug/Kg		01/31/24 17:51	01/31/24 21:38	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-699570/3-A
Matrix: Solid
Analysis Batch: 699571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	0.30	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Cyclohexane	ND		5.0	0.70	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
m,p-Xylene	ND		10	0.84	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Methyl acetate	ND		25	3.0	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
o-Xylene	ND		5.0	0.65	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Styrene	ND		5.0	0.25	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Toluene	ND		5.0	0.38	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Trichloroethene	ND		5.0	1.1	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		01/31/24 17:51	01/31/24 21:38	1
Xylenes, Total	ND		10	0.84	ug/Kg		01/31/24 17:51	01/31/24 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	01/31/24 17:51	01/31/24 21:38	1
4-Bromofluorobenzene (Surr)	106		72 - 126	01/31/24 17:51	01/31/24 21:38	1
Dibromofluoromethane (Surr)	106		60 - 140	01/31/24 17:51	01/31/24 21:38	1
Toluene-d8 (Surr)	96		71 - 125	01/31/24 17:51	01/31/24 21:38	1

Lab Sample ID: LCS 480-699570/1-A
Matrix: Solid
Analysis Batch: 699571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	77 - 121
1,1,2,2-Tetrachloroethane	50.0	40.6		ug/Kg		81	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.8		ug/Kg		84	60 - 140
1,1,2-Trichloroethane	50.0	42.0		ug/Kg		84	78 - 122
1,1-Dichloroethane	50.0	46.1		ug/Kg		92	73 - 126
1,1-Dichloroethene	50.0	44.0		ug/Kg		88	59 - 125
1,2,4-Trichlorobenzene	50.0	45.2		ug/Kg		90	64 - 120
1,2,4-Trimethylbenzene	50.0	43.0		ug/Kg		86	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/Kg		88	63 - 124
1,2-Dibromoethane	50.0	45.5		ug/Kg		91	78 - 120
1,2-Dichlorobenzene	50.0	42.9		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	47.3		ug/Kg		95	77 - 122
1,2-Dichloropropane	50.0	45.6		ug/Kg		91	75 - 124

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-699570/1-A
Matrix: Solid
Analysis Batch: 699571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	43.2		ug/Kg		86	74 - 120
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	74 - 120
1,4-Dichlorobenzene	50.0	42.1		ug/Kg		84	73 - 120
2-Butanone (MEK)	250	271		ug/Kg		108	70 - 134
2-Hexanone	250	221		ug/Kg		88	59 - 130
4-Methyl-2-pentanone (MIBK)	250	214		ug/Kg		85	65 - 133
Acetone	250	271		ug/Kg		109	61 - 137
Benzene	50.0	46.1		ug/Kg		92	79 - 127
Bromodichloromethane	50.0	47.0		ug/Kg		94	80 - 122
Bromoform	50.0	48.7		ug/Kg		97	68 - 126
Bromomethane	50.0	46.1		ug/Kg		92	37 - 149
Carbon disulfide	50.0	41.6		ug/Kg		83	64 - 131
Carbon tetrachloride	50.0	47.5		ug/Kg		95	75 - 135
Chlorobenzene	50.0	44.9		ug/Kg		90	76 - 124
Chloroethane	50.0	48.2		ug/Kg		96	69 - 135
Chloroform	50.0	46.4		ug/Kg		93	80 - 120
Chloromethane	50.0	44.3		ug/Kg		89	63 - 127
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	81 - 120
cis-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	80 - 120
Cyclohexane	50.0	43.2		ug/Kg		86	65 - 120
Dibromochloromethane	50.0	48.3		ug/Kg		97	76 - 125
Dichlorodifluoromethane	50.0	43.5		ug/Kg		87	57 - 142
Ethylbenzene	50.0	44.3		ug/Kg		89	80 - 120
Isopropylbenzene	50.0	42.4		ug/Kg		85	72 - 120
m,p-Xylene	50.0	44.4		ug/Kg		89	70 - 130
Methyl acetate	100	98.9		ug/Kg		99	55 - 136
Methyl tert-butyl ether	50.0	47.2		ug/Kg		94	63 - 125
Methylcyclohexane	50.0	45.1		ug/Kg		90	60 - 140
Methylene Chloride	50.0	48.2		ug/Kg		96	61 - 127
o-Xylene	50.0	44.5		ug/Kg		89	70 - 130
Styrene	50.0	44.1		ug/Kg		88	80 - 120
Tetrachloroethene	50.0	44.8		ug/Kg		90	74 - 122
Toluene	50.0	44.0		ug/Kg		88	74 - 128
trans-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	78 - 126
trans-1,3-Dichloropropene	50.0	44.9		ug/Kg		90	73 - 123
Trichloroethene	50.0	47.4		ug/Kg		95	77 - 129
Trichlorofluoromethane	50.0	49.2		ug/Kg		98	65 - 146
Vinyl chloride	50.0	45.8		ug/Kg		92	61 - 133
Xylenes, Total	100	88.9		ug/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	98		71 - 125

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-699570/2-A

Matrix: Solid

Analysis Batch: 699571

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 699570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1-Trichloroethane	50.0	47.3		ug/Kg		95	77 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	44.1		ug/Kg		88	80 - 120	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.0		ug/Kg		86	60 - 140	3	20
1,1,2-Trichloroethane	50.0	45.1		ug/Kg		90	78 - 122	7	20
1,1-Dichloroethane	50.0	46.3		ug/Kg		93	73 - 126	0	20
1,1-Dichloroethene	50.0	43.5		ug/Kg		87	59 - 125	1	20
1,2,4-Trichlorobenzene	50.0	44.4		ug/Kg		89	64 - 120	2	20
1,2,4-Trimethylbenzene	50.0	43.1		ug/Kg		86	74 - 120	0	20
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/Kg		92	63 - 124	5	20
1,2-Dibromoethane	50.0	48.1		ug/Kg		96	78 - 120	6	20
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 120	3	20
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	77 - 122	4	20
1,2-Dichloropropane	50.0	47.5		ug/Kg		95	75 - 124	4	20
1,3,5-Trimethylbenzene	50.0	42.7		ug/Kg		85	74 - 120	1	20
1,3-Dichlorobenzene	50.0	44.5		ug/Kg		89	74 - 120	2	20
1,4-Dichlorobenzene	50.0	43.1		ug/Kg		86	73 - 120	2	20
2-Butanone (MEK)	250	229		ug/Kg		92	70 - 134	17	20
2-Hexanone	250	232		ug/Kg		93	59 - 130	5	20
4-Methyl-2-pentanone (MIBK)	250	227		ug/Kg		91	65 - 133	6	20
Acetone	250	282		ug/Kg		113	61 - 137	4	20
Benzene	50.0	46.2		ug/Kg		92	79 - 127	0	20
Bromodichloromethane	50.0	48.5		ug/Kg		97	80 - 122	3	20
Bromoform	50.0	51.5		ug/Kg		103	68 - 126	6	20
Bromomethane	50.0	48.2		ug/Kg		96	37 - 149	5	20
Carbon disulfide	50.0	40.5		ug/Kg		81	64 - 131	3	20
Carbon tetrachloride	50.0	47.0		ug/Kg		94	75 - 135	1	20
Chlorobenzene	50.0	45.7		ug/Kg		91	76 - 124	2	20
Chloroethane	50.0	46.7		ug/Kg		93	69 - 135	3	20
Chloroform	50.0	46.1		ug/Kg		92	80 - 120	1	20
Chloromethane	50.0	43.3		ug/Kg		87	63 - 127	2	20
cis-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	81 - 120	1	20
cis-1,3-Dichloropropene	50.0	48.4		ug/Kg		97	80 - 120	4	20
Cyclohexane	50.0	43.2		ug/Kg		86	65 - 120	0	20
Dibromochloromethane	50.0	50.6		ug/Kg		101	76 - 125	5	20
Dichlorodifluoromethane	50.0	42.0		ug/Kg		84	57 - 142	4	20
Ethylbenzene	50.0	44.6		ug/Kg		89	80 - 120	1	20
Isopropylbenzene	50.0	43.2		ug/Kg		86	72 - 120	2	20
m,p-Xylene	50.0	44.0		ug/Kg		88	70 - 130	1	20
Methyl acetate	100	85.3		ug/Kg		85	55 - 136	15	20
Methyl tert-butyl ether	50.0	48.1		ug/Kg		96	63 - 125	2	20
Methylcyclohexane	50.0	45.2		ug/Kg		90	60 - 140	0	20
Methylene Chloride	50.0	49.7		ug/Kg		99	61 - 127	3	20
o-Xylene	50.0	44.3		ug/Kg		89	70 - 130	0	20
Styrene	50.0	44.2		ug/Kg		88	80 - 120	0	20
Tetrachloroethene	50.0	45.5		ug/Kg		91	74 - 122	1	20
Toluene	50.0	44.4		ug/Kg		89	74 - 128	1	20
trans-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	78 - 126	0	20
trans-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	73 - 123	3	20

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-699570/2-A
Matrix: Solid
Analysis Batch: 699571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 699570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	46.1		ug/Kg		92	77 - 129	3	20
Trichlorofluoromethane	50.0	48.1		ug/Kg		96	65 - 146	2	20
Vinyl chloride	50.0	44.4		ug/Kg		89	61 - 133	3	20
Xylenes, Total	100	88.3		ug/Kg		88	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	98		64 - 126
4-Bromofluorobenzene (Surr)	106		72 - 126
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	97		71 - 125

Lab Sample ID: MB 480-699604/8
Matrix: Water
Analysis Batch: 699604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/01/24 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/24 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/01/24 12:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/01/24 12:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/01/24 12:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/01/24 12:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/01/24 12:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/01/24 12:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/01/24 12:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/01/24 12:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/01/24 12:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/01/24 12:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/01/24 12:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/01/24 12:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/01/24 12:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/01/24 12:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/01/24 12:49	1
2-Hexanone	ND		5.0	1.2	ug/L			02/01/24 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/01/24 12:49	1
Acetone	ND		10	3.0	ug/L			02/01/24 12:49	1
Benzene	ND		1.0	0.41	ug/L			02/01/24 12:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/01/24 12:49	1
Bromoform	ND		1.0	0.26	ug/L			02/01/24 12:49	1
Bromomethane	ND		1.0	0.69	ug/L			02/01/24 12:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/01/24 12:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/01/24 12:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/01/24 12:49	1
Chloroethane	ND		1.0	0.32	ug/L			02/01/24 12:49	1
Chloroform	ND		1.0	0.34	ug/L			02/01/24 12:49	1
Chloromethane	ND		1.0	0.35	ug/L			02/01/24 12:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/01/24 12:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/01/24 12:49	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-699604/8
Matrix: Water
Analysis Batch: 699604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			02/01/24 12:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/01/24 12:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/01/24 12:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/01/24 12:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/01/24 12:49	1
m,p-Xylene	ND		2.0	0.66	ug/L			02/01/24 12:49	1
Methyl acetate	ND		2.5	1.3	ug/L			02/01/24 12:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/01/24 12:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/01/24 12:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/24 12:49	1
o-Xylene	ND		1.0	0.76	ug/L			02/01/24 12:49	1
Styrene	ND		1.0	0.73	ug/L			02/01/24 12:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/24 12:49	1
Toluene	ND		1.0	0.51	ug/L			02/01/24 12:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/24 12:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/01/24 12:49	1
Trichloroethene	ND		1.0	0.46	ug/L			02/01/24 12:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/01/24 12:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/01/24 12:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/01/24 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/01/24 12:49	1
4-Bromofluorobenzene (Surr)	96		73 - 120		02/01/24 12:49	1
Dibromofluoromethane (Surr)	101		75 - 123		02/01/24 12:49	1
Toluene-d8 (Surr)	108		80 - 120		02/01/24 12:49	1

Lab Sample ID: LCS 480-699604/6
Matrix: Water
Analysis Batch: 699604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	22.2		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		99	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.9		ug/L		84	61 - 148
1,1,2-Trichloroethane	25.0	22.9		ug/L		91	76 - 122
1,1-Dichloroethane	25.0	22.6		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	22.6		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	79 - 122
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.1		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	22.9		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	23.4		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	23.3		ug/L		93	76 - 120
1,3,5-Trimethylbenzene	25.0	28.2		ug/L		113	77 - 121
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 120

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-699604/6
Matrix: Water
Analysis Batch: 699604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	125	103		ug/L		82	57 - 140
2-Hexanone	125	97.0		ug/L		78	65 - 127
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	71 - 125
Acetone	125	129		ug/L		103	56 - 142
Benzene	25.0	23.9		ug/L		96	71 - 124
Bromodichloromethane	25.0	23.9		ug/L		96	80 - 122
Bromoform	25.0	20.6		ug/L		82	61 - 132
Bromomethane	25.0	22.6		ug/L		90	55 - 144
Carbon disulfide	25.0	22.6		ug/L		91	59 - 134
Carbon tetrachloride	25.0	22.3		ug/L		89	72 - 134
Chlorobenzene	25.0	23.4		ug/L		94	80 - 120
Chloroethane	25.0	23.8		ug/L		95	69 - 136
Chloroform	25.0	22.6		ug/L		91	73 - 127
Chloromethane	25.0	21.3		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	74 - 124
Cyclohexane	25.0	20.1		ug/L		81	59 - 135
Dibromochloromethane	25.0	24.5		ug/L		98	75 - 125
Dichlorodifluoromethane	25.0	18.7		ug/L		75	59 - 135
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
Isopropylbenzene	25.0	28.8		ug/L		115	77 - 122
m,p-Xylene	25.0	23.3		ug/L		93	76 - 122
Methyl acetate	50.0	39.3		ug/L		79	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		97	77 - 120
Methylcyclohexane	25.0	19.2		ug/L		77	68 - 134
Methylene Chloride	25.0	26.7		ug/L		107	75 - 124
o-Xylene	25.0	24.6		ug/L		98	76 - 122
Styrene	25.0	22.1		ug/L		89	80 - 120
Tetrachloroethene	25.0	24.2		ug/L		97	74 - 122
Toluene	25.0	25.0		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	23.1		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	22.7		ug/L		91	62 - 150
Vinyl chloride	25.0	22.5		ug/L		90	65 - 133
Xylenes, Total	50.0	47.9		ug/L		96	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123
Toluene-d8 (Surr)	103		80 - 120

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-699607/3-A
Matrix: Solid
Analysis Batch: 699697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699607

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		100	28	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,1-Dichloroethane	ND		100	31	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,1-Dichloroethene	ND		100	35	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2-Dibromoethane	ND		100	18	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2-Dichloroethane	ND		100	41	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,2-Dichloropropane	ND		100	16	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
2-Butanone (MEK)	ND		500	300	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
2-Hexanone	ND		500	210	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Acetone	ND		500	410	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Benzene	ND		100	19	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Bromodichloromethane	ND		100	20	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Bromoform	ND		100	50	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Bromomethane	ND		100	22	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Carbon disulfide	ND		100	46	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Carbon tetrachloride	ND		100	26	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Chlorobenzene	ND		100	13	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Chloroethane	ND		100	21	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Chloroform	ND		100	69	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Chloromethane	ND		100	24	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Cyclohexane	ND		100	22	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Dibromochloromethane	ND		100	48	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Ethylbenzene	ND		100	29	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Isopropylbenzene	ND		100	15	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
m,p-Xylene	ND		200	55	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Methyl acetate	ND		500	48	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Methylcyclohexane	ND		100	47	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Methylene Chloride	ND		100	20	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
o-Xylene	ND		100	13	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Styrene	ND		100	24	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Tetrachloroethene	ND		100	13	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Toluene	ND		100	27	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		02/02/24 09:13	02/02/24 13:07	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-699607/3-A
Matrix: Solid
Analysis Batch: 699697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699607

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	ND		100	28	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Trichlorofluoromethane	ND		100	47	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Vinyl chloride	ND		100	34	ug/Kg		02/02/24 09:13	02/02/24 13:07	1
Xylenes, Total	ND		200	55	ug/Kg		02/02/24 09:13	02/02/24 13:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		53 - 146	02/02/24 09:13	02/02/24 13:07	1
4-Bromofluorobenzene (Surr)	95		49 - 148	02/02/24 09:13	02/02/24 13:07	1
Dibromofluoromethane (Surr)	93		60 - 140	02/02/24 09:13	02/02/24 13:07	1
Toluene-d8 (Surr)	100		50 - 149	02/02/24 09:13	02/02/24 13:07	1

Lab Sample ID: LCS 480-699607/1-A
Matrix: Solid
Analysis Batch: 699697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699607

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	2500	2410		ug/Kg		96	68 - 130
1,1,1,2-Tetrachloroethane	2500	2340		ug/Kg		94	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2170		ug/Kg		87	10 - 179
1,1,2-Trichloroethane	2500	2360		ug/Kg		95	80 - 120
1,1-Dichloroethane	2500	2480		ug/Kg		99	78 - 121
1,1-Dichloroethene	2500	2010		ug/Kg		80	48 - 133
1,2,4-Trichlorobenzene	2500	2710		ug/Kg		108	70 - 140
1,2,4-Trimethylbenzene	2500	2740		ug/Kg		109	77 - 127
1,2-Dibromo-3-Chloropropane	2500	1920		ug/Kg		77	56 - 122
1,2-Dibromoethane	2500	2260		ug/Kg		90	80 - 120
1,2-Dichlorobenzene	2500	2550		ug/Kg		102	78 - 125
1,2-Dichloroethane	2500	2200		ug/Kg		88	74 - 127
1,2-Dichloropropane	2500	2400		ug/Kg		96	80 - 120
1,3,5-Trimethylbenzene	2500	2750		ug/Kg		110	79 - 120
1,3-Dichlorobenzene	2500	2580		ug/Kg		103	80 - 120
1,4-Dichlorobenzene	2500	2500		ug/Kg		100	80 - 120
2-Butanone (MEK)	12500	12100		ug/Kg		96	54 - 149
2-Hexanone	12500	11400		ug/Kg		92	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	10900		ug/Kg		87	74 - 120
Acetone	12500	11600		ug/Kg		93	47 - 141
Benzene	2500	2380		ug/Kg		95	77 - 125
Bromodichloromethane	2500	2270		ug/Kg		91	71 - 121
Bromoform	2500	2440		ug/Kg		97	48 - 125
Bromomethane	2500	1910		ug/Kg		77	39 - 149
Carbon disulfide	2500	2020		ug/Kg		81	40 - 136
Carbon tetrachloride	2500	2410		ug/Kg		96	54 - 135
Chlorobenzene	2500	2370		ug/Kg		95	76 - 126
Chloroethane	2500	1900		ug/Kg		76	23 - 150
Chloroform	2500	2270		ug/Kg		91	78 - 120
Chloromethane	2500	2440		ug/Kg		98	61 - 124
cis-1,2-Dichloroethene	2500	2350		ug/Kg		94	79 - 124
cis-1,3-Dichloropropene	2500	2280		ug/Kg		91	75 - 121

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-699607/1-A
Matrix: Solid
Analysis Batch: 699697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699607

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Cyclohexane	2500	2620		ug/Kg		105	49 - 129
Dibromochloromethane	2500	2270		ug/Kg		91	64 - 120
Dichlorodifluoromethane	2500	1990		ug/Kg		80	10 - 150
Ethylbenzene	2500	2470		ug/Kg		99	78 - 124
Isopropylbenzene	2500	2780		ug/Kg		111	76 - 120
m,p-Xylene	2500	2440		ug/Kg		98	77 - 125
Methyl acetate	5000	4860		ug/Kg		97	71 - 123
Methyl tert-butyl ether	2500	2160		ug/Kg		86	67 - 137
Methylcyclohexane	2500	2360		ug/Kg		94	50 - 130
Methylene Chloride	2500	2210		ug/Kg		88	75 - 118
o-Xylene	2500	2400		ug/Kg		96	80 - 124
Styrene	2500	2470		ug/Kg		99	80 - 120
Tetrachloroethene	2500	2530		ug/Kg		101	73 - 133
Toluene	2500	2450		ug/Kg		98	75 - 124
trans-1,2-Dichloroethene	2500	2440		ug/Kg		97	74 - 129
trans-1,3-Dichloropropene	2500	2140		ug/Kg		86	73 - 120
Trichloroethene	2500	2370		ug/Kg		95	75 - 131
Trichlorofluoromethane	2500	1920		ug/Kg		77	29 - 158
Vinyl chloride	2500	2280		ug/Kg		91	59 - 124
Xylenes, Total	5000	4840		ug/Kg		97	78 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		53 - 146
4-Bromofluorobenzene (Surr)	94		49 - 148
Dibromofluoromethane (Surr)	92		60 - 140
Toluene-d8 (Surr)	98		50 - 149

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-699565/1-A
Matrix: Solid
Analysis Batch: 699589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699565

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		99	55	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2-Chloronaphthalene	ND		170	28	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2-Chlorophenol	ND		330	31	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2-Methylnaphthalene	ND		170	34	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2-Methylphenol	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2-Nitroaniline	ND		330	25	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
2-Nitrophenol	ND		170	48	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		01/31/24 16:11	02/01/24 17:24	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-699565/1-A
Matrix: Solid
Analysis Batch: 699589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699565

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
3-Nitroaniline	ND		330	47	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Chloroaniline	ND		170	42	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Methylphenol	ND		330	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Nitroaniline	ND		330	88	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
4-Nitrophenol	ND		330	120	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Acenaphthene	ND		170	25	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Acenaphthylene	ND		170	22	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Acetophenone	ND		170	23	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Anthracene	ND		170	42	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Atrazine	ND		170	59	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Benzaldehyde	ND		170	130	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Benzo[a]anthracene	ND		170	17	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Benzo[a]pyrene	ND		170	25	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Biphenyl	ND		170	25	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Caprolactam	ND		170	51	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Carbazole	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Chrysene	ND		170	38	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Dibenzofuran	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Diethyl phthalate	ND		170	22	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Dimethyl phthalate	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Fluoranthene	ND		170	18	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Fluorene	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Hexachlorobenzene	ND		170	23	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Hexachlorobutadiene	ND		170	25	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Hexachloroethane	ND		170	22	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Isophorone	ND		170	36	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Naphthalene	ND		170	22	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Nitrobenzene	ND		170	19	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Pentachlorophenol	ND		330	170	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Phenanthrene	ND		170	25	ug/Kg		01/31/24 16:11	02/01/24 17:24	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-699565/1-A
Matrix: Solid
Analysis Batch: 699589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699565

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	ND		170	26	ug/Kg		01/31/24 16:11	02/01/24 17:24	1
Pyrene	ND		170	20	ug/Kg		01/31/24 16:11	02/01/24 17:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	88		54 - 120	01/31/24 16:11	02/01/24 17:24	1
2-Fluorobiphenyl (Surr)	103		60 - 120	01/31/24 16:11	02/01/24 17:24	1
2-Fluorophenol (Surr)	94		52 - 120	01/31/24 16:11	02/01/24 17:24	1
Nitrobenzene-d5 (Surr)	103		53 - 120	01/31/24 16:11	02/01/24 17:24	1
Phenol-d5 (Surr)	102		54 - 120	01/31/24 16:11	02/01/24 17:24	1
p-Terphenyl-d14 (Surr)	120		79 - 130	01/31/24 16:11	02/01/24 17:24	1

Lab Sample ID: LCS 480-699565/2-A
Matrix: Solid
Analysis Batch: 699589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699565

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,4-Dioxane	1640	816		ug/Kg		50	23 - 120
2,4,5-Trichlorophenol	1640	1550		ug/Kg		95	59 - 126
2,4,6-Trichlorophenol	1640	1570		ug/Kg		96	59 - 123
2,4-Dichlorophenol	1640	1570		ug/Kg		96	61 - 120
2,4-Dimethylphenol	1640	1420		ug/Kg		87	59 - 120
2,4-Dinitrophenol	3270	2350		ug/Kg		72	41 - 146
2,4-Dinitrotoluene	1640	1420		ug/Kg		87	63 - 120
2,6-Dinitrotoluene	1640	1490		ug/Kg		91	66 - 120
2-Chloronaphthalene	1640	1610		ug/Kg		98	57 - 120
2-Chlorophenol	1640	1510		ug/Kg		93	53 - 120
2-Methylnaphthalene	1640	1500		ug/Kg		91	59 - 120
2-Methylphenol	1640	1480		ug/Kg		90	54 - 120
2-Nitroaniline	1640	1650		ug/Kg		101	61 - 120
2-Nitrophenol	1640	1520		ug/Kg		93	56 - 120
3,3'-Dichlorobenzidine	3270	2780		ug/Kg		85	54 - 120
3-Nitroaniline	1640	1230		ug/Kg		75	48 - 120
4,6-Dinitro-2-methylphenol	3270	2900		ug/Kg		89	49 - 122
4-Bromophenyl phenyl ether	1640	1620		ug/Kg		99	58 - 120
4-Chloro-3-methylphenol	1640	1460		ug/Kg		89	61 - 120
4-Chloroaniline	1640	1230		ug/Kg		75	38 - 120
4-Chlorophenyl phenyl ether	1640	1450		ug/Kg		89	63 - 124
4-Methylphenol	1640	1540		ug/Kg		94	55 - 120
4-Nitroaniline	1640	1360		ug/Kg		83	56 - 120
4-Nitrophenol	3270	2910		ug/Kg		89	43 - 147
Acenaphthene	1640	1620		ug/Kg		99	62 - 120
Acenaphthylene	1640	1580		ug/Kg		97	58 - 121
Acetophenone	1640	1510		ug/Kg		92	54 - 120
Anthracene	1640	1600		ug/Kg		98	62 - 120
Atrazine	3270	2530		ug/Kg		77	60 - 127
Benzaldehyde	3270	2470		ug/Kg		75	10 - 150
Benzo[a]anthracene	1640	1680		ug/Kg		103	65 - 120
Benzo[a]pyrene	1640	1640		ug/Kg		101	64 - 120

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-699565/2-A
Matrix: Solid
Analysis Batch: 699589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	1640	1650		ug/Kg		101	64 - 120
Benzo[g,h,i]perylene	1640	1750		ug/Kg		107	45 - 145
Benzo[k]fluoranthene	1640	1540		ug/Kg		94	65 - 120
Biphenyl	1640	1640		ug/Kg		101	59 - 120
bis (2-chloroisopropyl) ether	1640	1570		ug/Kg		96	44 - 120
Bis(2-chloroethoxy)methane	1640	1550		ug/Kg		95	55 - 120
Bis(2-chloroethyl)ether	1640	1460		ug/Kg		89	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1910		ug/Kg		116	61 - 133
Butyl benzyl phthalate	1640	1940		ug/Kg		119	61 - 129
Caprolactam	3270	2600		ug/Kg		79	47 - 120
Carbazole	1640	1550		ug/Kg		95	65 - 120
Chrysene	1640	1650		ug/Kg		101	64 - 120
Dibenz(a,h)anthracene	1640	1690		ug/Kg		103	54 - 132
Dibenzofuran	1640	1550		ug/Kg		94	63 - 120
Diethyl phthalate	1640	1490		ug/Kg		91	66 - 120
Dimethyl phthalate	1640	1550		ug/Kg		95	65 - 124
Di-n-butyl phthalate	1640	1560		ug/Kg		96	58 - 130
Di-n-octyl phthalate	1640	1730		ug/Kg		105	57 - 133
Fluoranthene	1640	1410		ug/Kg		86	62 - 120
Fluorene	1640	1500		ug/Kg		92	63 - 120
Hexachlorobenzene	1640	1580		ug/Kg		96	60 - 120
Hexachlorobutadiene	1640	1400		ug/Kg		85	45 - 120
Hexachlorocyclopentadiene	1640	1220		ug/Kg		74	47 - 120
Hexachloroethane	1640	1380		ug/Kg		84	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1720		ug/Kg		105	56 - 134
Isophorone	1640	1590		ug/Kg		97	56 - 120
Naphthalene	1640	1480		ug/Kg		90	55 - 120
Nitrobenzene	1640	1510		ug/Kg		92	54 - 120
N-Nitrosodi-n-propylamine	1640	1600		ug/Kg		98	52 - 120
N-Nitrosodiphenylamine	1640	1760		ug/Kg		108	51 - 128
Pentachlorophenol	3270	2570		ug/Kg		79	10 - 120
Phenanthrene	1640	1630		ug/Kg		99	60 - 120
Phenol	1640	1510		ug/Kg		92	53 - 120
Pyrene	1640	2010		ug/Kg		123	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	94		54 - 120
2-Fluorobiphenyl (Surr)	101		60 - 120
2-Fluorophenol (Surr)	89		52 - 120
Nitrobenzene-d5 (Surr)	95		53 - 120
Phenol-d5 (Surr)	96		54 - 120
p-Terphenyl-d14 (Surr)	118		79 - 130

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-216732-4 MS

Matrix: Solid

Analysis Batch: 699589

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1,4-Dioxane	ND		1970	1040		ug/Kg	*	53		13 - 120
2,4,5-Trichlorophenol	ND		1970	1890		ug/Kg	*	96		46 - 120
2,4,6-Trichlorophenol	ND		1970	2010		ug/Kg	*	102		41 - 123
2,4-Dichlorophenol	ND		1970	1960		ug/Kg	*	100		45 - 120
2,4-Dimethylphenol	ND		1970	1790		ug/Kg	*	91		52 - 120
2,4-Dinitrophenol	ND		3930	3010		ug/Kg	*	76		41 - 146
2,4-Dinitrotoluene	ND		1970	1880		ug/Kg	*	95		63 - 125
2,6-Dinitrotoluene	ND		1970	1950		ug/Kg	*	99		66 - 120
2-Chloronaphthalene	ND		1970	2030		ug/Kg	*	103		57 - 120
2-Chlorophenol	ND		1970	1800		ug/Kg	*	91		43 - 120
2-Methylnaphthalene	240		1970	2140		ug/Kg	*	97		55 - 120
2-Methylphenol	35	J	1970	1720		ug/Kg	*	86		48 - 120
2-Nitroaniline	ND		1970	2120		ug/Kg	*	108		61 - 120
2-Nitrophenol	ND		1970	1970		ug/Kg	*	100		37 - 120
3,3'-Dichlorobenzidine	ND		3930	3640		ug/Kg	*	92		37 - 126
3-Nitroaniline	ND		1970	1660		ug/Kg	*	84		48 - 120
4,6-Dinitro-2-methylphenol	ND		3930	3940		ug/Kg	*	100		23 - 149
4-Bromophenyl phenyl ether	ND		1970	2170		ug/Kg	*	110		58 - 120
4-Chloro-3-methylphenol	ND		1970	1810		ug/Kg	*	92		49 - 125
4-Chloroaniline	ND		1970	1560		ug/Kg	*	79		38 - 120
4-Chlorophenyl phenyl ether	ND		1970	1820		ug/Kg	*	92		63 - 124
4-Methylphenol	66	J	1970	1820		ug/Kg	*	89		50 - 120
4-Nitroaniline	ND		1970	1660		ug/Kg	*	84		47 - 120
4-Nitrophenol	ND		3930	3980		ug/Kg	*	101		31 - 147
Acenaphthene	59	J	1970	2060		ug/Kg	*	102		60 - 120
Acenaphthylene	140	J	1970	2160		ug/Kg	*	103		58 - 121
Acetophenone	ND		1970	1790		ug/Kg	*	91		47 - 120
Anthracene	140	J	1970	2210		ug/Kg	*	106		62 - 120
Atrazine	ND		3930	3120		ug/Kg	*	79		60 - 150
Benzaldehyde	ND		3930	3040		ug/Kg	*	77		10 - 150
Benzo[a]anthracene	270		1970	2500		ug/Kg	*	113		65 - 120
Benzo[a]pyrene	290		1970	2470		ug/Kg	*	111		64 - 120
Benzo[b]fluoranthene	360		1970	2380		ug/Kg	*	102		10 - 150
Benzo[g,h,i]perylene	270		1970	2810		ug/Kg	*	129		45 - 145
Benzo[k]fluoranthene	160	J	1970	2300		ug/Kg	*	109		23 - 150
Biphenyl	41	J	1970	2130		ug/Kg	*	106		58 - 120
bis (2-chloroisopropyl) ether	ND		1970	1830		ug/Kg	*	93		31 - 120
Bis(2-chloroethoxy)methane	ND		1970	1970		ug/Kg	*	100		52 - 120
Bis(2-chloroethyl)ether	ND		1970	1810		ug/Kg	*	92		45 - 120
Bis(2-ethylhexyl) phthalate	ND		1970	2280		ug/Kg	*	116		61 - 133
Butyl benzyl phthalate	ND	F1	1970	2400	F1	ug/Kg	*	122		61 - 120
Caprolactam	ND		3930	3320		ug/Kg	*	84		37 - 133
Carbazole	56	J	1970	2100		ug/Kg	*	104		59 - 120
Chrysene	260		1970	2390		ug/Kg	*	108		64 - 120
Dibenz(a,h)anthracene	ND		1970	2430		ug/Kg	*	123		54 - 132
Dibenzofuran	110	J	1970	2090		ug/Kg	*	101		62 - 120
Diethyl phthalate	ND		1970	1880		ug/Kg	*	96		66 - 120
Dimethyl phthalate	ND		1970	2020		ug/Kg	*	103		65 - 124

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-216732-4 MS

Matrix: Solid

Analysis Batch: 699589

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Di-n-butyl phthalate	ND		1970	1960		ug/Kg	☼	99		58 - 130
Di-n-octyl phthalate	ND		1970	2270		ug/Kg	☼	115		57 - 133
Fluoranthene	470		1970	2340		ug/Kg	☼	95		62 - 120
Fluorene	150	J	1970	2040		ug/Kg	☼	96		63 - 120
Hexachlorobenzene	ND		1970	1990		ug/Kg	☼	101		60 - 120
Hexachlorobutadiene	ND		1970	1740		ug/Kg	☼	88		45 - 120
Hexachlorocyclopentadiene	ND		1970	1530		ug/Kg	☼	78		31 - 120
Hexachloroethane	ND		1970	1720		ug/Kg	☼	87		21 - 120
Indeno[1,2,3-cd]pyrene	200	J	1970	2630		ug/Kg	☼	123		56 - 134
Isophorone	ND		1970	2020		ug/Kg	☼	103		56 - 120
Naphthalene	8600	E	1970	11000	E 4	ug/Kg	☼	124		46 - 120
Nitrobenzene	ND		1970	1980		ug/Kg	☼	101		49 - 120
N-Nitrosodi-n-propylamine	ND		1970	1850		ug/Kg	☼	94		46 - 120
N-Nitrosodiphenylamine	ND		1970	2390		ug/Kg	☼	121		20 - 128
Pentachlorophenol	ND		3930	3520		ug/Kg	☼	89		10 - 136
Phenanthrene	490		1970	2760		ug/Kg	☼	115		60 - 122
Phenol	ND		1970	1860		ug/Kg	☼	95		50 - 120
Pyrene	550		1970	3120		ug/Kg	☼	130		61 - 133

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	105		54 - 120
2-Fluorobiphenyl (Surr)	105		60 - 120
2-Fluorophenol (Surr)	89		52 - 120
Nitrobenzene-d5 (Surr)	101		53 - 120
Phenol-d5 (Surr)	94		54 - 120
p-Terphenyl-d14 (Surr)	113		79 - 130

Lab Sample ID: 480-216732-4 MSD

Matrix: Solid

Analysis Batch: 699589

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,4-Dioxane	ND		2010	1020		ug/Kg	☼	51		13 - 120	2	50
2,4,5-Trichlorophenol	ND		2010	1920		ug/Kg	☼	95		46 - 120	2	18
2,4,6-Trichlorophenol	ND		2010	1990		ug/Kg	☼	99		41 - 123	1	19
2,4-Dichlorophenol	ND		2010	1880		ug/Kg	☼	93		45 - 120	4	19
2,4-Dimethylphenol	ND		2010	1750		ug/Kg	☼	87		52 - 120	2	42
2,4-Dinitrophenol	ND		4030	2630		ug/Kg	☼	65		41 - 146	13	22
2,4-Dinitrotoluene	ND		2010	1720		ug/Kg	☼	85		63 - 125	8	20
2,6-Dinitrotoluene	ND		2010	1900		ug/Kg	☼	94		66 - 120	2	15
2-Chloronaphthalene	ND		2010	2060		ug/Kg	☼	102		57 - 120	2	21
2-Chlorophenol	ND		2010	1780		ug/Kg	☼	88		43 - 120	1	25
2-Methylnaphthalene	240		2010	2030		ug/Kg	☼	89		55 - 120	5	21
2-Methylphenol	35	J	2010	1700		ug/Kg	☼	83		48 - 120	1	27
2-Nitroaniline	ND		2010	2080		ug/Kg	☼	103		61 - 120	2	15
2-Nitrophenol	ND		2010	1930		ug/Kg	☼	96		37 - 120	2	18
3,3'-Dichlorobenzidine	ND		4030	3500		ug/Kg	☼	87		37 - 126	4	25
3-Nitroaniline	ND		2010	1500		ug/Kg	☼	74		48 - 120	10	19

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-216732-4 MSD

Matrix: Solid

Analysis Batch: 699589

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4,6-Dinitro-2-methylphenol	ND		4030	3580		ug/Kg	*	89	23 - 149	10	15
4-Bromophenyl phenyl ether	ND		2010	2050		ug/Kg	*	102	58 - 120	5	15
4-Chloro-3-methylphenol	ND		2010	1630		ug/Kg	*	81	49 - 125	10	27
4-Chloroaniline	ND		2010	1390		ug/Kg	*	69	38 - 120	12	22
4-Chlorophenyl phenyl ether	ND		2010	1740		ug/Kg	*	86	63 - 124	5	16
4-Methylphenol	66	J	2010	1810		ug/Kg	*	87	50 - 120	0	24
4-Nitroaniline	ND		2010	1610		ug/Kg	*	80	47 - 120	3	24
4-Nitrophenol	ND		4030	3740		ug/Kg	*	93	31 - 147	6	25
Acenaphthene	59	J	2010	2010		ug/Kg	*	97	60 - 120	2	35
Acenaphthylene	140	J	2010	2130		ug/Kg	*	99	58 - 121	1	18
Acetophenone	ND		2010	1800		ug/Kg	*	89	47 - 120	0	20
Anthracene	140	J	2010	2150		ug/Kg	*	100	62 - 120	3	15
Atrazine	ND		4030	2810		ug/Kg	*	70	60 - 150	11	20
Benzaldehyde	ND		4030	2920		ug/Kg	*	73	10 - 150	4	20
Benzo[a]anthracene	270		2010	2390		ug/Kg	*	105	65 - 120	4	15
Benzo[a]pyrene	290		2010	2410		ug/Kg	*	105	64 - 120	3	15
Benzo[b]fluoranthene	360		2010	2220		ug/Kg	*	92	10 - 150	7	15
Benzo[g,h,i]perylene	270		2010	2810		ug/Kg	*	126	45 - 145	0	15
Benzo[k]fluoranthene	160	J	2010	2270		ug/Kg	*	105	23 - 150	1	22
Biphenyl	41	J	2010	2180		ug/Kg	*	106	58 - 120	2	20
bis (2-chloroisopropyl) ether	ND		2010	1810		ug/Kg	*	90	31 - 120	1	24
Bis(2-chloroethoxy)methane	ND		2010	1900		ug/Kg	*	94	52 - 120	4	17
Bis(2-chloroethyl)ether	ND		2010	1740		ug/Kg	*	86	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND		2010	2260		ug/Kg	*	112	61 - 133	1	15
Butyl benzyl phthalate	ND	F1	2010	2290		ug/Kg	*	114	61 - 120	5	16
Caprolactam	ND		4030	2860		ug/Kg	*	71	37 - 133	15	20
Carbazole	56	J	2010	2000		ug/Kg	*	96	59 - 120	5	20
Chrysene	260		2010	2320		ug/Kg	*	102	64 - 120	3	15
Dibenz(a,h)anthracene	ND		2010	2400		ug/Kg	*	119	54 - 132	1	15
Dibenzofuran	110	J	2010	2030		ug/Kg	*	95	62 - 120	3	15
Diethyl phthalate	ND		2010	1780		ug/Kg	*	88	66 - 120	6	15
Dimethyl phthalate	ND		2010	1960		ug/Kg	*	97	65 - 124	3	15
Di-n-butyl phthalate	ND		2010	1880		ug/Kg	*	93	58 - 130	4	15
Di-n-octyl phthalate	ND		2010	2170		ug/Kg	*	108	57 - 133	4	16
Fluoranthene	470		2010	2280		ug/Kg	*	90	62 - 120	2	15
Fluorene	150	J	2010	1970		ug/Kg	*	90	63 - 120	4	15
Hexachlorobenzene	ND		2010	1900		ug/Kg	*	94	60 - 120	5	15
Hexachlorobutadiene	ND		2010	1750		ug/Kg	*	87	45 - 120	1	44
Hexachlorocyclopentadiene	ND		2010	1550		ug/Kg	*	77	31 - 120	1	49
Hexachloroethane	ND		2010	1730		ug/Kg	*	86	21 - 120	1	46
Indeno[1,2,3-cd]pyrene	200	J	2010	2600		ug/Kg	*	119	56 - 134	1	15
Isophorone	ND		2010	1930		ug/Kg	*	96	56 - 120	5	17
Naphthalene	8600	E	2010	10700	E 4	ug/Kg	*	105	46 - 120	3	29
Nitrobenzene	ND		2010	1940		ug/Kg	*	96	49 - 120	2	24
N-Nitrosodi-n-propylamine	ND		2010	1820		ug/Kg	*	90	46 - 120	2	31
N-Nitrosodiphenylamine	ND		2010	2320		ug/Kg	*	115	20 - 128	3	15
Pentachlorophenol	ND		4030	3320		ug/Kg	*	82	10 - 136	6	35
Phenanthrene	490		2010	2660		ug/Kg	*	108	60 - 122	4	15
Phenol	ND		2010	1810		ug/Kg	*	90	50 - 120	3	35

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-216732-4 MSD

Matrix: Solid

Analysis Batch: 699589

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	550		2010	2990		ug/Kg	☼	121	61 - 133	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	98		54 - 120								
2-Fluorobiphenyl (Surr)	105		60 - 120								
2-Fluorophenol (Surr)	87		52 - 120								
Nitrobenzene-d5 (Surr)	98		53 - 120								
Phenol-d5 (Surr)	90		54 - 120								
p-Terphenyl-d14 (Surr)	106		79 - 130								

Lab Sample ID: MB 480-699657/1-A

Matrix: Water

Analysis Batch: 699837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 699657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.1	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/01/24 13:52	02/05/24 20:56	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/01/24 13:52	02/05/24 20:56	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/01/24 13:52	02/05/24 20:56	1
2-Chlorophenol	ND		5.0	0.53	ug/L		02/01/24 13:52	02/05/24 20:56	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/01/24 13:52	02/05/24 20:56	1
2-Methylphenol	ND		5.0	0.40	ug/L		02/01/24 13:52	02/05/24 20:56	1
2-Nitroaniline	ND		10	0.42	ug/L		02/01/24 13:52	02/05/24 20:56	1
2-Nitrophenol	ND		5.0	0.48	ug/L		02/01/24 13:52	02/05/24 20:56	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/01/24 13:52	02/05/24 20:56	1
3-Nitroaniline	ND		10	0.48	ug/L		02/01/24 13:52	02/05/24 20:56	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Methylphenol	ND		10	0.36	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Nitroaniline	ND		10	0.25	ug/L		02/01/24 13:52	02/05/24 20:56	1
4-Nitrophenol	ND		10	1.5	ug/L		02/01/24 13:52	02/05/24 20:56	1
Acenaphthene	ND		5.0	0.41	ug/L		02/01/24 13:52	02/05/24 20:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/01/24 13:52	02/05/24 20:56	1
Acetophenone	ND		5.0	0.54	ug/L		02/01/24 13:52	02/05/24 20:56	1
Anthracene	ND		5.0	0.28	ug/L		02/01/24 13:52	02/05/24 20:56	1
Atrazine	ND		5.0	0.46	ug/L		02/01/24 13:52	02/05/24 20:56	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/01/24 13:52	02/05/24 20:56	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		02/01/24 13:52	02/05/24 20:56	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		02/01/24 13:52	02/05/24 20:56	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		02/01/24 13:52	02/05/24 20:56	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-699657/1-A
Matrix: Water
Analysis Batch: 699837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699657

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		02/01/24 13:52	02/05/24 20:56	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		02/01/24 13:52	02/05/24 20:56	1
Biphenyl	ND		5.0	0.65	ug/L		02/01/24 13:52	02/05/24 20:56	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/01/24 13:52	02/05/24 20:56	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/01/24 13:52	02/05/24 20:56	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/01/24 13:52	02/05/24 20:56	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/01/24 13:52	02/05/24 20:56	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/01/24 13:52	02/05/24 20:56	1
Caprolactam	ND		5.0	2.2	ug/L		02/01/24 13:52	02/05/24 20:56	1
Carbazole	ND		5.0	0.30	ug/L		02/01/24 13:52	02/05/24 20:56	1
Chrysene	ND		5.0	0.33	ug/L		02/01/24 13:52	02/05/24 20:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/01/24 13:52	02/05/24 20:56	1
Dibenzofuran	ND		10	0.51	ug/L		02/01/24 13:52	02/05/24 20:56	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/01/24 13:52	02/05/24 20:56	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/01/24 13:52	02/05/24 20:56	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/01/24 13:52	02/05/24 20:56	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/01/24 13:52	02/05/24 20:56	1
Fluoranthene	ND		5.0	0.40	ug/L		02/01/24 13:52	02/05/24 20:56	1
Fluorene	ND		5.0	0.36	ug/L		02/01/24 13:52	02/05/24 20:56	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/01/24 13:52	02/05/24 20:56	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/01/24 13:52	02/05/24 20:56	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/01/24 13:52	02/05/24 20:56	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/01/24 13:52	02/05/24 20:56	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		02/01/24 13:52	02/05/24 20:56	1
Isophorone	ND		5.0	0.43	ug/L		02/01/24 13:52	02/05/24 20:56	1
Naphthalene	ND		5.0	0.76	ug/L		02/01/24 13:52	02/05/24 20:56	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/01/24 13:52	02/05/24 20:56	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/01/24 13:52	02/05/24 20:56	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/01/24 13:52	02/05/24 20:56	1
Pentachlorophenol	ND		10	2.2	ug/L		02/01/24 13:52	02/05/24 20:56	1
Phenanthrene	ND		5.0	0.44	ug/L		02/01/24 13:52	02/05/24 20:56	1
Phenol	ND		5.0	0.39	ug/L		02/01/24 13:52	02/05/24 20:56	1
Pyrene	ND		5.0	0.34	ug/L		02/01/24 13:52	02/05/24 20:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	60		41 - 120	02/01/24 13:52	02/05/24 20:56	1
2-Fluorobiphenyl (Surr)	110		48 - 120	02/01/24 13:52	02/05/24 20:56	1
2-Fluorophenol (Surr)	75		35 - 120	02/01/24 13:52	02/05/24 20:56	1
Nitrobenzene-d5 (Surr)	88		46 - 120	02/01/24 13:52	02/05/24 20:56	1
Phenol-d5 (Surr)	52		22 - 120	02/01/24 13:52	02/05/24 20:56	1
p-Terphenyl-d14 (Surr)	135		60 - 148	02/01/24 13:52	02/05/24 20:56	1

Lab Sample ID: LCS 480-699657/2-A
Matrix: Water
Analysis Batch: 699837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-699657/2-A
Matrix: Water
Analysis Batch: 699837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	32.0	37.4		ug/L		117	65 - 126
2,4,6-Trichlorophenol	32.0	31.9		ug/L		100	64 - 120
2,4-Dichlorophenol	32.0	29.8		ug/L		93	63 - 120
2,4-Dimethylphenol	32.0	30.3		ug/L		95	47 - 120
2,4-Dinitrophenol	64.0	67.8		ug/L		106	31 - 137
2,4-Dinitrotoluene	32.0	32.4		ug/L		101	69 - 120
2,6-Dinitrotoluene	32.0	32.1		ug/L		100	68 - 120
2-Chloronaphthalene	32.0	30.4		ug/L		95	58 - 120
2-Chlorophenol	32.0	30.4		ug/L		95	48 - 120
2-Methylnaphthalene	32.0	28.4		ug/L		89	59 - 120
2-Methylphenol	32.0	27.4		ug/L		86	39 - 120
2-Nitroaniline	32.0	30.9		ug/L		96	54 - 127
2-Nitrophenol	32.0	29.9		ug/L		94	52 - 125
3,3'-Dichlorobenzidine	64.0	50.8		ug/L		79	49 - 135
3-Nitroaniline	32.0	21.4		ug/L		67	51 - 120
4,6-Dinitro-2-methylphenol	64.0	72.6		ug/L		114	46 - 136
4-Bromophenyl phenyl ether	32.0	31.7		ug/L		99	65 - 120
4-Chloro-3-methylphenol	32.0	27.7		ug/L		87	61 - 123
4-Chloroaniline	32.0	21.7		ug/L		68	30 - 120
4-Chlorophenyl phenyl ether	32.0	30.1		ug/L		94	62 - 120
4-Methylphenol	32.0	28.9		ug/L		90	29 - 131
4-Nitroaniline	32.0	34.5		ug/L		108	65 - 120
4-Nitrophenol	64.0	49.1		ug/L		77	45 - 120
Acenaphthene	32.0	32.9		ug/L		103	60 - 120
Acenaphthylene	32.0	32.4		ug/L		101	63 - 120
Acetophenone	32.0	31.2		ug/L		98	45 - 120
Anthracene	32.0	36.0		ug/L		113	67 - 120
Atrazine	64.0	77.9		ug/L		122	71 - 130
Benzaldehyde	64.0	61.0		ug/L		95	10 - 140
Benzo(a)anthracene	32.0	32.9		ug/L		103	70 - 121
Benzo[a]pyrene	32.0	34.3		ug/L		107	60 - 123
Benzo[b]fluoranthene	32.0	35.7		ug/L		111	66 - 126
Benzo[g,h,i]perylene	32.0	33.5		ug/L		105	66 - 150
Benzo[k]fluoranthene	32.0	34.9		ug/L		109	65 - 124
Biphenyl	32.0	31.5		ug/L		98	59 - 120
bis (2-chloroisopropyl) ether	32.0	29.3		ug/L		91	21 - 136
Bis(2-chloroethoxy)methane	32.0	30.2		ug/L		94	50 - 128
Bis(2-chloroethyl)ether	32.0	30.9		ug/L		97	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.7		ug/L		108	63 - 139
Butyl benzyl phthalate	32.0	34.0		ug/L		106	70 - 129
Caprolactam	64.0	19.5		ug/L		30	22 - 120
Carbazole	32.0	37.6		ug/L		118	66 - 123
Chrysene	32.0	34.8		ug/L		109	69 - 120
Dibenz(a,h)anthracene	32.0	36.5		ug/L		114	65 - 135
Dibenzofuran	32.0	31.1		ug/L		97	66 - 120
Diethyl phthalate	32.0	35.3		ug/L		110	59 - 127
Dimethyl phthalate	32.0	33.6		ug/L		105	68 - 120
Di-n-butyl phthalate	32.0	36.7		ug/L		115	69 - 131
Di-n-octyl phthalate	32.0	34.0		ug/L		106	63 - 140

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-699657/2-A
Matrix: Water
Analysis Batch: 699837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	32.0	37.2		ug/L		116	69 - 126
Fluorene	32.0	34.6		ug/L		108	66 - 120
Hexachlorobenzene	32.0	36.2		ug/L		113	61 - 120
Hexachlorobutadiene	32.0	20.2		ug/L		63	35 - 120
Hexachlorocyclopentadiene	32.0	15.7		ug/L		49	31 - 120
Hexachloroethane	32.0	23.8		ug/L		75	33 - 120
Indeno[1,2,3-cd]pyrene	32.0	37.2		ug/L		116	69 - 146
Isophorone	32.0	30.5		ug/L		95	55 - 120
Naphthalene	32.0	28.9		ug/L		90	57 - 120
Nitrobenzene	32.0	29.5		ug/L		92	53 - 123
N-Nitrosodi-n-propylamine	32.0	31.4		ug/L		98	32 - 140
N-Nitrosodiphenylamine	32.0	33.3		ug/L		104	61 - 120
Pentachlorophenol	64.0	52.2		ug/L		82	10 - 136
Phenanthrene	32.0	32.9		ug/L		103	68 - 120
Phenol	32.0	19.1		ug/L		60	17 - 120
Pyrene	32.0	33.9		ug/L		106	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		41 - 120
2-Fluorobiphenyl (Surr)	103		48 - 120
2-Fluorophenol (Surr)	71		35 - 120
Nitrobenzene-d5 (Surr)	94		46 - 120
Phenol-d5 (Surr)	55		22 - 120
p-Terphenyl-d14 (Surr)	108		60 - 148

Lab Sample ID: MB 480-699753/1-A
Matrix: Solid
Analysis Batch: 699859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00045	mg/L		02/02/24 13:57	02/05/24 14:59	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		02/02/24 13:57	02/05/24 14:59	1
2,4,6-Trichlorophenol	ND		0.0050	0.00060	mg/L		02/02/24 13:57	02/05/24 14:59	1
2,4-Dinitrotoluene	ND		0.0050	0.00043	mg/L		02/02/24 13:57	02/05/24 14:59	1
3-Methylphenol	ND		0.010	0.00040	mg/L		02/02/24 13:57	02/05/24 14:59	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		02/02/24 13:57	02/05/24 14:59	1
Pyridine	ND		0.025	0.00040	mg/L		02/02/24 13:57	02/05/24 14:59	1
4-Methylphenol	ND		0.010	0.00035	mg/L		02/02/24 13:57	02/05/24 14:59	1
Hexachlorobenzene	ND		0.0050	0.00050	mg/L		02/02/24 13:57	02/05/24 14:59	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		02/02/24 13:57	02/05/24 14:59	1
Hexachloroethane	ND		0.0050	0.00058	mg/L		02/02/24 13:57	02/05/24 14:59	1
Nitrobenzene	ND		0.0050	0.00028	mg/L		02/02/24 13:57	02/05/24 14:59	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		02/02/24 13:57	02/05/24 14:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		41 - 120	02/02/24 13:57	02/05/24 14:59	1
2-Fluorobiphenyl (Surr)	88		48 - 120	02/02/24 13:57	02/05/24 14:59	1
2-Fluorophenol (Surr)	51		35 - 120	02/02/24 13:57	02/05/24 14:59	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-699753/1-A
Matrix: Solid
Analysis Batch: 699859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699753

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	90		46 - 120	02/02/24 13:57	02/05/24 14:59	1
Phenol-d5 (Surr)	35		22 - 120	02/02/24 13:57	02/05/24 14:59	1
p-Terphenyl-d14 (Surr)	99		60 - 148	02/02/24 13:57	02/05/24 14:59	1

Lab Sample ID: LCS 480-699753/2-A
Matrix: Solid
Analysis Batch: 699859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
2,4,5-Trichlorophenol	0.0500	0.0479		mg/L		96	65 - 126	
2,4,6-Trichlorophenol	0.0500	0.0479		mg/L		96	64 - 120	
2,4-Dinitrotoluene	0.0500	0.0533		mg/L		107	69 - 120	
3-Methylphenol	0.0500	0.0425		mg/L		85	39 - 120	
2-Methylphenol	0.0500	0.0421		mg/L		84	39 - 120	
Pyridine	0.100	0.0437		mg/L		44	10 - 120	
4-Methylphenol	0.0500	0.0425		mg/L		85	29 - 131	
Hexachlorobenzene	0.0500	0.0479		mg/L		96	61 - 120	
Hexachlorobutadiene	0.0500	0.0339		mg/L		68	35 - 120	
Hexachloroethane	0.0500	0.0327		mg/L		65	33 - 120	
Nitrobenzene	0.0500	0.0473		mg/L		95	53 - 123	
Pentachlorophenol	0.100	0.0909		mg/L		91	10 - 136	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	96		41 - 120
2-Fluorobiphenyl (Surr)	97		48 - 120
2-Fluorophenol (Surr)	56		35 - 120
Nitrobenzene-d5 (Surr)	97		46 - 120
Phenol-d5 (Surr)	43		22 - 120
p-Terphenyl-d14 (Surr)	111		60 - 148

Lab Sample ID: LCSD 480-699753/3-A
Matrix: Solid
Analysis Batch: 699859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 699753

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD Limit
2,4,5-Trichlorophenol	0.0500	0.0489		mg/L		98	65 - 126	2	18
2,4,6-Trichlorophenol	0.0500	0.0459		mg/L		92	64 - 120	4	19
2,4-Dinitrotoluene	0.0500	0.0526		mg/L		105	69 - 120	1	20
3-Methylphenol	0.0500	0.0410		mg/L		82	39 - 120	4	30
2-Methylphenol	0.0500	0.0410		mg/L		82	39 - 120	3	27
Pyridine	0.100	0.0459		mg/L		46	10 - 120	5	49
4-Methylphenol	0.0500	0.0410		mg/L		82	29 - 131	4	24
Hexachlorobenzene	0.0500	0.0449		mg/L		90	61 - 120	6	15
Hexachlorobutadiene	0.0500	0.0325		mg/L		65	35 - 120	4	44
Hexachloroethane	0.0500	0.0333		mg/L		67	33 - 120	2	46
Nitrobenzene	0.0500	0.0450		mg/L		90	53 - 123	5	24

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-699753/3-A
Matrix: Solid
Analysis Batch: 699859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 699753

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Pentachlorophenol	0.100	0.0876		mg/L		88	10 - 136	4	37	
Surrogate										
	%Recovery	LCSD	Qualifier							Limits
2,4,6-Tribromophenol (Surr)	95									41 - 120
2-Fluorobiphenyl (Surr)	94									48 - 120
2-Fluorophenol (Surr)	55									35 - 120
Nitrobenzene-d5 (Surr)	94									46 - 120
Phenol-d5 (Surr)	42									22 - 120
p-Terphenyl-d14 (Surr)	105									60 - 148

Lab Sample ID: LB 480-699598/1-F
Matrix: Solid
Analysis Batch: 699859

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 699753

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		02/02/24 13:57	02/05/24 16:12	1	
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		02/02/24 13:57	02/05/24 16:12	1	
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		02/02/24 13:57	02/05/24 16:12	1	
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		02/02/24 13:57	02/05/24 16:12	1	
3-Methylphenol	ND		0.040	0.0016	mg/L		02/02/24 13:57	02/05/24 16:12	1	
2-Methylphenol	ND		0.020	0.0016	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Pyridine	ND		0.10	0.0016	mg/L		02/02/24 13:57	02/05/24 16:12	1	
4-Methylphenol	ND		0.040	0.0014	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Hexachlorobenzene	ND		0.020	0.0020	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Hexachloroethane	ND		0.020	0.0023	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Nitrobenzene	ND		0.020	0.0011	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Pentachlorophenol	ND		0.040	0.0088	mg/L		02/02/24 13:57	02/05/24 16:12	1	
Surrogate										
	%Recovery	LB	Qualifier				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol (Surr)	84						02/02/24 13:57	02/05/24 16:12	1	
2-Fluorobiphenyl (Surr)	94						02/02/24 13:57	02/05/24 16:12	1	
2-Fluorophenol (Surr)	54						02/02/24 13:57	02/05/24 16:12	1	
Nitrobenzene-d5 (Surr)	98						02/02/24 13:57	02/05/24 16:12	1	
Phenol-d5 (Surr)	38						02/02/24 13:57	02/05/24 16:12	1	
p-Terphenyl-d14 (Surr)	109						02/02/24 13:57	02/05/24 16:12	1	

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Lab Sample ID: 480-216732-4 MS
Matrix: Solid
Analysis Batch: 699735

Client Sample ID: F-LOA-04-01302024
Prep Type: Total/NA
Prep Batch: 699565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane - DL	ND	F1	1970	798	J	ug/Kg	✳	41	13 - 120
2,4,5-Trichlorophenol - DL	ND		1970	1720	J	ug/Kg	✳	87	46 - 120
2,4,6-Trichlorophenol - DL	ND		1970	1750	J	ug/Kg	✳	89	41 - 123
2,4-Dichlorophenol - DL	ND		1970	1680	J	ug/Kg	✳	86	45 - 120

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 480-216732-4 MS

Matrix: Solid

Analysis Batch: 699735

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
2,4-Dimethylphenol - DL	ND		1970	1540	J	ug/Kg	☼	78		52 - 120
2,4-Dinitrophenol - DL	ND		3930	ND		ug/Kg	☼	NC		41 - 146
2,4-Dinitrotoluene - DL	ND		1970	1840	J	ug/Kg	☼	94		63 - 125
2,6-Dinitrotoluene - DL	ND		1970	1880	J	ug/Kg	☼	96		66 - 120
2-Chloronaphthalene - DL	ND		1970	1680	J	ug/Kg	☼	85		57 - 120
2-Chlorophenol - DL	ND		1970	1590	J	ug/Kg	☼	81		43 - 120
2-Methylnaphthalene - DL	ND		1970	2060		ug/Kg	☼	104		55 - 120
2-Methylphenol - DL	ND		1970	1900	J	ug/Kg	☼	96		48 - 120
2-Nitroaniline - DL	ND		1970	1900	J	ug/Kg	☼	97		61 - 120
2-Nitrophenol - DL	ND		1970	1660	J	ug/Kg	☼	85		37 - 120
3,3'-Dichlorobenzidine - DL	ND		3930	3410	J	ug/Kg	☼	87		37 - 126
3-Nitroaniline - DL	ND		1970	1700	J	ug/Kg	☼	86		48 - 120
4,6-Dinitro-2-methylphenol - DL	ND		3930	3470	J	ug/Kg	☼	88		23 - 149
4-Bromophenyl phenyl ether - DL	ND		1970	1910	J	ug/Kg	☼	97		58 - 120
4-Chloro-3-methylphenol - DL	ND		1970	1900	J	ug/Kg	☼	97		49 - 125
4-Chloroaniline - DL	ND		1970	1380	J	ug/Kg	☼	70		38 - 120
4-Chlorophenyl phenyl ether - DL	ND		1970	1800	J	ug/Kg	☼	92		63 - 124
4-Methylphenol - DL	ND		1970	1970	J	ug/Kg	☼	100		50 - 120
4-Nitroaniline - DL	ND		1970	1910	J	ug/Kg	☼	97		47 - 120
4-Nitrophenol - DL	ND		3930	3520	J	ug/Kg	☼	89		31 - 147
Acenaphthene - DL	ND		1970	1920	J	ug/Kg	☼	98		60 - 120
Acenaphthylene - DL	ND		1970	2000		ug/Kg	☼	102		58 - 121
Acetophenone - DL	ND		1970	1830	J	ug/Kg	☼	93		47 - 120
Anthracene - DL	ND		1970	2000		ug/Kg	☼	101		62 - 120
Atrazine - DL	ND		3930	3420		ug/Kg	☼	87		60 - 150
Benzaldehyde - DL	ND		3930	2730		ug/Kg	☼	69		10 - 150
Benzo[a]anthracene - DL	280	J	1970	2200		ug/Kg	☼	97		65 - 120
Benzo[a]pyrene - DL	300	J	1970	2180		ug/Kg	☼	96		64 - 120
Benzo[b]fluoranthene - DL	520	J	1970	2150		ug/Kg	☼	83		10 - 150
Benzo[g,h,i]perylene - DL	230	J	1970	2010		ug/Kg	☼	91		45 - 145
Benzo[k]fluoranthene - DL	ND		1970	2230		ug/Kg	☼	113		23 - 150
Biphenyl - DL	ND		1970	1800	J	ug/Kg	☼	92		58 - 120
bis (2-chloroisopropyl) ether - DL	ND		1970	1880	J	ug/Kg	☼	95		31 - 120
Bis(2-chloroethoxy)methane - DL	ND		1970	1710	J	ug/Kg	☼	87		52 - 120
Bis(2-chloroethyl)ether - DL	ND		1970	1570	J	ug/Kg	☼	80		45 - 120
Bis(2-ethylhexyl) phthalate - DL	ND		1970	1990	J	ug/Kg	☼	101		61 - 133
Butyl benzyl phthalate - DL	ND		1970	2160		ug/Kg	☼	110		61 - 120
Caprolactam - DL	ND		3930	3600		ug/Kg	☼	92		37 - 133
Carbazole - DL	ND		1970	1980	J	ug/Kg	☼	100		59 - 120
Chrysene - DL	ND		1970	2120		ug/Kg	☼	108		64 - 120
Dibenz(a,h)anthracene - DL	ND		1970	1820	J	ug/Kg	☼	92		54 - 132
Dibenzofuran - DL	ND		1970	1930	J	ug/Kg	☼	98		62 - 120
Diethyl phthalate - DL	ND		1970	1920	J	ug/Kg	☼	97		66 - 120
Dimethyl phthalate - DL	ND		1970	1800	J	ug/Kg	☼	92		65 - 124
Di-n-butyl phthalate - DL	ND		1970	1950	J	ug/Kg	☼	99		58 - 130
Di-n-octyl phthalate - DL	ND		1970	2080		ug/Kg	☼	106		57 - 133
Fluoranthene - DL	570	J	1970	2530		ug/Kg	☼	100		62 - 120
Fluorene - DL	ND		1970	2020		ug/Kg	☼	102		63 - 120
Hexachlorobenzene - DL	ND		1970	1630	J	ug/Kg	☼	83		60 - 120

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 480-216732-4 MS

Matrix: Solid

Analysis Batch: 699735

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Hexachlorobutadiene - DL	ND		1970	1560	J	ug/Kg	☼	79		45 - 120
Hexachlorocyclopentadiene - DL	ND		1970	1390	J	ug/Kg	☼	71		31 - 120
Hexachloroethane - DL	ND		1970	1540	J	ug/Kg	☼	78		21 - 120
Indeno[1,2,3-cd]pyrene - DL	ND		1970	1930	J	ug/Kg	☼	98		56 - 134
Isophorone - DL	ND		1970	1700	J	ug/Kg	☼	86		56 - 120
Naphthalene - DL	8200		1970	10400	4	ug/Kg	☼	112		46 - 120
Nitrobenzene - DL	ND		1970	1640	J	ug/Kg	☼	83		49 - 120
N-Nitrosodi-n-propylamine - DL	ND		1970	1790	J	ug/Kg	☼	91		46 - 120
N-Nitrosodiphenylamine - DL	ND		1970	1740	J	ug/Kg	☼	88		20 - 128
Pentachlorophenol - DL	ND		3930	3620	J	ug/Kg	☼	92		10 - 136
Phenanthrene - DL	490	J	1970	2490		ug/Kg	☼	102		60 - 122
Phenol - DL	ND		1970	1690	J	ug/Kg	☼	86		50 - 120
Pyrene - DL	490	J	1970	2520		ug/Kg	☼	103		61 - 133

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr) - DL	91		54 - 120
2-Fluorobiphenyl (Surr) - DL	88		60 - 120
2-Fluorophenol (Surr) - DL	86		52 - 120
Nitrobenzene-d5 (Surr) - DL	80		53 - 120
Phenol-d5 (Surr) - DL	85		54 - 120
p-Terphenyl-d14 (Surr) - DL	88		79 - 130

Lab Sample ID: 480-216732-4 MSD

Matrix: Solid

Analysis Batch: 699735

Client Sample ID: F-LOA-04-01302024

Prep Type: Total/NA

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1,4-Dioxane - DL	ND	F1	2010	934	J	ug/Kg	☼	46		13 - 120	16	50
2,4,5-Trichlorophenol - DL	ND		2010	1950	J	ug/Kg	☼	97		46 - 120	13	18
2,4,6-Trichlorophenol - DL	ND		2010	1750	J	ug/Kg	☼	87		41 - 123	0	19
2,4-Dichlorophenol - DL	ND		2010	1650	J	ug/Kg	☼	82		45 - 120	2	19
2,4-Dimethylphenol - DL	ND		2010	1660	J	ug/Kg	☼	82		52 - 120	7	42
2,4-Dinitrophenol - DL	ND		4030	ND		ug/Kg	☼	NC		41 - 146	NC	22
2,4-Dinitrotoluene - DL	ND		2010	1790	J	ug/Kg	☼	89		63 - 125	3	20
2,6-Dinitrotoluene - DL	ND		2010	1980	J	ug/Kg	☼	98		66 - 120	5	15
2-Chloronaphthalene - DL	ND		2010	1820	J	ug/Kg	☼	90		57 - 120	8	21
2-Chlorophenol - DL	ND		2010	1680	J	ug/Kg	☼	83		43 - 120	6	25
2-Methylnaphthalene - DL	ND		2010	2190		ug/Kg	☼	109		55 - 120	6	21
2-Methylphenol - DL	ND		2010	1880	J	ug/Kg	☼	93		48 - 120	1	27
2-Nitroaniline - DL	ND		2010	1960	J	ug/Kg	☼	98		61 - 120	3	15
2-Nitrophenol - DL	ND		2010	1700	J	ug/Kg	☼	85		37 - 120	2	18
3,3'-Dichlorobenzidine - DL	ND		4030	3450	J	ug/Kg	☼	86		37 - 126	1	25
3-Nitroaniline - DL	ND		2010	1690	J	ug/Kg	☼	84		48 - 120	0	19
4,6-Dinitro-2-methylphenol - DL	ND		4030	3620	J	ug/Kg	☼	90		23 - 149	4	15
4-Bromophenyl phenyl ether - DL	ND		2010	1810	J	ug/Kg	☼	90		58 - 120	5	15
4-Chloro-3-methylphenol - DL	ND		2010	2000	J	ug/Kg	☼	99		49 - 125	5	27
4-Chloroaniline - DL	ND		2010	1550	J	ug/Kg	☼	77		38 - 120	12	22
4-Chlorophenyl phenyl ether - DL	ND		2010	1810	J	ug/Kg	☼	90		63 - 124	0	16

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 480-216732-4 MSD

Client Sample ID: F-LOA-04-01302024

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 699735

Prep Batch: 699565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Methylphenol - DL	ND		2010	1950	J	ug/Kg	☼	97	50 - 120	1	24
4-Nitroaniline - DL	ND		2010	2170	J	ug/Kg	☼	108	47 - 120	13	24
4-Nitrophenol - DL	ND		4030	3810	J	ug/Kg	☼	95	31 - 147	8	25
Acenaphthene - DL	ND		2010	1980	J	ug/Kg	☼	98	60 - 120	3	35
Acenaphthylene - DL	ND		2010	2050	J	ug/Kg	☼	102	58 - 121	2	18
Acetophenone - DL	ND		2010	1920	J	ug/Kg	☼	95	47 - 120	5	20
Anthracene - DL	ND		2010	2150		ug/Kg	☼	107	62 - 120	8	15
Atrazine - DL	ND		4030	3570		ug/Kg	☼	89	60 - 150	4	20
Benzaldehyde - DL	ND		4030	2920		ug/Kg	☼	72	10 - 150	7	20
Benzo[a]anthracene - DL	280	J	2010	2320		ug/Kg	☼	101	65 - 120	5	15
Benzo[a]pyrene - DL	300	J	2010	2290		ug/Kg	☼	99	64 - 120	5	15
Benzo[b]fluoranthene - DL	520	J	2010	2180		ug/Kg	☼	82	10 - 150	1	15
Benzo[g,h,i]perylene - DL	230	J	2010	2070	J	ug/Kg	☼	91	45 - 145	3	15
Benzo[k]fluoranthene - DL	ND		2010	2380		ug/Kg	☼	118	23 - 150	6	22
Biphenyl - DL	ND		2010	1890	J	ug/Kg	☼	94	58 - 120	5	20
bis (2-chloroisopropyl) ether - DL	ND		2010	1990	J	ug/Kg	☼	99	31 - 120	6	24
Bis(2-chloroethoxy)methane - DL	ND		2010	1830	J	ug/Kg	☼	91	52 - 120	7	17
Bis(2-chloroethyl)ether - DL	ND		2010	1650	J	ug/Kg	☼	82	45 - 120	5	21
Bis(2-ethylhexyl) phthalate - DL	ND		2010	2010	J	ug/Kg	☼	100	61 - 133	1	15
Butyl benzyl phthalate - DL	ND		2010	2240		ug/Kg	☼	111	61 - 120	4	16
Caprolactam - DL	ND		4030	3690		ug/Kg	☼	92	37 - 133	2	20
Carbazole - DL	ND		2010	2030	J	ug/Kg	☼	101	59 - 120	2	20
Chrysene - DL	ND		2010	2370		ug/Kg	☼	118	64 - 120	11	15
Dibenz(a,h)anthracene - DL	ND		2010	1810	J	ug/Kg	☼	90	54 - 132	0	15
Dibenzofuran - DL	ND		2010	2000	J	ug/Kg	☼	99	62 - 120	4	15
Diethyl phthalate - DL	ND		2010	1950	J	ug/Kg	☼	97	66 - 120	2	15
Dimethyl phthalate - DL	ND		2010	1840	J	ug/Kg	☼	92	65 - 124	2	15
Di-n-butyl phthalate - DL	ND		2010	2050	J	ug/Kg	☼	102	58 - 130	5	15
Di-n-octyl phthalate - DL	ND		2010	2130		ug/Kg	☼	106	57 - 133	2	16
Fluoranthene - DL	570	J	2010	2620		ug/Kg	☼	102	62 - 120	3	15
Fluorene - DL	ND		2010	2140		ug/Kg	☼	106	63 - 120	6	15
Hexachlorobenzene - DL	ND		2010	1790	J	ug/Kg	☼	89	60 - 120	9	15
Hexachlorobutadiene - DL	ND		2010	1610	J	ug/Kg	☼	80	45 - 120	3	44
Hexachlorocyclopentadiene - DL	ND		2010	1470	J	ug/Kg	☼	73	31 - 120	6	49
Hexachloroethane - DL	ND		2010	1690	J	ug/Kg	☼	84	21 - 120	9	46
Indeno[1,2,3-cd]pyrene - DL	ND		2010	2010	J	ug/Kg	☼	100	56 - 134	4	15
Isophorone - DL	ND		2010	1770	J	ug/Kg	☼	88	56 - 120	4	17
Naphthalene - DL	8200		2010	11000	4	ug/Kg	☼	134	46 - 120	5	29
Nitrobenzene - DL	ND		2010	1730	J	ug/Kg	☼	86	49 - 120	5	24
N-Nitrosodi-n-propylamine - DL	ND		2010	1950	J	ug/Kg	☼	97	46 - 120	9	31
N-Nitrosodiphenylamine - DL	ND		2010	1820	J	ug/Kg	☼	91	20 - 128	5	15
Pentachlorophenol - DL	ND		4030	3890	J	ug/Kg	☼	97	10 - 136	7	35
Phenanthrene - DL	490	J	2010	2680		ug/Kg	☼	109	60 - 122	7	15
Phenol - DL	ND		2010	1790	J	ug/Kg	☼	89	50 - 120	5	35
Pyrene - DL	490	J	2010	2630		ug/Kg	☼	106	61 - 133	4	35

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 480-216732-4 MSD
Matrix: Solid
Analysis Batch: 699735

Client Sample ID: F-LOA-04-01302024
Prep Type: Total/NA
Prep Batch: 699565

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr) - DL	92		54 - 120
2-Fluorobiphenyl (Surr) - DL	89		60 - 120
2-Fluorophenol (Surr) - DL	85		52 - 120
Nitrobenzene-d5 (Surr) - DL	81		53 - 120
Phenol-d5 (Surr) - DL	81		54 - 120
p-Terphenyl-d14 (Surr) - DL	94		79 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-699748/1-A
Matrix: Solid
Analysis Batch: 699852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.00050	0.0000073	mg/L		02/02/24 13:49	02/05/24 12:36	1
Endrin	ND		0.00050	0.0000035	mg/L		02/02/24 13:49	02/05/24 12:36	1
gamma-BHC (Lindane)	ND		0.00050	0.0000015	mg/L		02/02/24 13:49	02/05/24 12:36	1
Heptachlor	ND		0.00050	0.0000021	mg/L		02/02/24 13:49	02/05/24 12:36	1
Heptachlor epoxide	ND		0.00050	0.0000013	mg/L		02/02/24 13:49	02/05/24 12:36	1
Methoxychlor	ND		0.00050	0.0000035	mg/L		02/02/24 13:49	02/05/24 12:36	1
Toxaphene	ND		0.00050	0.0000030	mg/L		02/02/24 13:49	02/05/24 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	42		20 - 120	02/02/24 13:49	02/05/24 12:36	1
DCB Decachlorobiphenyl (Surr)	57		20 - 120	02/02/24 13:49	02/05/24 12:36	1
Tetrachloro-m-xylene (Surr)	72		44 - 120	02/02/24 13:49	02/05/24 12:36	1
Tetrachloro-m-xylene (Surr)	76		44 - 120	02/02/24 13:49	02/05/24 12:36	1

Lab Sample ID: LCS 480-699748/2-A
Matrix: Solid
Analysis Batch: 699852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin	0.000500	0.000461		mg/L		92	65 - 135
gamma-BHC (Lindane)	0.000500	0.000390		mg/L		78	56 - 120
Heptachlor	0.000500	0.000393		mg/L		79	58 - 120
Heptachlor epoxide	0.000500	0.000466		mg/L		93	65 - 125
Methoxychlor	0.000500	0.000461		mg/L		92	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	47		20 - 120
DCB Decachlorobiphenyl (Surr)	63		20 - 120
Tetrachloro-m-xylene (Surr)	71		44 - 120
Tetrachloro-m-xylene (Surr)	76		44 - 120

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 480-699748/3-A
Matrix: Solid
Analysis Batch: 699852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 699748

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin	0.000500	0.000480		mg/L		96	65 - 135	4	24
gamma-BHC (Lindane)	0.000500	0.000380		mg/L		76	56 - 120	3	24
Heptachlor	0.000500	0.000366		mg/L		73	58 - 120	7	25
Heptachlor epoxide	0.000500	0.000473		mg/L		95	65 - 125	1	23
Methoxychlor	0.000500	0.000456		mg/L		91	50 - 150	1	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	51		20 - 120
DCB Decachlorobiphenyl (Surr)	68		20 - 120
Tetrachloro-m-xylene (Surr)	63		44 - 120
Tetrachloro-m-xylene (Surr)	66		44 - 120

Lab Sample ID: LB 480-699598/1-E
Matrix: Solid
Analysis Batch: 699852

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 699748

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0020	0.000029	mg/L		02/02/24 13:49	02/05/24 13:35	1
Endrin	ND		0.00020	0.000014	mg/L		02/02/24 13:49	02/05/24 13:35	1
gamma-BHC (Lindane)	ND		0.00020	0.0000060	mg/L		02/02/24 13:49	02/05/24 13:35	1
Heptachlor	ND		0.00020	0.0000085	mg/L		02/02/24 13:49	02/05/24 13:35	1
Heptachlor epoxide	ND		0.00020	0.0000053	mg/L		02/02/24 13:49	02/05/24 13:35	1
Methoxychlor	ND		0.00020	0.000014	mg/L		02/02/24 13:49	02/05/24 13:35	1
Toxaphene	ND		0.0020	0.00012	mg/L		02/02/24 13:49	02/05/24 13:35	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	57		20 - 120	02/02/24 13:49	02/05/24 13:35	1
DCB Decachlorobiphenyl (Surr)	75		20 - 120	02/02/24 13:49	02/05/24 13:35	1
Tetrachloro-m-xylene (Surr)	54		44 - 120	02/02/24 13:49	02/05/24 13:35	1
Tetrachloro-m-xylene (Surr)	61		44 - 120	02/02/24 13:49	02/05/24 13:35	1

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-699705/1-A
Matrix: Solid
Analysis Batch: 699867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.00050	0.00010	mg/L		02/02/24 09:11	02/05/24 12:39	1
Silvex (2,4,5-TP)	ND		0.00050	0.000090	mg/L		02/02/24 09:11	02/05/24 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	85		21 - 143	02/02/24 09:11	02/05/24 12:39	1
2,4-Dichlorophenylacetic acid (Surr)	82		21 - 143	02/02/24 09:11	02/05/24 12:39	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 8151 - TCLP Herbicides (Continued)

Lab Sample ID: LCS 480-699705/2-A
Matrix: Solid
Analysis Batch: 699867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	0.00200	0.00179		mg/L		90	36 - 150
Silvex (2,4,5-TP)	0.00200	0.00165		mg/L		82	49 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr)	88		21 - 143
2,4-Dichlorophenylacetic acid (Surr)	83		21 - 143

Lab Sample ID: LCSD 480-699705/3-A
Matrix: Solid
Analysis Batch: 699867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 699705

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	0.00200	0.00178		mg/L		89	36 - 150	1	50
Silvex (2,4,5-TP)	0.00200	0.00160		mg/L		80	49 - 150	3	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr)	106		21 - 143
2,4-Dichlorophenylacetic acid (Surr)	84		21 - 143

Lab Sample ID: LB 480-699598/1-B
Matrix: Solid
Analysis Batch: 699867

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 699705

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00040	mg/L		02/02/24 09:11	02/05/24 13:32	1
Silvex (2,4,5-TP)	ND		0.0020	0.00036	mg/L		02/02/24 09:11	02/05/24 13:32	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	30		21 - 143	02/02/24 09:11	02/05/24 13:32	1
2,4-Dichlorophenylacetic acid (Surr)	21		21 - 143	02/02/24 09:11	02/05/24 13:32	1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-642488/1-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.78	0.036	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluoropentanoic acid (PFPeA)	ND		0.39	0.021	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.021	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.022	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.041	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.012	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.074	ug/Kg		02/09/24 09:10	02/13/24 23:57	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 280-642488/1-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.027	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.055	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.027	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.017	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.014	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.013	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.020	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.027	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.055	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.027	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.020	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.017	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
4:2 FTS	ND		0.78	0.075	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
6:2 FTS	ND		0.78	0.47	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
8:2 FTS	ND		0.78	0.11	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.012	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NMeFOSA	ND		0.20	0.024	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NEtFOSA	ND		0.20	0.030	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NMeFOSAA	ND		0.20	0.025	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NEtFOSAA	ND		0.20	0.024	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NMeFOSE	ND		2.0	0.097	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NEtFOSE	ND		2.0	0.11	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
HFPO-DA (GenX)	ND		0.78	0.092	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.78	0.079	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
PFMBA	ND		0.39	0.019	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
NFDHA	ND		0.39	0.047	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
PFMPA	ND		0.39	0.089	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
9CI-PF3ONS	ND		0.78	0.050	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
11CI-PF3OUdS	ND		0.78	0.12	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
PFEESA	ND		0.39	0.039	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
3:3 FTCA	ND		0.98	0.17	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
5:3 FTCA	ND		4.9	0.36	ug/Kg		02/09/24 09:10	02/13/24 23:57	1
7:3 FTCA	ND		4.9	0.30	ug/Kg		02/09/24 09:10	02/13/24 23:57	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C5 PFPeA	90		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C5 PFHxA	83		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C4 PFHpA	81		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C8 PFOA	89		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C9 PFNA	80		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C6 PFDA	77		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C7 PFUnA	69		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C2 PFDoA	62		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C2 PFTeDA	48		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C3 PFBS	95		20 - 150	02/09/24 09:10	02/13/24 23:57	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 280-642488/1-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642488

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	77		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C8 PFOS	71		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C8 FOSA	90		20 - 150	02/09/24 09:10	02/13/24 23:57	1
d3-NMeFOSAA	69		20 - 150	02/09/24 09:10	02/13/24 23:57	1
d5-NEtFOSAA	64		20 - 150	02/09/24 09:10	02/13/24 23:57	1
M2-4:2 FTS	92		20 - 150	02/09/24 09:10	02/13/24 23:57	1
M2-6:2 FTS	80		20 - 150	02/09/24 09:10	02/13/24 23:57	1
M2-8:2 FTS	78		20 - 150	02/09/24 09:10	02/13/24 23:57	1
13C3 HFPO-DA	89		20 - 150	02/09/24 09:10	02/13/24 23:57	1
d7-N-MeFOSE-M	62		20 - 150	02/09/24 09:10	02/13/24 23:57	1
d9-N-EtFOSE-M	58		20 - 150	02/09/24 09:10	02/13/24 23:57	1
d5-NEtPFOSA	45		20 - 150	02/09/24 09:10	02/13/24 23:57	1
d3-NMePFOSA	47		20 - 150	02/09/24 09:10	02/13/24 23:57	1

Lab Sample ID: LCS 280-642488/3-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	3.02	2.93		ug/Kg		97	40 - 150
Perfluoropentanoic acid (PFPeA)	3.02	2.68		ug/Kg		89	40 - 150
Perfluorohexanoic acid (PFHxA)	3.02	3.07		ug/Kg		102	40 - 150
Perfluoroheptanoic acid (PFHpA)	3.02	2.99		ug/Kg		99	40 - 150
Perfluorooctanoic acid (PFOA)	3.02	2.66		ug/Kg		88	40 - 150
Perfluorononanoic acid (PFNA)	3.02	2.85		ug/Kg		94	40 - 150
Perfluorodecanoic acid (PFDA)	3.02	3.18		ug/Kg		105	40 - 150
Perfluoroundecanoic acid (PFUnA)	3.02	3.12		ug/Kg		103	40 - 150
Perfluorododecanoic acid (PFDoA)	3.02	3.09		ug/Kg		102	40 - 150
Perfluorotridecanoic acid (PFTriA)	3.02	2.61		ug/Kg		86	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	3.02	2.90		ug/Kg		96	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.68	2.50		ug/Kg		93	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.83	2.67		ug/Kg		94	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.75	2.50		ug/Kg		91	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.87	2.87		ug/Kg		100	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.81	2.88		ug/Kg		102	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.90	2.93		ug/Kg		101	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.91	2.60		ug/Kg		89	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.93	1.92		ug/Kg		66	40 - 150
4:2 FTS	7.52	6.65		ug/Kg		88	40 - 150
6:2 FTS	11.4	11.2		ug/Kg		98	40 - 150

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 280-642488/3-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
8:2 FTS	11.6	11.5		ug/Kg		100	40 - 150
Perfluorooctanesulfonamide (PFOSA)	3.02	2.47		ug/Kg		82	40 - 150
NMeFOSA	3.02	2.89		ug/Kg		96	40 - 150
NEtFOSA	3.02	3.19		ug/Kg		106	40 - 150
NMeFOSAA	3.02	3.09		ug/Kg		102	40 - 150
NEtFOSAA	3.02	2.71		ug/Kg		90	40 - 150
NMeFOSE	15.1	15.5		ug/Kg		103	40 - 150
NEtFOSE	30.2	28.7		ug/Kg		95	40 - 150
HFPO-DA (GenX)	3.02	2.98		ug/Kg		99	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.85	3.06		ug/Kg		107	40 - 150
PFMBA	6.04	5.28		ug/Kg		87	40 - 150
NFDHA	3.02	2.80		ug/Kg		93	40 - 150
PFMPA	6.04	5.59		ug/Kg		93	40 - 150
9Cl-PF3ONS	7.51	8.76		ug/Kg		117	40 - 150
11Cl-PF3OUdS	7.59	7.53		ug/Kg		99	40 - 150
PFEESA	5.39	5.06		ug/Kg		94	40 - 150
3:3 FTCA	15.1	12.4		ug/Kg		82	40 - 150
5:3 FTCA	30.2	26.6		ug/Kg		88	40 - 150
7:3 FTCA	30.2	27.4		ug/Kg		91	40 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	81		20 - 150
13C5 PFPeA	87		20 - 150
13C5 PFHxA	86		20 - 150
13C4 PFHpA	81		20 - 150
13C8 PFOA	91		20 - 150
13C9 PFNA	80		20 - 150
13C6 PFDA	82		20 - 150
13C7 PFUnA	71		20 - 150
13C2 PFDoA	73		20 - 150
13C2 PFTeDA	60		20 - 150
13C3 PFBS	95		20 - 150
13C3 PFHxS	92		20 - 150
13C8 PFOS	80		20 - 150
13C8 FOSA	87		20 - 150
d3-NMeFOSAA	73		20 - 150
d5-NEtFOSAA	75		20 - 150
M2-4:2 FTS	88		20 - 150
M2-6:2 FTS	82		20 - 150
M2-8:2 FTS	74		20 - 150
13C3 HFPO-DA	75		20 - 150
d7-N-MeFOSE-M	65		20 - 150
d9-N-EtFOSE-M	64		20 - 150
d5-NEtPFOSA	56		20 - 150
d3-NMePFOSA	63		20 - 150

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 280-642488/2-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642488

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.302	0.291	J	ug/Kg		96	40 - 150
Perfluoropentanoic acid (PFPeA)	0.302	0.289	J	ug/Kg		96	40 - 150
Perfluorohexanoic acid (PFHxA)	0.302	0.287		ug/Kg		95	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.302	0.282		ug/Kg		93	40 - 150
Perfluorooctanoic acid (PFOA)	0.302	0.310		ug/Kg		103	40 - 150
Perfluorononanoic acid (PFNA)	0.302	0.288		ug/Kg		96	40 - 150
Perfluorodecanoic acid (PFDA)	0.302	0.304		ug/Kg		101	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.302	0.380		ug/Kg		126	40 - 150
Perfluorododecanoic acid (PFDoA)	0.302	0.298		ug/Kg		99	40 - 150
Perfluorotridecanoic acid (PFTriA)	0.302	0.260		ug/Kg		86	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.302	0.336		ug/Kg		111	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.268	0.250		ug/Kg		93	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.283	0.277		ug/Kg		98	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.275	0.252		ug/Kg		91	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.287	0.290		ug/Kg		101	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.281	0.273		ug/Kg		97	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.290	0.253		ug/Kg		87	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.291	0.184	J	ug/Kg		63	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.293	0.159	J	ug/Kg		54	40 - 150
4:2 FTS	0.752	0.650	J	ug/Kg		86	40 - 150
6:2 FTS	1.14	1.19		ug/Kg		104	40 - 150
8:2 FTS	1.16	1.06		ug/Kg		92	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.302	0.264		ug/Kg		88	40 - 150
NMeFOSA	0.302	0.346		ug/Kg		115	40 - 150
NEtFOSA	0.302	0.307		ug/Kg		102	40 - 150
NMeFOSAA	0.302	0.316		ug/Kg		105	40 - 150
NEtFOSAA	0.302	0.245		ug/Kg		81	40 - 150
NMeFOSE	1.51	1.66	J	ug/Kg		110	40 - 150
NEtFOSE	3.02	2.94		ug/Kg		97	40 - 150
HFPO-DA (GenX)	0.302	0.310	J	ug/Kg		103	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.285	0.263	J	ug/Kg		92	40 - 150
PFMBA	0.604	0.528		ug/Kg		87	40 - 150
NFDHA	0.302	0.271	J	ug/Kg		90	40 - 150
PFMPA	0.604	0.534		ug/Kg		88	40 - 150
9CI-PF3ONS	0.751	0.675	J	ug/Kg		90	40 - 150
11CI-PF3OUdS	0.759	0.437	J	ug/Kg		58	40 - 150
PFEESA	0.539	0.494		ug/Kg		92	40 - 150
3:3 FTCA	1.51	1.20		ug/Kg		80	40 - 150

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 280-642488/2-A
Matrix: Solid
Analysis Batch: 642832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642488

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	3.02	2.74	J	ug/Kg		91	40 - 150
7:3 FTCA	3.02	2.84	J	ug/Kg		94	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	78		20 - 150
13C5 PFPeA	94		20 - 150
13C5 PFHxA	88		20 - 150
13C4 PFHpA	89		20 - 150
13C8 PFOA	83		20 - 150
13C9 PFNA	80		20 - 150
13C6 PFDA	77		20 - 150
13C7 PFUnA	71		20 - 150
13C2 PFDoA	62		20 - 150
13C2 PFTeDA	45		20 - 150
13C3 PFBS	84		20 - 150
13C3 PFHxS	79		20 - 150
13C8 PFOS	82		20 - 150
13C8 FOSA	91		20 - 150
d3-NMeFOSAA	77		20 - 150
d5-NEtFOSAA	69		20 - 150
M2-4:2 FTS	78		20 - 150
M2-6:2 FTS	70		20 - 150
M2-8:2 FTS	75		20 - 150
13C3 HFPO-DA	88		20 - 150
d7-N-MeFOSE-M	56		20 - 150
d9-N-EtFOSE-M	57		20 - 150
d5-NEtPFOSA	54		20 - 150
d3-NMePFOSA	59		20 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-699709/2-A
Matrix: Solid
Analysis Batch: 699805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:20	1
Barium	ND		1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:20	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:20	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:20	1
Lead	ND		0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:20	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:20	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:20	1

QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-699709/3-A
Matrix: Solid
Analysis Batch: 699805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Cadmium	1.00	1.03		mg/L		103	80 - 120
Chromium	1.00	1.10		mg/L		110	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Silver	1.00	1.15		mg/L		115	80 - 120

Lab Sample ID: LB 480-699598/1-C
Matrix: Solid
Analysis Batch: 699805

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 699709

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		02/02/24 09:46	02/03/24 00:16	1
Barium	ND		1.0	0.10	mg/L		02/02/24 09:46	02/03/24 00:16	1
Cadmium	ND		0.0020	0.00050	mg/L		02/02/24 09:46	02/03/24 00:16	1
Chromium	ND		0.020	0.010	mg/L		02/02/24 09:46	02/03/24 00:16	1
Lead	0.00629	J	0.020	0.0030	mg/L		02/02/24 09:46	02/03/24 00:16	1
Selenium	ND		0.025	0.0087	mg/L		02/02/24 09:46	02/03/24 00:16	1
Silver	ND		0.0060	0.0017	mg/L		02/02/24 09:46	02/03/24 00:16	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-699712/2-A
Matrix: Solid
Analysis Batch: 699779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 15:53	1

Lab Sample ID: LCS 480-699712/3-A
Matrix: Solid
Analysis Batch: 699779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00680	0.00632		mg/L		93	80 - 120

Lab Sample ID: LCSD 480-699712/4-A
Matrix: Solid
Analysis Batch: 699779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 699712

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00680	0.00641		mg/L		94	80 - 120	1	20

Lab Sample ID: LB 480-699598/1-D
Matrix: Solid
Analysis Batch: 699779

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 699712

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 15:52	1

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-699711/1-A
 Matrix: Water
 Analysis Batch: 699779

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 699711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/02/24 11:25	02/02/24 15:43	1

Lab Sample ID: LCS 480-699711/2-A
 Matrix: Water
 Analysis Batch: 699779

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 699711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00631		mg/L		94	80 - 120

Lab Sample ID: LCSD 480-699711/3-A
 Matrix: Water
 Analysis Batch: 699779

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 699711

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00669	0.00630		mg/L		94	80 - 120	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-699638/1-A
 Matrix: Solid
 Analysis Batch: 699664

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 699638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		02/01/24 12:04	02/01/24 14:22	1

Lab Sample ID: LCSSRM 480-699638/2-A ^10
 Matrix: Solid
 Analysis Batch: 699664

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 699638

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	17.1	11.20		mg/Kg		65.5	36.0 - 109.9

Lab Sample ID: 480-216732-2 MS
 Matrix: Solid
 Analysis Batch: 699664

Client Sample ID: F-LOA-02-01302024
 Prep Type: Total/NA
 Prep Batch: 699638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.12		0.461	0.486		mg/Kg	⊛	80	80 - 120

Lab Sample ID: 480-216732-2 MSD
 Matrix: Solid
 Analysis Batch: 699664

Client Sample ID: F-LOA-02-01302024
 Prep Type: Total/NA
 Prep Batch: 699638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.12		0.453	0.500		mg/Kg	⊛	84	80 - 120	3	20

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-699518/1
Matrix: Solid
Analysis Batch: 699518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-216732-1 DU
Matrix: Solid
Analysis Batch: 699518

Client Sample ID: F-LOA-01-01302024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180.0		Degrees F		NC	10

Lab Sample ID: LCS 480-699519/1
Matrix: Solid
Analysis Batch: 699519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-216732-2 DU
Matrix: Solid
Analysis Batch: 699519

Client Sample ID: F-LOA-02-01302024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180.0		Degrees F		NC	10

Lab Sample ID: LCS 480-699605/1
Matrix: Solid
Analysis Batch: 699605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-699609/3
Matrix: Water
Analysis Batch: 699609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			02/01/24 08:11	1

Lab Sample ID: LCS 480-699609/4
Matrix: Water
Analysis Batch: 699609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.987		mg/L		99	90 - 110

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QC Sample Results

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-699681/1-A
Matrix: Solid
Analysis Batch: 699796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/Kg		02/01/24 11:40	02/02/24 13:25	1

Lab Sample ID: LCS 480-699681/2-A
Matrix: Solid
Analysis Batch: 699796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	1000	508.8		mg/Kg		51	10 - 100

Lab Sample ID: 480-216732-1 DU
Matrix: Solid
Analysis Batch: 699796

Client Sample ID: F-LOA-01-01302024
Prep Type: Total/NA
Prep Batch: 699681

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	ND		ND		mg/Kg		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-699682/1-A
Matrix: Solid
Analysis Batch: 699790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 699682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/Kg		02/01/24 11:40	02/02/24 16:25	1

Lab Sample ID: LCS 480-699682/2-A
Matrix: Solid
Analysis Batch: 699790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 699682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	780	621.2		mg/Kg		80	10 - 100

Lab Sample ID: 480-216732-1 DU
Matrix: Solid
Analysis Batch: 699790

Client Sample ID: F-LOA-01-01302024
Prep Type: Total/NA
Prep Batch: 699682

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	74.3		77.79		mg/Kg		5	20

Method: 9045D - pH

Lab Sample ID: LCS 480-699787/1
Matrix: Solid
Analysis Batch: 699787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

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QC Sample Results

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method: 9045D - pH (Continued)

Lab Sample ID: 480-216732-1 DU

Matrix: Solid

Analysis Batch: 699787

Client Sample ID: F-LOA-01-01302024

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.4	HF	8.6		SU		2	5
Temperature	17.9	HF	18.1		Degrees C		1	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

GC/MS VOA

Prep Batch: 699570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	5035A_L	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	5035A_L	
MB 480-699570/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-699570/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-699570/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 699571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	8260C	699570
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	8260C	699570
MB 480-699570/3-A	Method Blank	Total/NA	Solid	8260C	699570
LCS 480-699570/1-A	Lab Control Sample	Total/NA	Solid	8260C	699570
LCSD 480-699570/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	699570

Leach Batch: 699601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	1311	
480-216732-2	F-LOA-02-01302024	TCLP	Solid	1311	
480-216732-3	F-LOA-03-01302024	TCLP	Solid	1311	
480-216732-4	F-LOA-04-01302024	TCLP	Solid	1311	
480-216732-5	F-LOA-05-01302024	TCLP	Solid	1311	
480-216732-6	F-LOA-06-01302024	TCLP	Solid	1311	
LB 480-699601/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 699604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7	F-LOA-07-01292024	Total/NA	Water	8260C	
MB 480-699604/8	Method Blank	Total/NA	Water	8260C	
LCS 480-699604/6	Lab Control Sample	Total/NA	Water	8260C	

Prep Batch: 699607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	5035A_H	
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	5035A_H	
480-216732-3 - DL	F-LOA-03-01302024	Total/NA	Solid	5035A_H	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	5035A_H	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	5035A_H	
MB 480-699607/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-699607/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 699697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	8260C	699607
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	8260C	699607
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	8260C	699607
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	8260C	699607
MB 480-699607/3-A	Method Blank	Total/NA	Solid	8260C	699607
LCS 480-699607/1-A	Lab Control Sample	Total/NA	Solid	8260C	699607

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QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

GC/MS VOA

Analysis Batch: 699828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-3 - DL	F-LOA-03-01302024	Total/NA	Solid	8260C	699607

Analysis Batch: 699845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	8260C	699601
480-216732-2	F-LOA-02-01302024	TCLP	Solid	8260C	699601
480-216732-3	F-LOA-03-01302024	TCLP	Solid	8260C	699601
480-216732-4	F-LOA-04-01302024	TCLP	Solid	8260C	699601
480-216732-5	F-LOA-05-01302024	TCLP	Solid	8260C	699601
480-216732-6	F-LOA-06-01302024	TCLP	Solid	8260C	699601
LB 480-699601/1-A	Method Blank	TCLP	Solid	8260C	699601
MB 480-699845/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-699845/6	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 699565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	3550C	
480-216732-1 - DL	F-LOA-01-01302024	Total/NA	Solid	3550C	
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	3550C	
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	3550C	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	3550C	
480-216732-4 - DL	F-LOA-04-01302024	Total/NA	Solid	3550C	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	3550C	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	3550C	
MB 480-699565/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-699565/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-216732-4 MS	F-LOA-04-01302024	Total/NA	Solid	3550C	
480-216732-4 MS - DL	F-LOA-04-01302024	Total/NA	Solid	3550C	
480-216732-4 MSD	F-LOA-04-01302024	Total/NA	Solid	3550C	
480-216732-4 MSD - DL	F-LOA-04-01302024	Total/NA	Solid	3550C	

Analysis Batch: 699589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	8270D	699565
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	8270D	699565
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	8270D	699565
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	8270D	699565
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	8270D	699565
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	8270D	699565
MB 480-699565/1-A	Method Blank	Total/NA	Solid	8270D	699565
LCS 480-699565/2-A	Lab Control Sample	Total/NA	Solid	8270D	699565
480-216732-4 MS	F-LOA-04-01302024	Total/NA	Solid	8270D	699565
480-216732-4 MSD	F-LOA-04-01302024	Total/NA	Solid	8270D	699565

Leach Batch: 699598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	1311	
480-216732-2	F-LOA-02-01302024	TCLP	Solid	1311	
480-216732-3	F-LOA-03-01302024	TCLP	Solid	1311	

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QC Association Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

GC/MS Semi VOA (Continued)

Leach Batch: 699598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-4	F-LOA-04-01302024	TCLP	Solid	1311	
480-216732-5	F-LOA-05-01302024	TCLP	Solid	1311	
480-216732-6	F-LOA-06-01302024	TCLP	Solid	1311	
LB 480-699598/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 699657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7	F-LOA-07-01292024	Total/NA	Water	3510C	
480-216732-7 - DL	F-LOA-07-01292024	Total/NA	Water	3510C	
MB 480-699657/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-699657/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 699735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1 - DL	F-LOA-01-01302024	Total/NA	Solid	8270D	699565
480-216732-4 - DL	F-LOA-04-01302024	Total/NA	Solid	8270D	699565
480-216732-4 MS - DL	F-LOA-04-01302024	Total/NA	Solid	8270D	699565
480-216732-4 MSD - DL	F-LOA-04-01302024	Total/NA	Solid	8270D	699565

Prep Batch: 699753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	3510C	699598
480-216732-2	F-LOA-02-01302024	TCLP	Solid	3510C	699598
480-216732-3	F-LOA-03-01302024	TCLP	Solid	3510C	699598
480-216732-4	F-LOA-04-01302024	TCLP	Solid	3510C	699598
480-216732-5	F-LOA-05-01302024	TCLP	Solid	3510C	699598
480-216732-6	F-LOA-06-01302024	TCLP	Solid	3510C	699598
LB 480-699598/1-F	Method Blank	TCLP	Solid	3510C	699598
MB 480-699753/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-699753/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-699753/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 699837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-699657/1-A	Method Blank	Total/NA	Water	8270D	699657
LCS 480-699657/2-A	Lab Control Sample	Total/NA	Water	8270D	699657

Analysis Batch: 699859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	8270D	699753
480-216732-2	F-LOA-02-01302024	TCLP	Solid	8270D	699753
480-216732-3	F-LOA-03-01302024	TCLP	Solid	8270D	699753
480-216732-4	F-LOA-04-01302024	TCLP	Solid	8270D	699753
480-216732-5	F-LOA-05-01302024	TCLP	Solid	8270D	699753
480-216732-6	F-LOA-06-01302024	TCLP	Solid	8270D	699753
LB 480-699598/1-F	Method Blank	TCLP	Solid	8270D	699753
MB 480-699753/1-A	Method Blank	Total/NA	Solid	8270D	699753
LCS 480-699753/2-A	Lab Control Sample	Total/NA	Solid	8270D	699753
LCSD 480-699753/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	699753

QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

GC/MS Semi VOA

Analysis Batch: 699935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7	F-LOA-07-01292024	Total/NA	Water	8270D	699657

Analysis Batch: 700197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7 - DL	F-LOA-07-01292024	Total/NA	Water	8270D	699657

GC Semi VOA

Leach Batch: 699598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	1311	
480-216732-2	F-LOA-02-01302024	TCLP	Solid	1311	
480-216732-3	F-LOA-03-01302024	TCLP	Solid	1311	
480-216732-4	F-LOA-04-01302024	TCLP	Solid	1311	
480-216732-5	F-LOA-05-01302024	TCLP	Solid	1311	
480-216732-6	F-LOA-06-01302024	TCLP	Solid	1311	
LB 480-699598/1-B	Method Blank	TCLP	Solid	1311	
LB 480-699598/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 699705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	8151A	699598
480-216732-2	F-LOA-02-01302024	TCLP	Solid	8151A	699598
480-216732-3	F-LOA-03-01302024	TCLP	Solid	8151A	699598
480-216732-4	F-LOA-04-01302024	TCLP	Solid	8151A	699598
480-216732-5	F-LOA-05-01302024	TCLP	Solid	8151A	699598
480-216732-6	F-LOA-06-01302024	TCLP	Solid	8151A	699598
LB 480-699598/1-B	Method Blank	TCLP	Solid	8151A	699598
MB 480-699705/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-699705/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-699705/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Prep Batch: 699748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	3510C	699598
480-216732-2	F-LOA-02-01302024	TCLP	Solid	3510C	699598
480-216732-3	F-LOA-03-01302024	TCLP	Solid	3510C	699598
480-216732-4	F-LOA-04-01302024	TCLP	Solid	3510C	699598
480-216732-5	F-LOA-05-01302024	TCLP	Solid	3510C	699598
480-216732-6	F-LOA-06-01302024	TCLP	Solid	3510C	699598
LB 480-699598/1-E	Method Blank	TCLP	Solid	3510C	699598
MB 480-699748/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-699748/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-699748/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 699852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	8081B	699748
480-216732-2	F-LOA-02-01302024	TCLP	Solid	8081B	699748
480-216732-3	F-LOA-03-01302024	TCLP	Solid	8081B	699748
480-216732-4	F-LOA-04-01302024	TCLP	Solid	8081B	699748

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QC Association Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

GC Semi VOA (Continued)

Analysis Batch: 699852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-5	F-LOA-05-01302024	TCLP	Solid	8081B	699748
480-216732-6	F-LOA-06-01302024	TCLP	Solid	8081B	699748
LB 480-699598/1-E	Method Blank	TCLP	Solid	8081B	699748
MB 480-699748/1-A	Method Blank	Total/NA	Solid	8081B	699748
LCS 480-699748/2-A	Lab Control Sample	Total/NA	Solid	8081B	699748
LCSD 480-699748/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	699748

Analysis Batch: 699867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	8151	699705
480-216732-2	F-LOA-02-01302024	TCLP	Solid	8151	699705
480-216732-3	F-LOA-03-01302024	TCLP	Solid	8151	699705
480-216732-4	F-LOA-04-01302024	TCLP	Solid	8151	699705
480-216732-5	F-LOA-05-01302024	TCLP	Solid	8151	699705
480-216732-6	F-LOA-06-01302024	TCLP	Solid	8151	699705
LB 480-699598/1-B	Method Blank	TCLP	Solid	8151	699705
MB 480-699705/1-A	Method Blank	Total/NA	Solid	8151	699705
LCS 480-699705/2-A	Lab Control Sample	Total/NA	Solid	8151	699705
LCSD 480-699705/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	699705

LCMS

Prep Batch: 642488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	1633 Shake	
MB 280-642488/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-642488/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 280-642488/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 642832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	Draft 1633	642488
MB 280-642488/1-A	Method Blank	Total/NA	Solid	Draft 1633	642488
LCS 280-642488/3-A	Lab Control Sample	Total/NA	Solid	Draft 1633	642488
LLCS 280-642488/2-A	Lab Control Sample	Total/NA	Solid	Draft 1633	642488

Metals

Leach Batch: 699598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	1311	
480-216732-2	F-LOA-02-01302024	TCLP	Solid	1311	
480-216732-3	F-LOA-03-01302024	TCLP	Solid	1311	
480-216732-4	F-LOA-04-01302024	TCLP	Solid	1311	
480-216732-5	F-LOA-05-01302024	TCLP	Solid	1311	
480-216732-6	F-LOA-06-01302024	TCLP	Solid	1311	
LB 480-699598/1-C	Method Blank	TCLP	Solid	1311	
LB 480-699598/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 699638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	7471B	

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QC Association Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Metals (Continued)

Prep Batch: 699638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	7471B	
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	7471B	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	7471B	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	7471B	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	7471B	
MB 480-699638/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-699638/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-216732-2 MS	F-LOA-02-01302024	Total/NA	Solid	7471B	
480-216732-2 MSD	F-LOA-02-01302024	Total/NA	Solid	7471B	

Analysis Batch: 699664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	7471B	699638
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	7471B	699638
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	7471B	699638
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	7471B	699638
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	7471B	699638
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	7471B	699638
MB 480-699638/1-A	Method Blank	Total/NA	Solid	7471B	699638
LCSSRM 480-699638/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	699638
480-216732-2 MS	F-LOA-02-01302024	Total/NA	Solid	7471B	699638
480-216732-2 MSD	F-LOA-02-01302024	Total/NA	Solid	7471B	699638

Prep Batch: 699709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	3010A	699598
480-216732-2	F-LOA-02-01302024	TCLP	Solid	3010A	699598
480-216732-3	F-LOA-03-01302024	TCLP	Solid	3010A	699598
480-216732-4	F-LOA-04-01302024	TCLP	Solid	3010A	699598
480-216732-5	F-LOA-05-01302024	TCLP	Solid	3010A	699598
480-216732-6	F-LOA-06-01302024	TCLP	Solid	3010A	699598
LB 480-699598/1-C	Method Blank	TCLP	Solid	3010A	699598
MB 480-699709/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-699709/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 699711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7	F-LOA-07-01292024	Total/NA	Water	7470A	
MB 480-699711/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-699711/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-699711/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Prep Batch: 699712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	7470A	699598
480-216732-2	F-LOA-02-01302024	TCLP	Solid	7470A	699598
480-216732-3	F-LOA-03-01302024	TCLP	Solid	7470A	699598
480-216732-4	F-LOA-04-01302024	TCLP	Solid	7470A	699598
480-216732-5	F-LOA-05-01302024	TCLP	Solid	7470A	699598
480-216732-6	F-LOA-06-01302024	TCLP	Solid	7470A	699598
LB 480-699598/1-D	Method Blank	TCLP	Solid	7470A	699598

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QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Metals (Continued)

Prep Batch: 699712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-699712/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-699712/3-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 480-699712/4-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 699779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	7470A	699712
480-216732-2	F-LOA-02-01302024	TCLP	Solid	7470A	699712
480-216732-3	F-LOA-03-01302024	TCLP	Solid	7470A	699712
480-216732-4	F-LOA-04-01302024	TCLP	Solid	7470A	699712
480-216732-5	F-LOA-05-01302024	TCLP	Solid	7470A	699712
480-216732-6	F-LOA-06-01302024	TCLP	Solid	7470A	699712
480-216732-7	F-LOA-07-01292024	Total/NA	Water	7470A	699711
LB 480-699598/1-D	Method Blank	TCLP	Solid	7470A	699712
MB 480-699711/1-A	Method Blank	Total/NA	Water	7470A	699711
MB 480-699712/2-A	Method Blank	Total/NA	Solid	7470A	699712
LCS 480-699711/2-A	Lab Control Sample	Total/NA	Water	7470A	699711
LCS 480-699712/3-A	Lab Control Sample	Total/NA	Solid	7470A	699712
LCSD 480-699711/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	699711
LCSD 480-699712/4-A	Lab Control Sample Dup	Total/NA	Solid	7470A	699712

Analysis Batch: 699805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	TCLP	Solid	6010C	699709
480-216732-2	F-LOA-02-01302024	TCLP	Solid	6010C	699709
480-216732-3	F-LOA-03-01302024	TCLP	Solid	6010C	699709
480-216732-4	F-LOA-04-01302024	TCLP	Solid	6010C	699709
480-216732-5	F-LOA-05-01302024	TCLP	Solid	6010C	699709
480-216732-6	F-LOA-06-01302024	TCLP	Solid	6010C	699709
LB 480-699598/1-C	Method Blank	TCLP	Solid	6010C	699709
MB 480-699709/2-A	Method Blank	Total/NA	Solid	6010C	699709
LCS 480-699709/3-A	Lab Control Sample	Total/NA	Solid	6010C	699709

General Chemistry

Analysis Batch: 699518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	1010A	
LCS 480-699518/1	Lab Control Sample	Total/NA	Solid	1010A	
480-216732-1 DU	F-LOA-01-01302024	Total/NA	Solid	1010A	

Analysis Batch: 699519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	1010A	
LCS 480-699519/1	Lab Control Sample	Total/NA	Solid	1010A	
480-216732-2 DU	F-LOA-02-01302024	Total/NA	Solid	1010A	

Analysis Batch: 699563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	Moisture	
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

General Chemistry (Continued)

Analysis Batch: 699563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	Moisture	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	Moisture	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	Moisture	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	Moisture	
480-216732-6 DU	F-LOA-06-01302024	Total/NA	Solid	Moisture	

Analysis Batch: 699605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	1010A	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	1010A	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	1010A	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	1010A	
480-216732-7	F-LOA-07-01292024	Total/NA	Water	1010A	
LCS 480-699605/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 699609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7	F-LOA-07-01292024	Total/NA	Water	350.1	
MB 480-699609/3	Method Blank	Total/NA	Water	350.1	
LCS 480-699609/4	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 699681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	7.3.3	
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	7.3.3	
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	7.3.3	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	7.3.3	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	7.3.3	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	7.3.3	
MB 480-699681/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-699681/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
480-216732-1 DU	F-LOA-01-01302024	Total/NA	Solid	7.3.3	

Prep Batch: 699682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	7.3.4	
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	7.3.4	
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	7.3.4	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	7.3.4	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	7.3.4	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	7.3.4	
MB 480-699682/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-699682/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
480-216732-1 DU	F-LOA-01-01302024	Total/NA	Solid	7.3.4	

Analysis Batch: 699684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-7	F-LOA-07-01292024	Total/NA	Water	9040C	
LCS 480-699684/1	Lab Control Sample	Total/NA	Water	9040C	

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QC Association Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

General Chemistry

Analysis Batch: 699787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	9045D	
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	9045D	
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	9045D	
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	9045D	
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	9045D	
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	9045D	
LCS 480-699787/1	Lab Control Sample	Total/NA	Solid	9045D	
480-216732-1 DU	F-LOA-01-01302024	Total/NA	Solid	9045D	

Analysis Batch: 699790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	9034	699682
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	9034	699682
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	9034	699682
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	9034	699682
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	9034	699682
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	9034	699682
MB 480-699682/1-A	Method Blank	Total/NA	Solid	9034	699682
LCS 480-699682/2-A	Lab Control Sample	Total/NA	Solid	9034	699682
480-216732-1 DU	F-LOA-01-01302024	Total/NA	Solid	9034	699682

Analysis Batch: 699796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216732-1	F-LOA-01-01302024	Total/NA	Solid	9012	699681
480-216732-2	F-LOA-02-01302024	Total/NA	Solid	9012	699681
480-216732-3	F-LOA-03-01302024	Total/NA	Solid	9012	699681
480-216732-4	F-LOA-04-01302024	Total/NA	Solid	9012	699681
480-216732-5	F-LOA-05-01302024	Total/NA	Solid	9012	699681
480-216732-6	F-LOA-06-01302024	Total/NA	Solid	9012	699681
MB 480-699681/1-A	Method Blank	Total/NA	Solid	9012	699681
LCS 480-699681/2-A	Lab Control Sample	Total/NA	Solid	9012	699681
480-216732-1 DU	F-LOA-01-01302024	Total/NA	Solid	9012	699681

Lab Chronicle

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699601	SMP	EET BUF	02/01/24 08:05 - 02/02/24 09:34 ¹
TCLP	Analysis	8260C		10	699845	CC	EET BUF	02/05/24 13:57
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699753	LSC	EET BUF	02/02/24 13:57
TCLP	Analysis	8270D		1	699859	EMD	EET BUF	02/05/24 16:36
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699748	LSC	EET BUF	02/02/24 13:49
TCLP	Analysis	8081B		1	699852	MAN	EET BUF	02/05/24 13:54
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	8151A			699705	JMP	EET BUF	02/02/24 09:11
TCLP	Analysis	8151		1	699867	MAN	EET BUF	02/05/24 14:46
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3010A			699709	ESB	EET BUF	02/02/24 09:46
TCLP	Analysis	6010C		1	699805	BMB	EET BUF	02/03/24 00:27
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	7470A			699712	NVK	EET BUF	02/02/24 11:25
TCLP	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 16:00
Total/NA	Analysis	1010A		1	699518	KM	EET BUF	01/31/24 10:41
Total/NA	Prep	7.3.3			699681	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9012		1	699796	AM	EET BUF	02/02/24 13:28
Total/NA	Prep	7.3.4			699682	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9034		1	699790	AM	EET BUF	02/02/24 16:25
Total/NA	Analysis	9045D		1	699787	KB	EET BUF	02/02/24 13:43
Total/NA	Analysis	Moisture		1	699563	JMM	EET BUF	01/31/24 15:56

Client Sample ID: F-LOA-01-01302024

Lab Sample ID: 480-216732-1

Date Collected: 01/30/24 14:15

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			699607	ZN	EET BUF	02/02/24 09:13
Total/NA	Analysis	8260C		1	699697	ZN	EET BUF	02/02/24 13:45
Total/NA	Prep	3550C			699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D		1	699589	EMD	EET BUF	02/01/24 19:26
Total/NA	Prep	3550C	DL		699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D	DL	10	699735	EMD	EET BUF	02/02/24 13:53
Total/NA	Prep	7471B			699638	NVK	EET BUF	02/01/24 12:04
Total/NA	Analysis	7471B		1	699664	NVK	EET BUF	02/01/24 14:24

Lab Chronicle

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699601	SMP	EET BUF	02/01/24 08:05 - 02/02/24 09:34 ¹
TCLP	Analysis	8260C		10	699845	CC	EET BUF	02/05/24 14:20
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699753	LSC	EET BUF	02/02/24 13:57
TCLP	Analysis	8270D		1	699859	EMD	EET BUF	02/05/24 17:00
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699748	LSC	EET BUF	02/02/24 13:49
TCLP	Analysis	8081B		1	699852	MAN	EET BUF	02/05/24 14:14
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	8151A			699705	JMP	EET BUF	02/02/24 09:11
TCLP	Analysis	8151		1	699867	MAN	EET BUF	02/05/24 15:04
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3010A			699709	ESB	EET BUF	02/02/24 09:46
TCLP	Analysis	6010C		1	699805	BMB	EET BUF	02/03/24 00:41
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	7470A			699712	NVK	EET BUF	02/02/24 11:25
TCLP	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 16:01
Total/NA	Analysis	1010A		1	699519	KM	EET BUF	01/31/24 11:06
Total/NA	Prep	7.3.3			699681	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9012		1	699796	AM	EET BUF	02/02/24 13:31
Total/NA	Prep	7.3.4			699682	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9034		1	699790	AM	EET BUF	02/02/24 16:25
Total/NA	Analysis	9045D		1	699787	KB	EET BUF	02/02/24 13:43
Total/NA	Analysis	Moisture		1	699563	JMM	EET BUF	01/31/24 15:56

Client Sample ID: F-LOA-02-01302024

Lab Sample ID: 480-216732-2

Date Collected: 01/30/24 13:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			699570	CDC	EET BUF	01/31/24 16:00
Total/NA	Analysis	8260C		1	699571	CDC	EET BUF	01/31/24 22:02
Total/NA	Prep	3550C			699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D		1	699589	EMD	EET BUF	02/01/24 19:50
Total/NA	Prep	7471B			699638	NVK	EET BUF	02/01/24 12:04
Total/NA	Analysis	7471B		1	699664	NVK	EET BUF	02/01/24 14:26

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699601	SMP	EET BUF	02/01/24 08:05 - 02/02/24 09:34 ¹
TCLP	Analysis	8260C		10	699845	CC	EET BUF	02/05/24 14:42

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Lab Chronicle

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699753	LSC	EET BUF	02/02/24 13:57
TCLP	Analysis	8270D		1	699859	EMD	EET BUF	02/05/24 17:24
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699748	LSC	EET BUF	02/02/24 13:49
TCLP	Analysis	8081B		1	699852	MAN	EET BUF	02/05/24 14:34
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	8151A			699705	JMP	EET BUF	02/02/24 09:11
TCLP	Analysis	8151		1	699867	MAN	EET BUF	02/05/24 15:23
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3010A			699709	ESB	EET BUF	02/02/24 09:46
TCLP	Analysis	6010C		1	699805	BMB	EET BUF	02/03/24 00:44
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	7470A			699712	NVK	EET BUF	02/02/24 11:25
TCLP	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 16:02
Total/NA	Analysis	1010A		1	699605	KM	EET BUF	02/01/24 09:04
Total/NA	Prep	7.3.3			699681	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9012		1	699796	AM	EET BUF	02/02/24 13:32
Total/NA	Prep	7.3.4			699682	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9034		1	699790	AM	EET BUF	02/02/24 16:25
Total/NA	Analysis	9045D		1	699787	KB	EET BUF	02/02/24 13:43
Total/NA	Analysis	Moisture		1	699563	JMM	EET BUF	01/31/24 15:56

Client Sample ID: F-LOA-03-01302024

Lab Sample ID: 480-216732-3

Date Collected: 01/30/24 14:00

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 69.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			699607	ZN	EET BUF	02/02/24 09:13
Total/NA	Analysis	8260C		4	699697	ZN	EET BUF	02/02/24 14:19
Total/NA	Prep	5035A_H	DL		699607	ZN	EET BUF	02/02/24 09:13
Total/NA	Analysis	8260C	DL	8	699828	ZN	EET BUF	02/05/24 12:09
Total/NA	Prep	3550C			699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D		1	699589	EMD	EET BUF	02/01/24 20:14
Total/NA	Prep	7471B			699638	NVK	EET BUF	02/01/24 12:04
Total/NA	Analysis	7471B		1	699664	NVK	EET BUF	02/01/24 14:31

Client Sample ID: F-LOA-04-01302024

Lab Sample ID: 480-216732-4

Date Collected: 01/30/24 11:45

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699601	SMP	EET BUF	02/01/24 08:05 - 02/02/24 09:34 ¹
TCLP	Analysis	8260C		10	699845	CC	EET BUF	02/05/24 15:04

Lab Chronicle

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-04-01302024
Date Collected: 01/30/24 11:45
Date Received: 01/30/24 16:00

Lab Sample ID: 480-216732-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699753	LSC	EET BUF	02/02/24 13:57
TCLP	Analysis	8270D		1	699859	EMD	EET BUF	02/05/24 17:49
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699748	LSC	EET BUF	02/02/24 13:49
TCLP	Analysis	8081B		1	699852	MAN	EET BUF	02/05/24 14:53
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	8151A			699705	JMP	EET BUF	02/02/24 09:11
TCLP	Analysis	8151		1	699867	MAN	EET BUF	02/05/24 15:42
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3010A			699709	ESB	EET BUF	02/02/24 09:46
TCLP	Analysis	6010C		1	699805	BMB	EET BUF	02/03/24 00:48
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	7470A			699712	NVK	EET BUF	02/02/24 11:25
TCLP	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 16:04
Total/NA	Analysis	1010A		1	699605	KM	EET BUF	02/01/24 09:04
Total/NA	Prep	7.3.3			699681	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9012		1	699796	AM	EET BUF	02/02/24 13:34
Total/NA	Prep	7.3.4			699682	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9034		1	699790	AM	EET BUF	02/02/24 16:25
Total/NA	Analysis	9045D		1	699787	KB	EET BUF	02/02/24 13:43
Total/NA	Analysis	Moisture		1	699563	JMM	EET BUF	01/31/24 15:56

Client Sample ID: F-LOA-04-01302024
Date Collected: 01/30/24 11:45
Date Received: 01/30/24 16:00

Lab Sample ID: 480-216732-4
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			699607	ZN	EET BUF	02/02/24 09:13
Total/NA	Analysis	8260C		1	699697	ZN	EET BUF	02/02/24 14:42
Total/NA	Prep	3550C			699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D		1	699589	EMD	EET BUF	02/01/24 19:02
Total/NA	Prep	3550C	DL		699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D	DL	10	699735	EMD	EET BUF	02/02/24 13:29
Total/NA	Prep	1633 Shake			642488	MAC	EET DEN	02/09/24 09:10
Total/NA	Analysis	Draft 1633		1	642832	SM	EET DEN	02/14/24 03:50
Total/NA	Prep	7471B			699638	NVK	EET BUF	02/01/24 12:04
Total/NA	Analysis	7471B		1	699664	NVK	EET BUF	02/01/24 14:32

Lab Chronicle

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699601	SMP	EET BUF	02/01/24 08:05 - 02/02/24 09:34 ¹
TCLP	Analysis	8260C		10	699845	CC	EET BUF	02/05/24 15:27
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699753	LSC	EET BUF	02/02/24 13:57
TCLP	Analysis	8270D		1	699859	EMD	EET BUF	02/05/24 18:13
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699748	LSC	EET BUF	02/02/24 13:49
TCLP	Analysis	8081B		1	699852	MAN	EET BUF	02/05/24 15:13
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	8151A			699705	JMP	EET BUF	02/02/24 09:11
TCLP	Analysis	8151		1	699867	MAN	EET BUF	02/05/24 16:00
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3010A			699709	ESB	EET BUF	02/02/24 09:46
TCLP	Analysis	6010C		1	699805	BMB	EET BUF	02/03/24 00:52
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	7470A			699712	NVK	EET BUF	02/02/24 11:25
TCLP	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 16:05
Total/NA	Analysis	1010A		1	699605	KM	EET BUF	02/01/24 09:04
Total/NA	Prep	7.3.3			699681	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9012		1	699796	AM	EET BUF	02/02/24 13:35
Total/NA	Prep	7.3.4			699682	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9034		1	699790	AM	EET BUF	02/02/24 16:25
Total/NA	Analysis	9045D		1	699787	KB	EET BUF	02/02/24 13:43
Total/NA	Analysis	Moisture		1	699563	JMM	EET BUF	01/31/24 15:56

Client Sample ID: F-LOA-05-01302024

Lab Sample ID: 480-216732-5

Date Collected: 01/30/24 13:45

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			699570	CDC	EET BUF	01/31/24 16:00
Total/NA	Analysis	8260C		1	699571	CDC	EET BUF	01/31/24 22:27
Total/NA	Prep	3550C			699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D		1	699589	EMD	EET BUF	02/01/24 20:38
Total/NA	Prep	7471B			699638	NVK	EET BUF	02/01/24 12:04
Total/NA	Analysis	7471B		1	699664	NVK	EET BUF	02/01/24 14:34

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699601	SMP	EET BUF	02/01/24 08:05 - 02/02/24 09:34 ¹
TCLP	Analysis	8260C		10	699845	CC	EET BUF	02/05/24 15:49

Eurofins Buffalo

Lab Chronicle

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699753	LSC	EET BUF	02/02/24 13:57
TCLP	Analysis	8270D		1	699859	EMD	EET BUF	02/05/24 18:38
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3510C			699748	LSC	EET BUF	02/02/24 13:49
TCLP	Analysis	8081B		1	699852	MAN	EET BUF	02/05/24 15:32
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	8151A			699705	JMP	EET BUF	02/02/24 09:11
TCLP	Analysis	8151		1	699867	MAN	EET BUF	02/05/24 16:18
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	3010A			699709	ESB	EET BUF	02/02/24 09:46
TCLP	Analysis	6010C		1	699805	BMB	EET BUF	02/03/24 00:55
TCLP	Leach	1311			699598	SMP	EET BUF	02/01/24 07:58 - 02/02/24 08:59 ¹
TCLP	Prep	7470A			699712	NVK	EET BUF	02/02/24 11:25
TCLP	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 16:06
Total/NA	Analysis	1010A		1	699605	KM	EET BUF	02/01/24 09:04
Total/NA	Prep	7.3.3			699681	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9012		1	699796	AM	EET BUF	02/02/24 13:36
Total/NA	Prep	7.3.4			699682	AM	EET BUF	02/01/24 11:40
Total/NA	Analysis	9034		1	699790	AM	EET BUF	02/02/24 16:25
Total/NA	Analysis	9045D		1	699787	KB	EET BUF	02/02/24 13:43
Total/NA	Analysis	Moisture		1	699563	JMM	EET BUF	01/31/24 15:56

Client Sample ID: F-LOA-06-01302024

Lab Sample ID: 480-216732-6

Date Collected: 01/30/24 11:30

Matrix: Solid

Date Received: 01/30/24 16:00

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			699607	ZN	EET BUF	02/02/24 09:13
Total/NA	Analysis	8260C		1	699697	ZN	EET BUF	02/02/24 15:05
Total/NA	Prep	3550C			699565	SJM	EET BUF	01/31/24 16:11
Total/NA	Analysis	8270D		1	699589	EMD	EET BUF	02/01/24 21:03
Total/NA	Prep	7471B			699638	NVK	EET BUF	02/01/24 12:04
Total/NA	Analysis	7471B		1	699664	NVK	EET BUF	02/01/24 14:37

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	699604	CC	EET BUF	02/01/24 19:57
Total/NA	Prep	3510C			699657	LSC	EET BUF	02/01/24 13:52
Total/NA	Analysis	8270D		1	699935	EMD	EET BUF	02/06/24 16:26
Total/NA	Prep	3510C	DL		699657	LSC	EET BUF	02/01/24 13:52
Total/NA	Analysis	8270D	DL	50	700197	EMD	EET BUF	02/08/24 18:00

Eurofins Buffalo

Lab Chronicle

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Client Sample ID: F-LOA-07-01292024

Lab Sample ID: 480-216732-7

Date Collected: 01/29/24 13:30

Matrix: Water

Date Received: 01/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			699711	NVK	EET BUF	02/02/24 11:25
Total/NA	Analysis	7470A		1	699779	NVK	EET BUF	02/02/24 15:51
Total/NA	Analysis	1010A		1	699605	KM	EET BUF	02/01/24 09:04
Total/NA	Analysis	350.1		10	699609	CLT	EET BUF	02/01/24 08:16
Total/NA	Analysis	9040C		1	699684	KB	EET BUF	02/01/24 16:50

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Inventum Engineering LLC
 Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
6010C	3010A	Solid	Arsenic
6010C	3010A	Solid	Barium
6010C	3010A	Solid	Cadmium
6010C	3010A	Solid	Chromium
6010C	3010A	Solid	Lead
6010C	3010A	Solid	Selenium
6010C	3010A	Solid	Silver
7470A	7470A	Solid	Mercury
8081B	3510C	Solid	Chlordane (technical)
8081B	3510C	Solid	Endrin
8081B	3510C	Solid	gamma-BHC (Lindane)
8081B	3510C	Solid	Heptachlor
8081B	3510C	Solid	Heptachlor epoxide
8081B	3510C	Solid	Methoxychlor
8081B	3510C	Solid	Toxaphene
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9040C		Water	pH
9040C		Water	Temperature
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	59923	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Draft 1633	1633 Shake	Solid	11CI-PF3OUdS
Draft 1633	1633 Shake	Solid	3:3 FTCA
Draft 1633	1633 Shake	Solid	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
Draft 1633	1633 Shake	Solid	4:2 FTS
Draft 1633	1633 Shake	Solid	5:3 FTCA
Draft 1633	1633 Shake	Solid	6:2 FTS
Draft 1633	1633 Shake	Solid	7:3 FTCA
Draft 1633	1633 Shake	Solid	9CI-PF3ONS
Draft 1633	1633 Shake	Solid	HFPO-DA (GenX)
Draft 1633	1633 Shake	Solid	NETFOSA
Draft 1633	1633 Shake	Solid	NETFOSE
Draft 1633	1633 Shake	Solid	NFDHA

Accreditation/Certification Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Laboratory: Eurofins Denver (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Draft 1633	1633 Shake	Solid	NMeFOSA
Draft 1633	1633 Shake	Solid	NMeFOSE
Draft 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid (PFBS)
Draft 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid (PFDS)
Draft 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid (PFHpS)
Draft 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid (PFHxS)
Draft 1633	1633 Shake	Solid	Perfluorononanesulfonic acid (PFNS)
Draft 1633	1633 Shake	Solid	Perfluorooctanesulfonamide (PFOSA)
Draft 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid (PFPeS)
Draft 1633	1633 Shake	Solid	PFEESA
Draft 1633	1633 Shake	Solid	PFMBA
Draft 1633	1633 Shake	Solid	PFMPA

Method Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	EET BUF
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8151	TCLP Herbicides	SW846	EET BUF
Draft 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
7470A	TCLP Mercury	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
1010A	Ignitability, Pinsky-Martens Closed-Cup Method	SW846	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
9012	Cyanide, Reactive	SW846	EET BUF
9034	Sulfide, Reactive	SW846	EET BUF
9040C	pH	SW846	EET BUF
9045D	pH	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
3010A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
5035A_H	Closed System Purge and Trap	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7.3.3	Cyanide, Reactive	SW846	EET BUF
7.3.4	Sulfide, Reactive	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Inventum Engineering LLC
Project/Site: RITC - 3875 River Road, Tonawanda NY

Job ID: 480-216732-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-216732-1	F-LOA-01-01302024	Solid	01/30/24 14:15	01/30/24 16:00
480-216732-2	F-LOA-02-01302024	Solid	01/30/24 13:30	01/30/24 16:00
480-216732-3	F-LOA-03-01302024	Solid	01/30/24 14:00	01/30/24 16:00
480-216732-4	F-LOA-04-01302024	Solid	01/30/24 11:45	01/30/24 16:00
480-216732-5	F-LOA-05-01302024	Solid	01/30/24 13:45	01/30/24 16:00
480-216732-6	F-LOA-06-01302024	Solid	01/30/24 11:30	01/30/24 16:00
480-216732-7	F-LOA-07-01292024	Water	01/29/24 13:30	01/30/24 16:00

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- 14
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- 16

Chain of Custody Record

Client Information Client Contact: Mr. James Edwards Company: Inventum Engineering LLC Address: 441 Carlisle Drive Suite C City: Herndon State, Zip: VA, 20170 Phone: 571-752-6562 (Tel) Email: james.edwards@inventumeng.com Project Name: 3875 2000 River Road - Tonawanda, NY Site: RITC		Sampler: Peter Zaffan Phone: 716-553-5729 Lab PM: Fischer, Brian J E-Mail: Brian.Fischer@et.eurofins.com		COC No: 480-192415-40293.2 Page: Page 2 of 2 Job #:												
Due Date Requested: TAT Requested (days): Standard Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: Purchase Order not required WO #: FLOA Project #: 48026863 SOW#: FLOA		Camer Tracking No(s): State of Origin: NY														
Sample Identification		Analysis Requested														
Sample ID F-LOA-01 - 01302024 F-LOA-02 - 01302024 F-LOA-03 - 01302024 F-LOA-04 - 01302024 F-LOA-05 - 01302024 F-LOA-06 - 01302024 F-LOA-07 - 01292024	Sample Date 01/30/24 01/30/24 01/30/24 01/30/24 01/30/24 01/29/24	Sample Time 1415 1330 1400 1145 1345 1330	Sample Type (C=Comp, G=grab) G Solid Solid Solid Solid Solid Water	Matrix (W=water, S=solid, O=other, A=air) Solid Solid Solid Solid Solid Water	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Perform MS/MS (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9012 ReactiveCN, 9034 Reactive <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6010C, 7470A, 8081B, 8151A, 8270D (TCLP)	8260C - TCLP Volatiles <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1010A, 9045D <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8260C - TCL VOCs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7471B - Mercury <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8270D - TCL SVOCs + 1,4 Dioxane <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Total Number of Containers 350	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify)	Special Instructions/Note: Please Report to MDL
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)														
Empty Kit Relinquished by:		Special Instructions/QC Requirements:														
Relinquished by: <i>[Signature]</i> Relinquished ready:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Date/Time: 1/30/2024 600 Date/Time:		Method of Shipment:														
Date/Time: 1/30/2024 600 Date/Time:		Received by: <i>[Signature]</i> 1/30/24 1406 Received by:														
Date/Time:		Received by:														
Date/Time:		Received by:														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 6.4 7.9 # 10 JCF														



Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-216732-1

Login Number: 216732

List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	ADDITIONAL CONTAINER REQUESTED METHOD NOT ON COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	INN
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Inventum Engineering LLC

Job Number: 480-216732-1

Login Number: 216732

List Number: 2

Creator: Little, Matthew L

List Source: Eurofins Denver

List Creation: 02/01/24 01:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

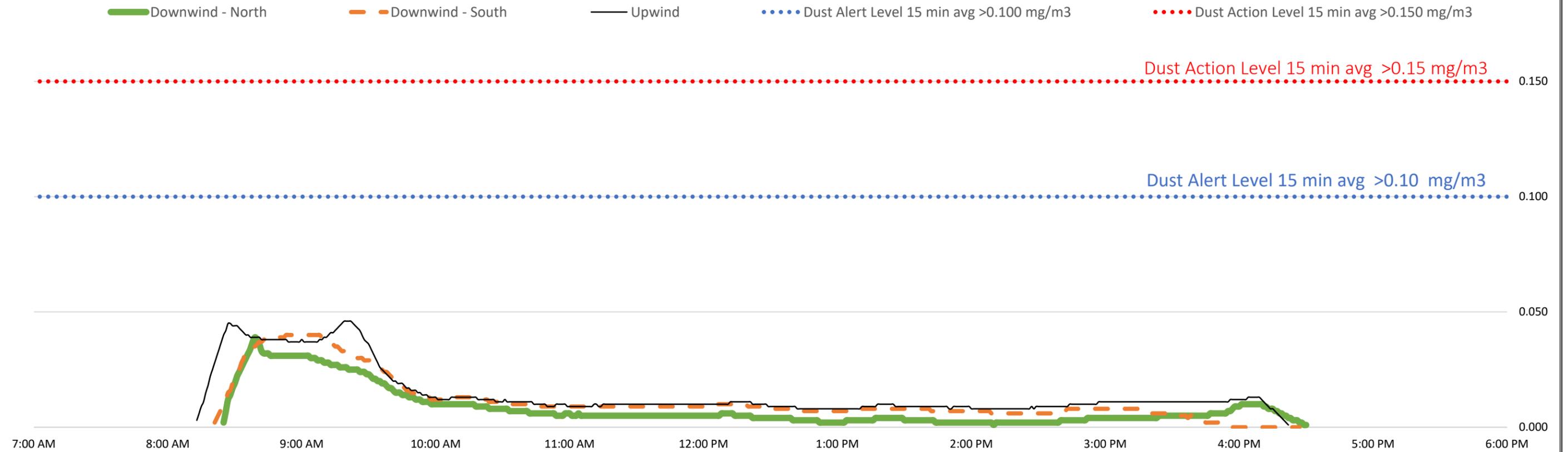


Appendix B – CAMP Data

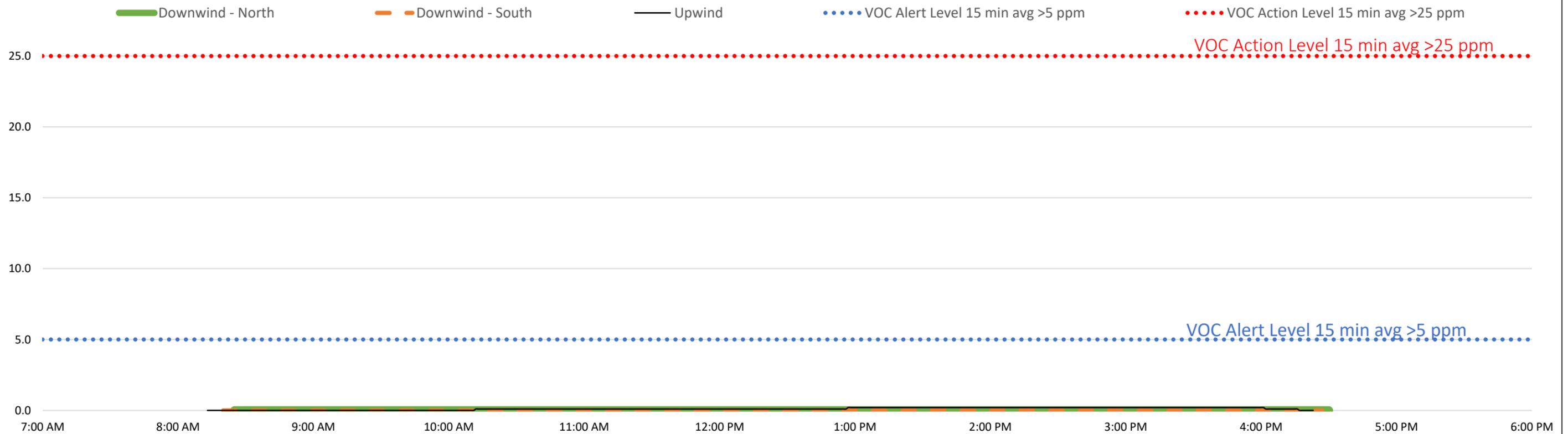


Fixed Station Daily Air Monitoring - December 14, 2021

Dust (mg/m3) 15 min avg

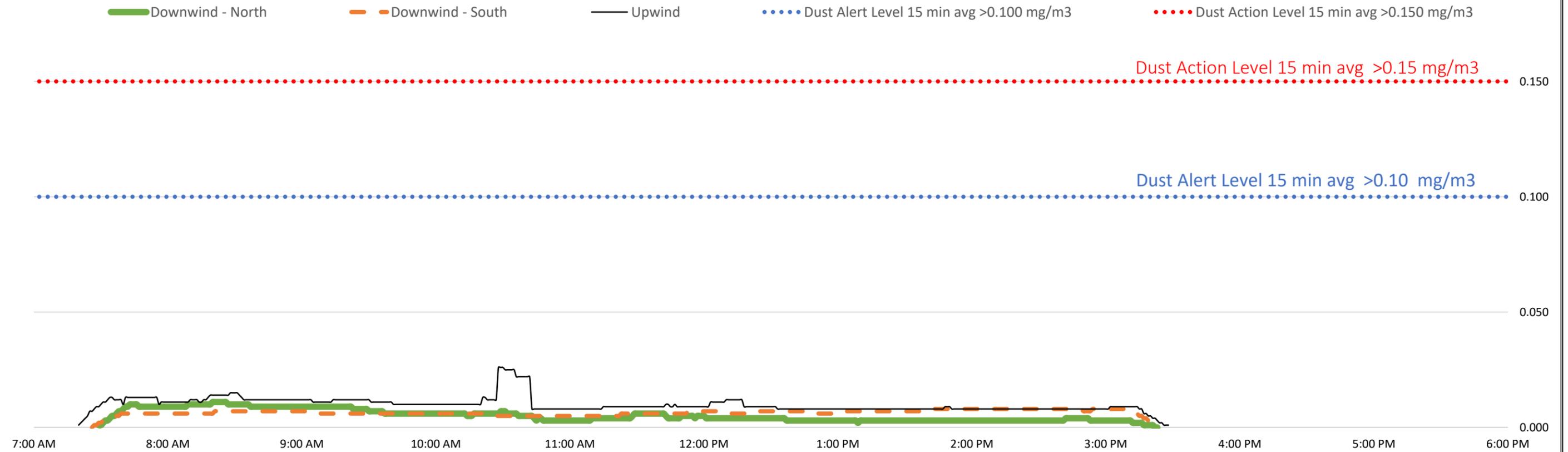


VOC (ppm) 15 min avg

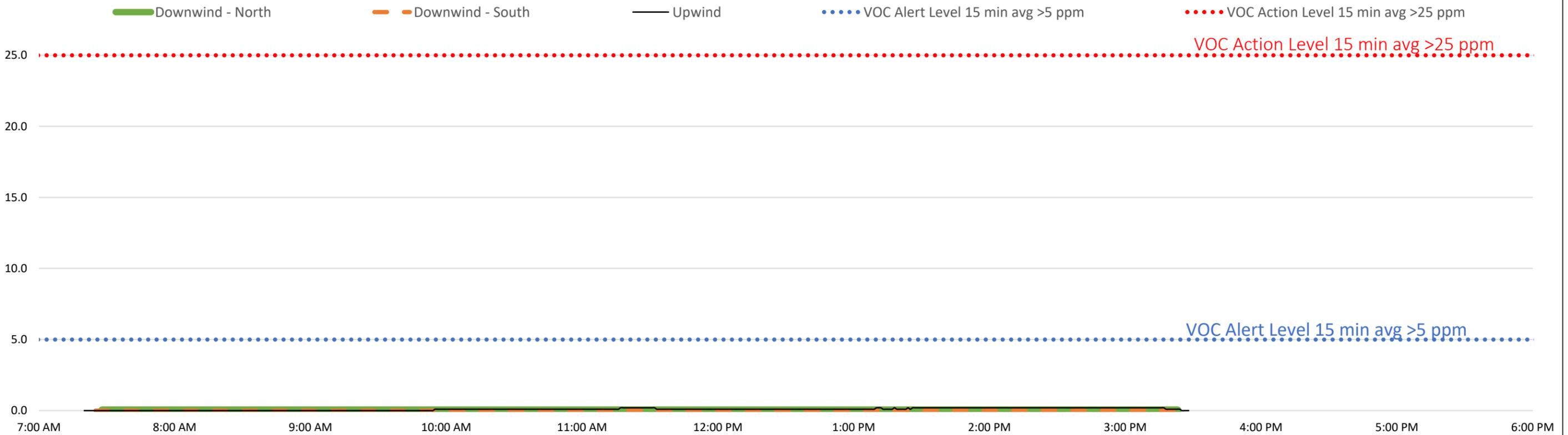


Fixed Station Daily Air Monitoring - September 30, 2022

Dust (mg/m3) 15 min avg

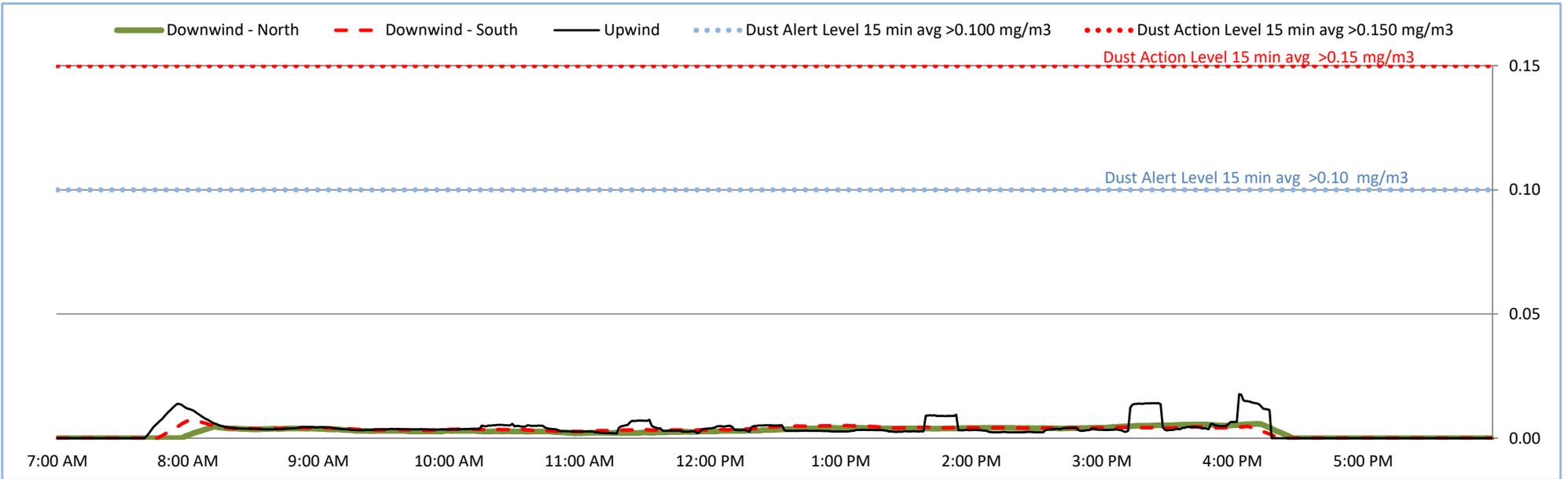


VOC (ppm) 15 min avg

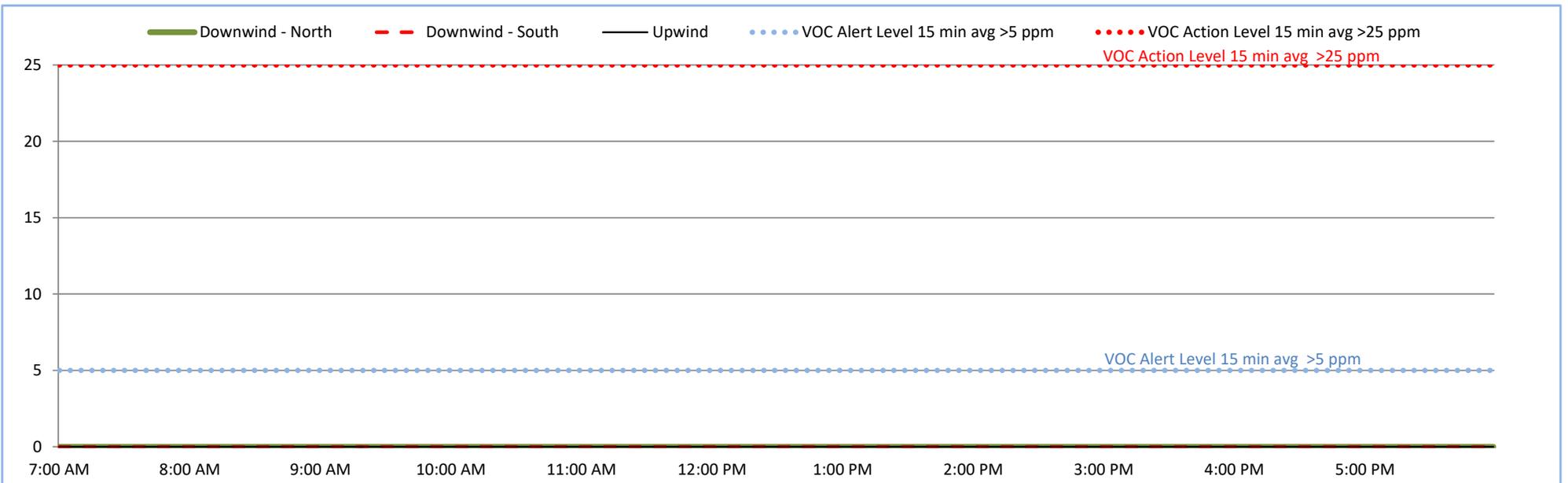


Fixed Station Daily Air Monitoring - November 8, 2022

Dust (mg/m3) 15 min avg

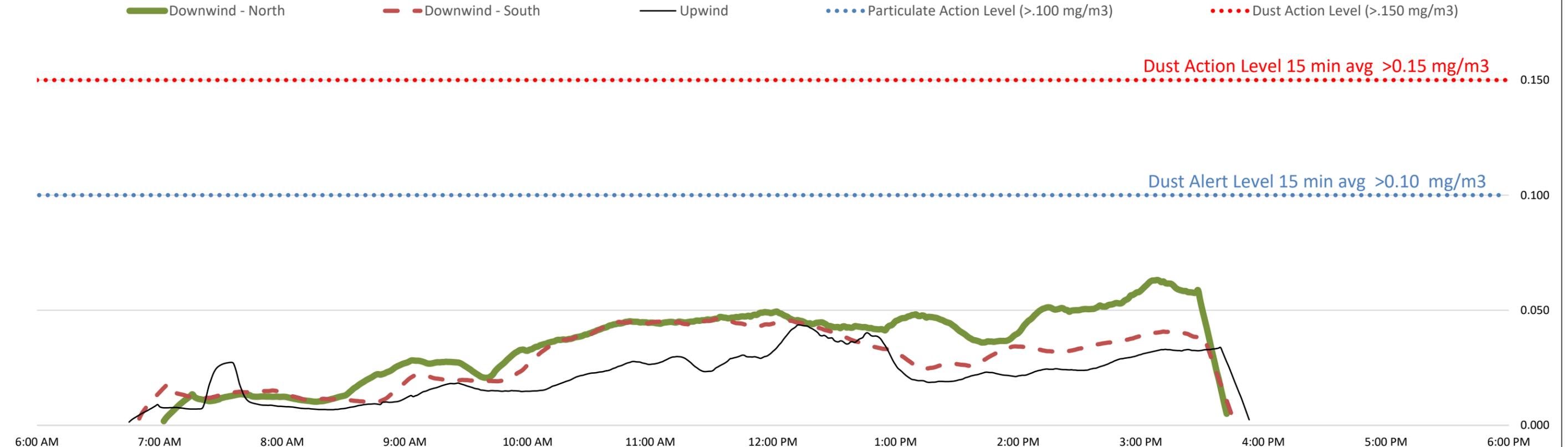


VOC (ppm) 15 min avg

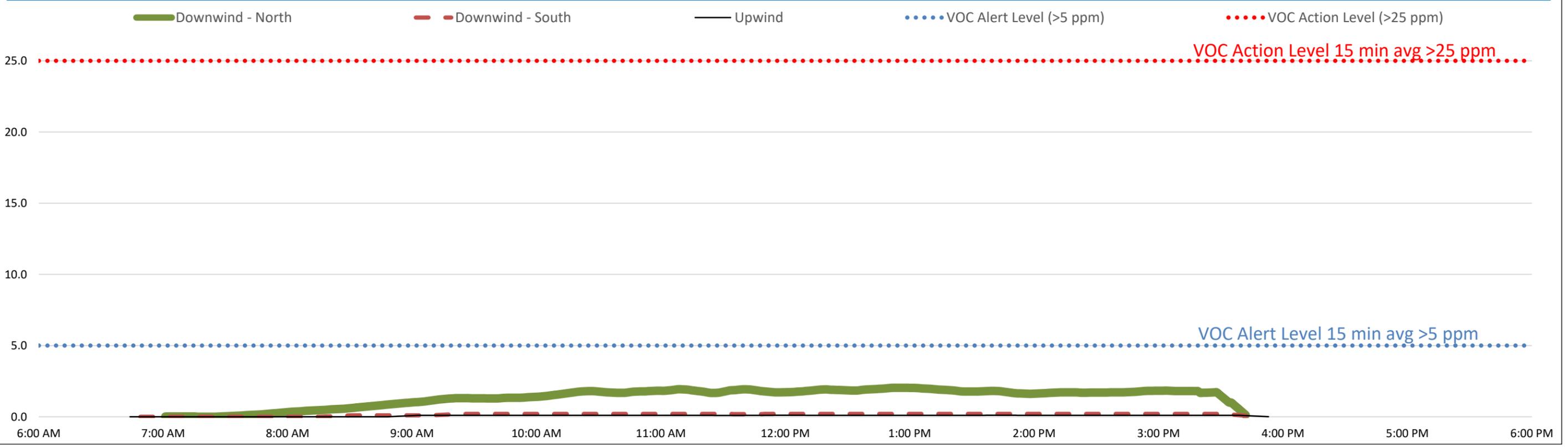


Fixed Station Daily Air Monitoring - January 24, 2024

Dust (mg/m3) 15 min avg

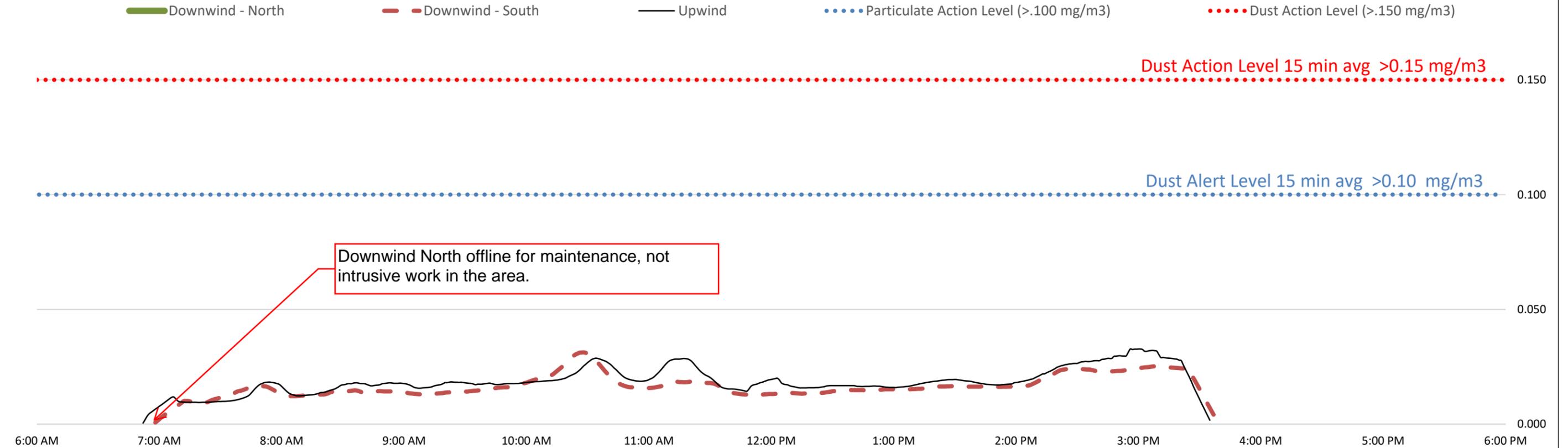


VOC (ppm) 15 min avg

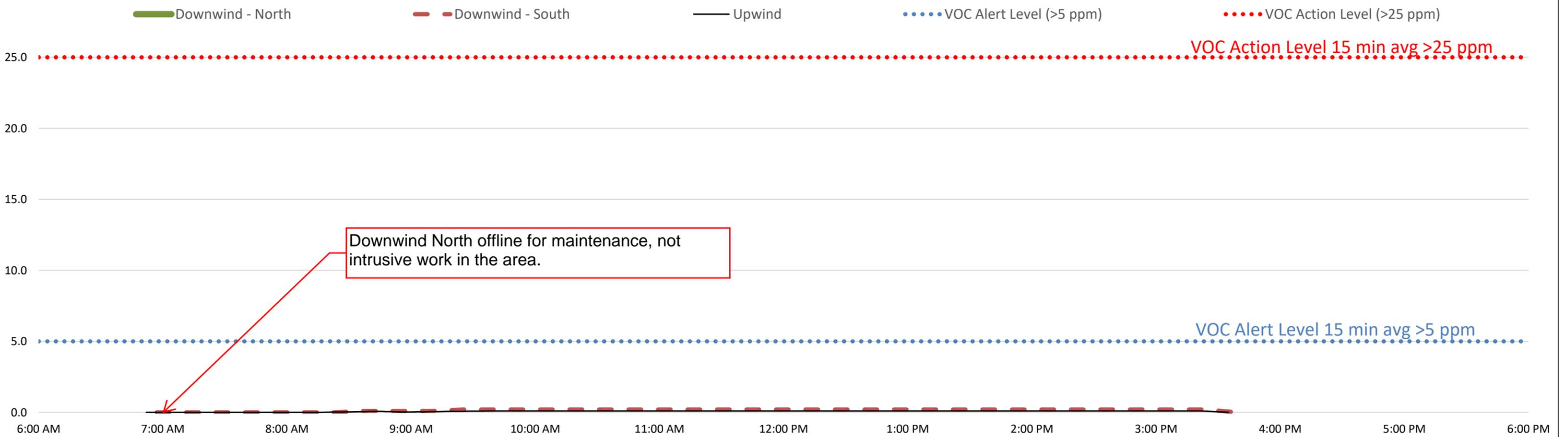


Fixed Station Daily Air Monitoring - January 25, 2024

Dust (mg/m3) 15 min avg

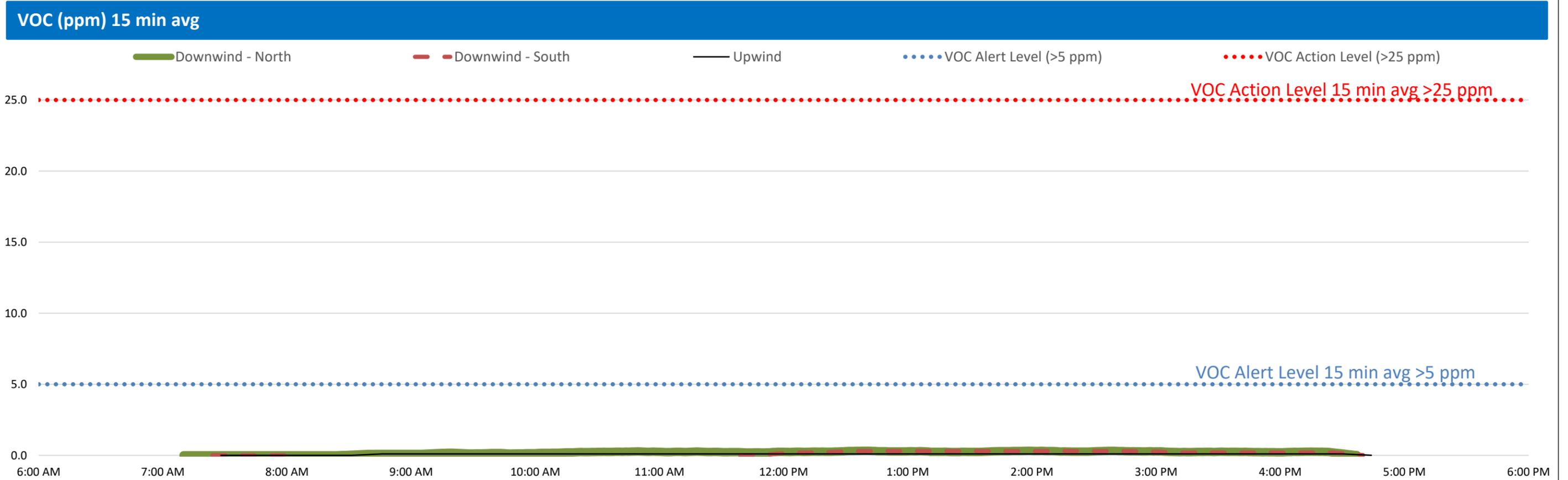
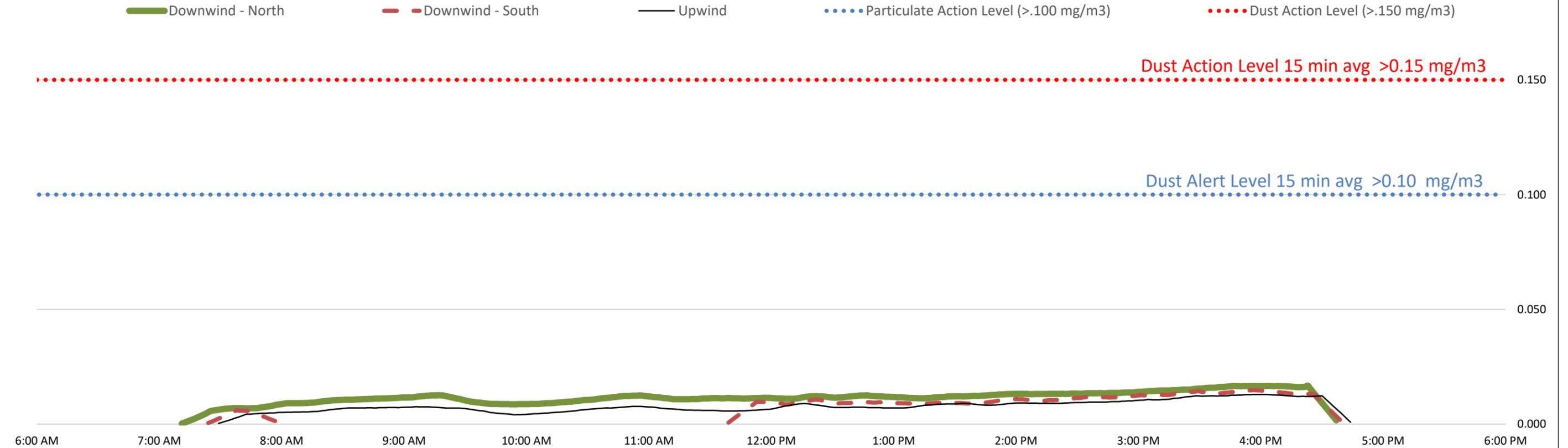


VOC (ppm) 15 min avg



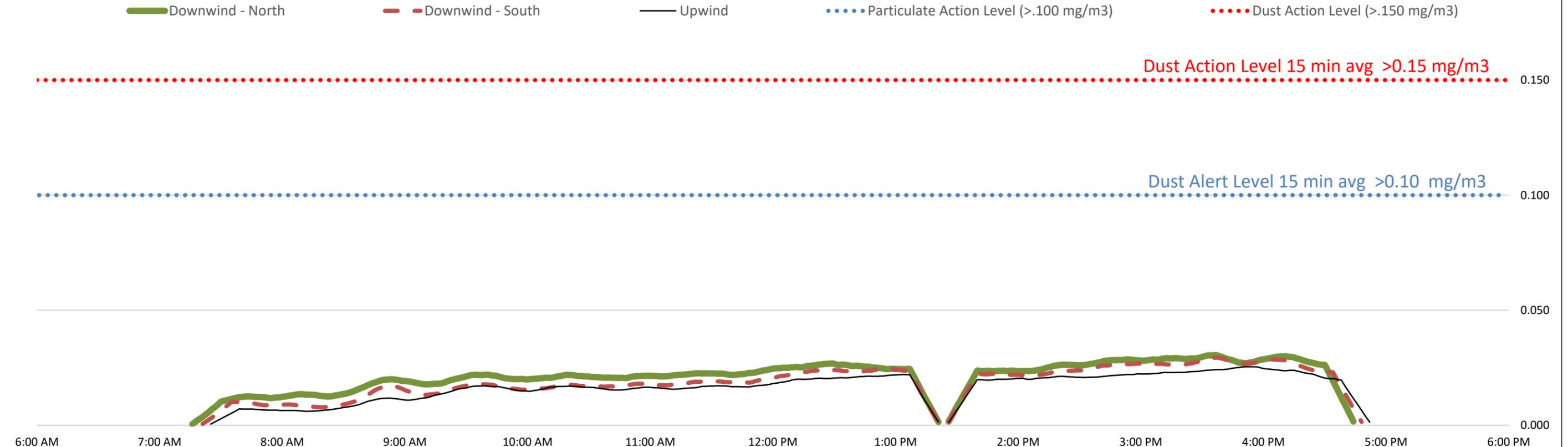
Fixed Station Daily Air Monitoring - January 29, 2024

Dust (mg/m3) 15 min avg



Fixed Station Daily Air Monitoring - January 30, 2024

Dust (mg/m3) 15 min avg



VOC (ppm) 15 min avg

