Limited Phase II Environmental Investigation

A Portion of 703 East Delavan Avenue
Buffalo, New York

April 2021 0408-021-002

Prepared For:

People Inc.

Prepared By:

BENCHMARK
ENVIRONMENTAL
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LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

Southern Portion of 703 East Delavan Avenue
Buffalo, New York

April 2021 B0408-021-001

Prepared for:

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Williamsville, NY 14221

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LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

Southern Portion of 703 East Delavan Avenue
Buffalo, New York

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1.0 INTRODUCTION

1.1 Background and Site Description

Benchmark Environmental Engineering & Science, PLLC (Benchmark) performed a Limited Phase II Environmental Investigation on behalf of People Inc. on the southern approximate 1.2-acre portion of a parcel located at 703 East Delavan Avenue, City of Buffalo, Erie County, New York (Site, see Figure 1).

The Site is located in a highly developed commercial, industrial, and residential area of City of Buffalo (see Figure 1). The Site is currently an approximate 1.2-acre portion of a larger 4.6-acre property addressed at 703 East Delavan Avenue (SBL # 90.78-5-1.1). As shown on Figure 2, the Site is currently vacant land that is used as a grass covered athletic field with a portion of an associated asphalt parking lot on the northern portion of the Site. The greater property is currently and has historically been developed with a church building.

We understand that the Site is slated for development as a senior housing complex.

Previous studies, including a Phase I Environmental Site Assessment (ESA) and subsurface geotechnical investigation, have been completed for the Site. The purpose of Benchmark's Limited Phase II work was to assess subsurface conditions within the footprint of the proposed building and determine if the soil/fill present is potentially contaminated and could potentially complicate the redevelopment/reuse of the Site.

Additional information relative to the work completed by Benchmark and others is provided below.

1.2 Previous Studies

A geotechnical engineering[1] report was completed by Terracon Consultants-NY, Inc. The report was completed to provide information and geotechnical engineering recommendations relative to the construction of a proposed senior housing project planned to be completed on the approximate 1.2-acre portion of the 703 East Delavan Avenue Site. The assessment included the advancement of seventeen (17) test borings to depths ranging

[1] "Geotechnical Engineering Report, 3 Story Senior housing, Buffalo, New York". Prepared by Terracon Consultants-NY, Inc. Prepared for Silvestri Architects, PC. February 8, 2021.

from approximately 1.6 to 6 feet below existing grades throughout the Site. The following summarizes the report:

- The Site is developed with a grass-covered athletic field with associated paved areas in the northern portion of the Site.
- Fill material consisting of a mixture of red-brown and black silt and sand with rock, brick, concrete fragments, and cinders was encountered at ranging depths varying from 0.5 to 4 feet below ground surface (fbgs) at 15 of the 17 test borings completed throughout the property.
- Bedrock was encountered at varying depths between 2 to 4 fbgs.
- Groundwater was generally not observed in the borings during the assessment.
- Regarding the presence of fill materials on the Site the report stated that "If the owner elects to leave existing fills in place beneath new building floor slabs, proof-rolling and stabilization of the subgrades as described herein will lessen but cannot eliminate the risk of settlement. If this risk cannot be accepted, the existing fills should be removed and replaced in their entirety as part of the site preparation."

A February 2021 Phase I ESA[2] performed by Benchmark for People Inc. identified the following recognized environmental conditions (RECs) for the Site:

- A previous geotechnical report completed by Terracon Consultants identified fill materials across the Site consisting of mixtures of red-brown and black silt and sand with cinders and fragments of rock, brick, and concrete. Miscellaneous urban fill materials from unknown sources are considered a REC due to the potential for impacts.
- The Site is located in a historically industrial area with fuel oil and gasoline storage tanks and an oil storage area identified in close proximity to the Site. In addition, historic automobile repair and rug/furniture cleaning, possibly with dry-cleaning operations, were identified adjacent to the Site. These adjacent and nearby operations represent RECs and a potential VEC at the Site.

Due to the RECs detailed above, Benchmark recommended completion of a Limited Phase II Environmental Investigation assess the RECs associated with soil/fill material present at the Site.

[2] "Phase I Environmental Site Assessment, A Portion of 703 East Delavan Avenue, Buffalo, New York" Prepared by Benchmark Environmental Engineering and Science, PLLC. Prepared for People Inc. March 2021

2.0 LIMITED PHASE II INVESTIGATION ACTIVITIES

2.1 Test Pit Investigation

On February 24, 2021, Benchmark's subcontractor, TurnKey Environmental Restoration, LLC (TurnKey), mobilized a track-mounted excavator to the Site to assess whether subsurface environmental impacts exist due to the presence of fill material present at the Site. As shown on Figure 2, eight (8) test pits designated as TP-1 through TP-8 were completed on the Site within the footprints of the proposed redevelopment area. The test pits were advanced to the top of bedrock which was encountered at a depth of 1 to 2 feet fbgs at the investigation locations.

The soil/fill samples were retrieved from the test pit locations to allow for field characterization of the subsurface lithology and collection of soil/fill samples by Benchmark's environmental scientist. The physical characteristics of the subsurface soil/fill at the test pit locations were classified using the ASTM D2488 Visual-Manual Procedure Description. Soil/fill from each test pit was field screened using a MiniRae 3000 Photoionization Detector (PID). Visual and/or olfactory observations were also noted, if observed. Field observations, including lithology, depths, PID field screen results, etc., at the test pit locations are summarized in the Summary of Subsurface Field Observations provided in Table 1.

Eight (8) soil/fill samples were selected for laboratory analysis and were transported under chain-of custody command to Alpha Analytical (Alpha) in Westborough, Massachusetts (see Table 2). Sample analysis included semi-volatile organic compounds (SVOCs) using the Target Compound List (TCL) base-neutral list, Resource Conservation and Recovery Act (RCRA) 8 metals, and polychlorinated biphenyls (PCBs). Samples were collected in laboratory provided sample bottles, cooled to 4^0 C in the field, and transported to the laboratory for analysis.

2.2 Bedrock Well Installation

On April 7, 2021, Benchmark's subcontractor, NW Contracting, mobilized a drill rig to the Site to install a bedrock groundwater well (MW-1, see Figure 2). The well was installed in the northwestern portion of the Site across the street from the former

rug/furniture cleaning operation (possibly with dry-cleaning operations) which was identified adjacent to the Site.

The hollow stem augers were advanced to 3.5 fbgs (competent bedrock) and the bedrock was cored using a 3-inch diameter core barrel from 3.5 feet to a depth of 15 fbgs. A 2-inch diameter PVC well was installed using a 10-foot well screen and 3.5-foot PVC riser pipe. The sand pack was installed from 3.5 to 15 fbgs and bentonite seal was installed from 1 to 3.5 fbgs. The well was finished with a flush-mounted road box.

The depth to groundwater was measured within the well on April 8th, April 15th, and April 23rd was about 13 to 13.5 fbgs and approximately 2-gallons of water (8 well volumes) was removed until the well went dry. On April 23rd, the well was purged and after recovery sampled for TCL volatile organic compounds (VOCs). The sample was collected in laboratory provided sample bottles, cooled to 4^0 C in the field, and transported to the laboratory for analysis.

3.0 INVESTIGATION FINDINGS

3.1 Site Geology

The surface of the Site generally consisted of a vegetative topsoil cover (athletic playing field) and a small portion of an associated asphalt parking lot on the northern portion of the Site. Test pits were only completed in the athletic playing field area to avoid damaging the asphalt parking lot.

The subsurface conditions of the Site consisted of varying types of fill materials ranging in depth from 3-inches to 2 fbgs. Evidence of fill materials were observed at the test pit locations with the exception of TP-6. Silty sand and/or fine sand (potentially native soils) were encountered at TP-6, -7 and -8 underlying the fill material.

Bedrock, (weathered limestone) was encountered at each test pit location at approximately 1 to 2 fbgs.

Field observations, including lithology, depths, PID scan results, etc., at the test pit locations are summarized in the Summary of Subsurface Field Observations Table provided in Table 1.

Groundwater was encountered in the upper bedrock (Onondaga limestone) at approximately 13 to 13.5 fbgs. Groundwater flow is assumed to be in a westerly direction toward the Scajaquada Creek and Lake Erie or consistent with topography in the area of the Site. However, local groundwater flow may be influenced by subsurface features such as excavations, utilities, and localized fill-conditions.

3.2 Field Observations

Soil/fill samples from the test pit investigation were observed and field screened for total volatile organics using a PID. No visual or olfactory evidence of impacts were observed, nor were elevated PID readings identified at the test pit locations.

Fill materials contained various amounts of black fines, brick, concrete debris, slag, cinders, wood, glass, and coal.

3.3 Soil Analytical Results

Table 2 is summary of the analytical samples collected for analysis and the analytical testing assigned. Table 3 presents a summary of the analytical results from the eight (8) soil/fill samples that were analyzed. For comparative purposes, Table 3 includes the Part 375 Soil Cleanup Objectives (SCOs).

Part 375 SCOs are specific to the intended reuse of a site and are typically employed for comparison at other investigation or remediation sites with NYSDEC oversight, such as Brownfield sites. Based upon the anticipated future use of the Site in a multi-story, multi-unit residential capacity, the Restricted Residential SCOs are considered applicable comparative criteria.

A copy of the laboratory analytical data report is included in Appendix A.

Semi-Volatile Organic Compounds

SVOCs were detected above MDLs in the four (4) samples analyzed for the SVOC base-neutral list. SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs), were detected above their respective Part 375 RRSCOs, Commercial SCOs (CSCOs), and/or Industrial SCOs (ISCOs) at three (3) of the four (4) investigation locations, TP-1, TP-3, and TP-7. These sample locations are shown in on Figure 2.

- Benzo(a)anthracene and indeno(1,2,3-cd)pyrene exceeded their respective RRSCOs at three (3) locations: TP-1, 3-in to 1.5 ft; TP-3, 3-in to 1 ft; and TP-7, 3-in to 1 ft.
- Benzo(a)pyrene exceeded its ISCO at three (3) locations: TP-1, 3-inches to 1.5 feet; TP-3, 3-in to 1 ft; and TP-7, 3-in to 1 ft.
- Benzo(b)fluoranthene exceeded its RRSCOs at two (2) locations: TP-1, 3-in to 1.5 ft; TP-3, 3-in to 1 ft; and its CSCOs at one (1) location, TP-7, 3-in to 1 ft.
- Chrysene exceeded its RRSCO at one (1) location: TP-7, 3-in to 1 ft.
- Dibenzo(a,h)anthracene exceeded its CSCO at three (3) locations: TP-1, 3-in to 1.5 ft; TP-3, 3-in to 1 ft; and TP-7, 3-in to 1 ft.
- Indeno(1,2,3-cd)pyrene exceeded its RRSCO at three (3) locations: TP-1, 3-in to 1.5 ft; TP-3, 3-in to 1 ft; and TP-7, 3-in to 1 ft.

Metal Analytes

Metal analytes were detected above MDLs in the eight (8) samples analyzed for metals RCRA 8 list. Metal analytes were detected above their respective Part 375 RRSCOs or CSCOs at three (3) investigation locations, TP-4, TP-5, and TP-8. These sample locations are shown on Figure 2.

- Chromium exceeded is RRSCO at two (2) locations: TP-4, 3-in to 1 ft and TP-8, 3-in to 1 ft.
- Lead exceeded it CSCO at one (1) location: TP-5, 3-in to 1 ft.

3.4 Groundwater Analytical Results

One (1) groundwater sample was collected was collected from MW-1 on April 23, 2021 and analyzed for TCL VOCs. The sample results were compared to the NYSDEC Class GA Groundwater Quality Standards and Guidance Values (GWQS/GVs) per NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1), June 1998, amended April 2000. A copy of the laboratory analytical data report is included in Appendix A.

Volatile Organic Compounds

One VOC, trichloroethene (TCE), was detected in the groundwater sample collected from MW-1. The detected concentration of TCE was 0.36 micrograms per liter (ug/l) which is below its GWQS/GVs of 5 ug/l. The detected concentration was "J" flagged indicating it is an estimated concentration as the concentration is below the analytical report limit for TCE. No other VOCs were detected in the groundwater sample from MW-1 above method detection limits.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Limited Phase II investigation, Benchmark offers the following conclusions and recommendations:

- The Site is currently used as an athletic field in an area that is mixed commercial, industrial, and residential in the City of Buffalo.
- Fill materials consisting of black fines, brick, concrete debris, slag, cinders, wood, glass, and coal across that Site. Bedrock was present underlying the fill material at depths of 1 to 2 fbgs. Bedrock underlying the Site is the Onondaga limestone.
- PAHs were detected in three (3) of the four (4) samples analyzed for SVOCs at concentrations above their respective RRSCOs, CSCOS and/or ISCOs.
- Metals were detected in three (3) of the eight (8) at concentrations exceeding respective RRSCOs and CSCOs.
- TCE was the only VOC detected in the groundwater sample collected from bedrock well, MW-1, above method detection limits. The detected concentration was 0.36 ug/l which is below its respective GWQS/GVs of 5 ug/l.

We understand that you are considering redeveloping the Site for a senior housing project. Based on the findings detailed above, the Site is a potential candidate for the New York Brownfield Cleanup Program (BCP). The geotechnical investigation has recommended that fill material present across the Site be removed to the top of bedrock prior to constructing the proposed multi-story building. The soil/fill present at the Site is impacted which will complicate the redevelopment/reuse of the Site. Proper handling and management of the fill material will be required, in addition to landfill disposal, during redevelopment/reuse of the Site, as proposed.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of People Inc. The contents of this report are limited to information available at the time of the Limited Phase II Environmental Investigation activities and to data referenced herein and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of People, Inc. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS
PHASE II ENVIRONMENTAL INVESTIGATION REPORT
SOUTHERN PORTION OF 703 EAST DELAVAN
BUFFALO, NEW YORK

Location	Fill Present	Water Present	Depth of Test Pit (fbgs)	Thickness of Fill (ft)	Length of Test Pits (ft)	Test Pit Width (ft)	PID Measurements	Sample Depth (ft)	Depth (fbgs) and Soil Description
TP-1	Yes	No	1.5	1.5	24	1.5	0		**0 - 3"- Topsoil**
							0	3"-1.5'	**3" - 1.5'- Fill**- Brown/black, moist, mostly silty sand, few fill (brick, cinders, glass, trace slag), some well sorted gravel, loose when disturbed.
TP-2	Yes	No	1.3	1.3	20	1.5	0		**0 - 3"- Topsoil**
							0	3"-1'	**3"- 1.3'- Fill-** Black, moist, mostly silty sand, some fill (subangular gravel, brick, glass, concrete, slag, limestone), loose when disturbed
TP-3	Yes	No	2	2.0	30	1.5	0		**0 - 3"- Topsoil**
							0	3"-1'	**3"- 2'- Fill-** Black/silver, moist, mostly fill (graphite, slag, coal, brick, cinders), some silty sand, some subangular gravel,loose when disturbed
TP-4	Yes	No	2	2	40	1.5	0		**0 - 3"- Topsoil**
							0		**3"- 2'- Fill-** Black, moist, mostly silty sand, some subangular gravel, few fill (wood, brick, glass, cinders), loose when disurbed, no odors
TP-5	Yes	No	1.75	1.75	30	1.5	0		**0 - 3"- Topsoil**
							0		**3"- 1.75'- Fill-** Black, moist, mostly silty sand, some well sorted gravel, few brick, glass, subangular gravel, loose when disturbed
TP-6	No	No	1.8	n/a	20	1.5	0		**0 - 3"- Topsoil**
							0		**3" - 1.8'- Silty Sand-** Dark brown, moist, mostly silty sand, some well sorted gravel, medium dense
TP-7	Yes	No	1	0.5	25	1.5	0		**0-3"- Topsoil**
							0	3"-1'	**3" - 6"- Fill-** Black, moist, mostly fill (brick, cinders, coal, slag, concrete), loose when disturbed
							0		**6"- 1'- Fine sand and gravel**- Tan, moist, mostly fine sand, some limestone, medium dense
TP-8	Yes	No	2	1	30	1.5	0		**0 - 4"- Topsoil**
							0		**4" - 1'- Fill-** Brown/black, moist, mostly silty sand, few fill (brick, cinders, glass, trace slag), some well sorted gravel, loose when disturbed.
							0		**1 - 2' Subangular gravel with sand-** Brown, moist, mostly subangular gravel, some fine sand, loose when disturbed

Definitions:
ft = feet
fbgs = feet below ground surface

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TABLE 2

SUMMARY OF SAMPLING AND ANALYSIS PROGRAM
LIMITED PHASE II ENVIRONMENTAL INVESTGATION REPORT
SOUTHERN PORTION OF 703 EAST DELAVAN AVENUE SITE

Sample Location	Sample Depth (fbgs)	Soil Type	TCL list SVOCs base-neutrals only	RCRA 8 Metals	PCBs	Notes
Subsurface Soil/Fill Samples						
TP-1	0.25 to 1.5	Fill	X	X	X	
TP-2	0.25 to 1	Fill	X	X	X	
TP-3	0.25 to 1	Fill	X	X	X	
TP-4	0.25 to 1	Fill		X		
TP-5	0.25 to 1	Fill		X		
TP-6	0.25 to 2	Fill		X		
TP-7	0.25 to 1	Fill	X	X	X	
TP-8	0.25 to 1	Fill		X		

Notes:
fbgs - feet below ground surface.
TCL VOC - Total Compound List, Volatile Organic Compounds
TCL SVOCs - Target Compound List, Semivolatile Organic Compounds.
CP-51 - Commissioner's Policy 51 List.
RCRA - Resource Conservation & Recovery Act.

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TABLE 3
SUMMARY OF SOIL/FILL SAMPLE ANALYTICAL RESULTS
PHASE II ENVIRONMENTAL INVESTIGATION
SOUTHERN PORTION OF 703 EAST DELAVAN AVENUE
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use SCOs[2]	Restricted Residential Use SCOs[3]	Commercial Use SCOs[3]	Industrial Use SCOs[3]	TP-1 0.25'-1.5'	TP-2 0.25'-1'	TP-3 0.25'-1'	TP-4 0.25'-1'	TP-5 0.25'-1'	TP-6 0.25'-2'	TP-7 0.25'-1'	TP-8 0.25'-1'
					2/24/2021							
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg[4]												
Acenaphthene	**20**	**100**	**500**	**1000**	0.35 J	0.11 J	1.2	--	--	--	1.3	--
Acenaphthylene	**100**	**100**	**500**	**1000**	ND	ND	ND	--	--	--	0.12 J	--
Anthracene	**100**	**100**	**500**	**1000**	0.75 J	0.19 J	1.8	--	--	--	2.7	--
Benzo(a)anthracene	**1**	**1**	**5.6**	**11**	**1.9**	0.59	**3.7**	--	--	--	**5.5**	--
Benzo(a)pyrene	**1**	**1**	**1**	**1.1**	**2.2**	0.65	**3.6**	--	--	--	**5.5**	--
Benzo(b)fluoranthene	**1**	**1**	**5.6**	**11**	**3.1**	0.76	**4.4**	--	--	--	**5.7**	--
Benzo(ghi)perylene	**100**	**100**	**500**	**1000**	4.1	0.51	2.1	--	--	--	3.4	--
Benzo(k)fluoranthene	**0.8**	**3.9**	**56**	**110**	**1.2**	0.38	**1.6**	--	--	--	**3.5**	--
Chrysene	**1**	**3.9**	**56**	**110**	**2.3**	0.63	**3.6**	--	--	--	**5.6**	--
Dibenzo (a,h)anthracene	**0.33**	**0.33**	**0.56**	**1.1**	**0.65 J**	0.13 J	**0.64 J**	--	--	--	**1**	--
Fluoranthene	**100**	**100**	**500**	**1000**	4.3	1.2	9.1	--	--	--	12	--
Fluorene	**30**	**100**	**500**	**1000**	0.43 J	0.12 J	1.3	--	--	--	1.4	--
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**5.6**	**11**	**2.2**	0.4	**1.9**	--	--	--	**3**	--
Naphthalene	**12**	**100**	**500**	**1000**	ND	0.03 J	0.89 J	--	--	--	0.43 J	--
Phenanthrene	**100**	**100**	**500**	**1000**	3.2	0.95	7.9	--	--	--	11	--
Pyrene	**100**	**100**	**500**	**1000**	3.6	1.1	9.6	--	--	--	11	--
Total Metals - mg/Kg												
Arsenic	**13**	**16**	**16**	**16**	7.6	**14.9**	5	12.9	**14.8**	10.2	9.3	**14.1**
Barium	**350**	**400**	**400**	**10000**	106	94.6	74.4	138 F1	101	135	87.9	249
Cadmium	**2.5**	**4.3**	**9.3**	**60**	0.62	ND	0.26	1	0.45	0.45	0.72	1.4
Chromium	**30**	**180**	**1500**	**6800**	**30.6 F1**	**58**	13.2	**224 F2**	**44**	**33.8**	**93.6**	**196**
Lead	**63**	**400**	**1000**	**3900**	**105 F1**	**216**	61.3	**273**	**2570**	**152**	**132**	**337**
Mercury	**0.18**	**0.81**	**2.8**	**5.7**	**0.19**	0.15	0.061	0.15	**0.34**	**0.21**	**0.18**	**0.26**
Selenium	**30**	**180**	**1500**	**6800**	ND	1.8	1.1 J	4.5 J	6.3 J	3.1 J	0.79 J	4.2 J
Silver	**2**	**180**	**1500**	**6800**	0.37 J	0.81	ND	0.54 J	0.7 J	0.36 J	0.41 J	0.61J
Polychlorinated Biphenyls - mg/Kg												
	--	--	--	--	ND	ND	ND	--	--	--	ND	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Unrestricted Soil Cleanup Objectives (SCOs), Table 375-6(a).
3. Values per 6NYCRR Part 375 Restricted Use Soil Cleanup Objectives (SCOs), Commercial SCOs (CSCOs), and Industrial SCOs (ISCOs), Table 375-6.8(b).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

Definitions:

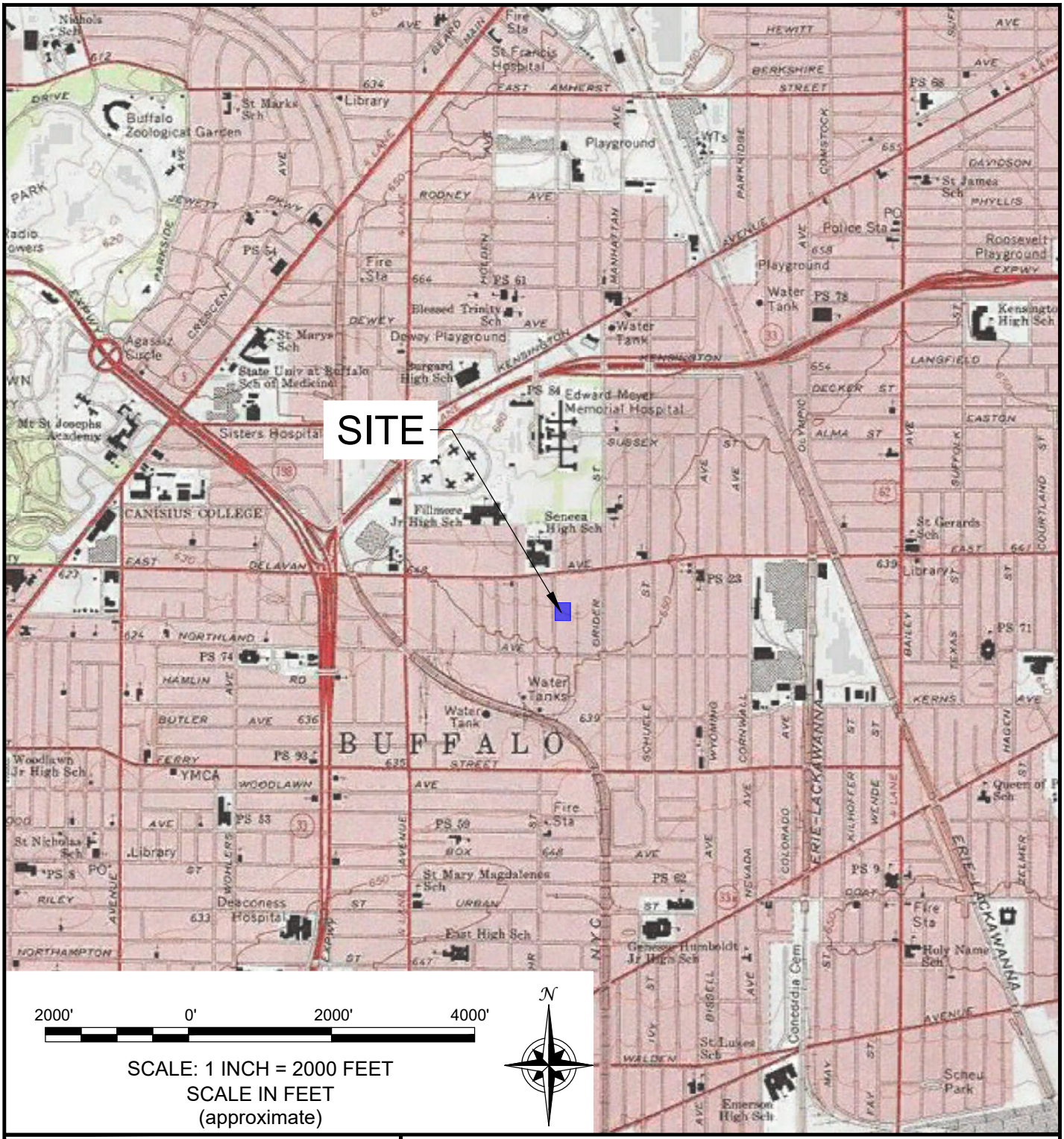
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter, or the parameter was not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
F1 = MS and/or MSD recovery exceeds control limits.

BOLD	= Exceeds Unrestricted SCOs
BOLD	= Exceeds Restricted Residential SCOs
BOLD	= Exceeds Commercial SCOs
BOLD	= Exceeds Industrial SCOs

FIGURES

F:\CAD\Benchmark\People Inc\703 East Delevan\Phase II\Figure 1 - Site Location and Vicinity Map.dwg, 3/16/2021 4:09:13 PM

FIGURE 1



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PROJECT NO.: B0408-021-001

DATE: MARCH 2021

DRAFTED BY: CEH

SITE LOCATION AND VICINITY MAP

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

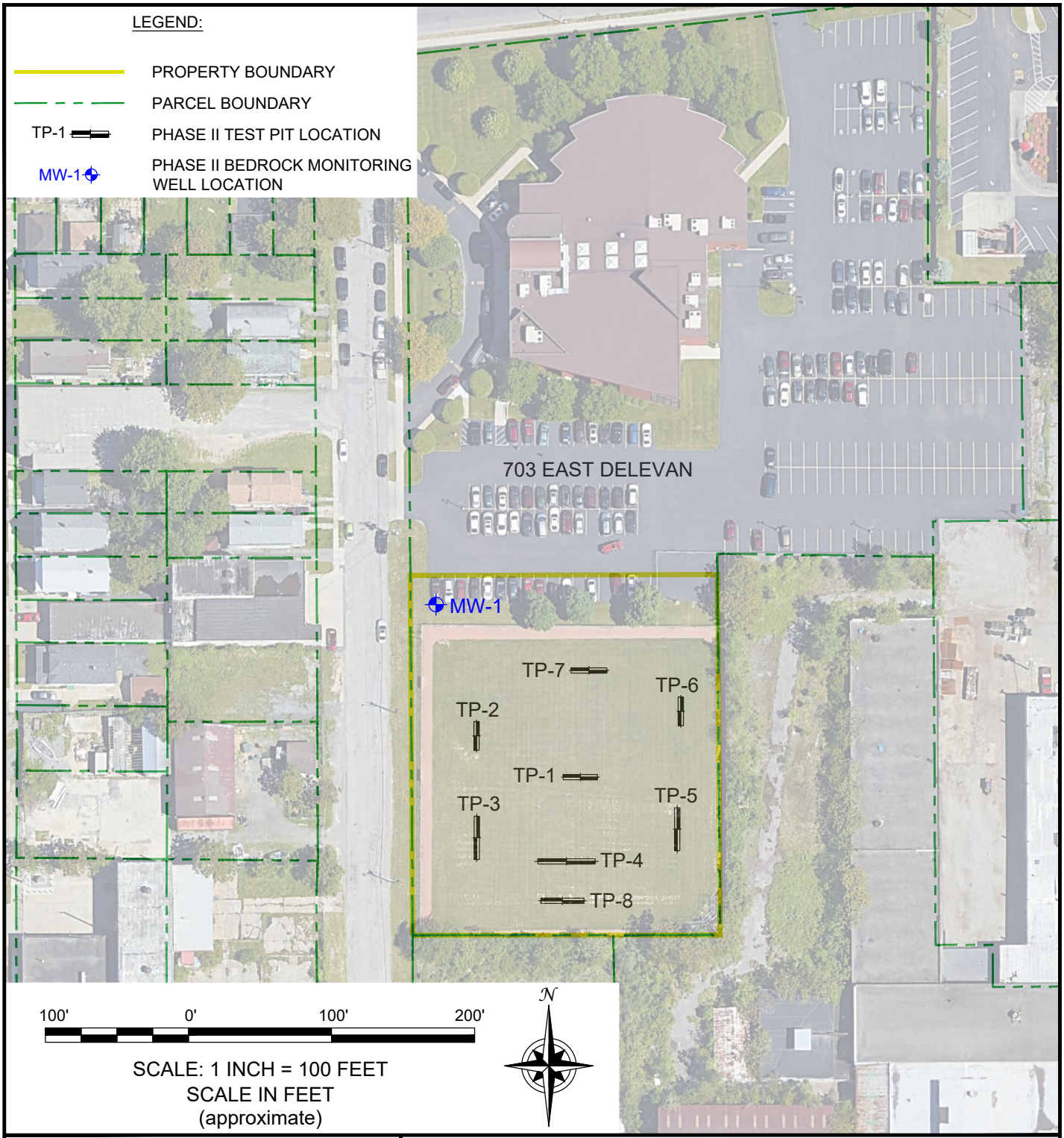
SOUTHERN PORTION OF 703 EAST DELAVAN AVENUE

BUFFALO, NEW YORK

PREPARED FOR

PEOPLE INC.

FIGURE 2



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PROJECT NO.: B0408-021-001

DATE: APRIL 2021

DRAFTED BY: CNK

SITE PLAN (AERIAL) WITH INVESTIGATION LOCATIONS

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

SOUTHERN PORTION OF 703 EAST DELAVAN AVENUE

BUFFALO, NEW YORK

PREPARED FOR

PEOPLE INC.

APPENDIX A

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181404-1
Client Project/Site: Benchmark - 703 E. Delavan site

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron

Authorized for release by:
3/3/2021 2:10:22 PM
Rebecca Jones, Project Management Assistant I
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Designee for

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Table of Contents

Qualifiers

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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
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

Case Narrative

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Job ID: 480-181404-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181404-1

Comments
No additional comments.

Receipt
The samples were received on 2/24/2021 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: TP-3 3in-1tt (480-181404-4). Sample point TP-3 3"-1ft not recieved by lab. Sample was not logged.

Missing sample point remitted and received by lab on 2/26: TP-3 3in-1tt (480-181404-4).

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-570909 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: TP-1 3in-1.5ft (480-181404-1), TP-7 3in-1ft (480-181404-3) and TP-3 3in-1tt (480-181404-4). Elevated reporting limits (RL) are provided.

Method 8270D: The surrogate recovery for the blank associated with preparation batch 480-570721 and analytical batch 480-570909 was outside the upper control limits.

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

GC Semi VOA
Method 8082A: The following samples are associated with a laboratory control standard (LCS 480-570757/2) that had recoveries for the surrogate Decachlorobiphenyl that were above acceptance limits: TP-1 3in-1.5ft (480-181404-1), TP-2 3in-1ft (480-181404-2), TP-7 3in-1ft (480-181404-3) and TP-3 3in-1tt (480-181404-4). The secondary surrogate Tetrachloro-m-xylene is within limits. Therefore, the data has been reported.

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

Metals
Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Silver, Cadmium, Chromium, and Lead: TP-2 3in-1ft (480-181404-2). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-1 3in-1.5ft — Lab Sample ID: 480-181404-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	350	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Anthracene	750	J	1000	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1900		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2200		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3100		1000	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4100		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1200		1000	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2300		1000	230	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	650	J	1000	180	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	4300		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	430	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2200		1000	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	3600		1000	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	3200		1000	150	ug/Kg	5	☼	8270D	Total/NA
Arsenic	7.6		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	106		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.62		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	30.6	F1	0.64	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	105	F1	1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Silver	0.37	J	0.76	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.19		0.023	0.0093	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-2 3in-1ft — Lab Sample ID: 480-181404-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	110	J	210	31	ug/Kg	1	☼	8270D	Total/NA
Anthracene	190	J	210	52	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	590		210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	650		210	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	760		210	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	510		210	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	380		210	27	ug/Kg	1	☼	8270D	Total/NA
Chrysene	630		210	47	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	210	37	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1200		210	22	ug/Kg	1	☼	8270D	Total/NA
Fluorene	120	J	210	25	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	400		210	26	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	30	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100		210	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	950		210	31	ug/Kg	1	☼	8270D	Total/NA
Arsenic	14.9		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	94.6		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Chromium	58.0		1.2	0.48	mg/Kg	2	☼	6010C	Total/NA
Lead	216		2.4	0.57	mg/Kg	2	☼	6010C	Total/NA
Selenium	1.8	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Silver	0.81	J	1.4	0.48	mg/Kg	2	☼	6010C	Total/NA
Mercury	0.15		0.022	0.0090	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-7 3in-1ft — Lab Sample ID: 480-181404-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1300		950	140	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-7 3in-1ft (Continued)

Lab Sample ID: 480-181404-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	120	J	950	120	ug/Kg	5	☼	8270D	Total/NA
Anthracene	2700		950	240	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	5500		950	95	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	5500		950	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	5700		950	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3400		950	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	3500		950	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	5600		950	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1000		950	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	12000		950	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene	1400		950	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3000		950	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	430	J	950	120	ug/Kg	5	☼	8270D	Total/NA
Pyrene	11000		950	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	11000		950	140	ug/Kg	5	☼	8270D	Total/NA
Arsenic	9.3		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	87.9		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.72		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	93.6		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	132		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.79	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Silver	0.41	J	0.68	0.23	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.18		0.020	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-3 3in-1tt

Lab Sample ID: 480-181404-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1200		1100	160	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1800		1100	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3700		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	3600		1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	4400		1100	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2100		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1600		1100	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	3600		1100	240	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	640	J	1100	190	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	9100		1100	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	1300		1100	130	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1900		1100	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	890	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	7900		1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	9600		1100	160	ug/Kg	5	☼	8270D	Total/NA
Arsenic	5.0	F1	2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	74.4	F1 F2	0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.26	F1 F2	0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.2		0.65	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	61.3		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.1	J F1 F2	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.061		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-1 3in-1.5ft
Lab Sample ID: 480-181404-1
Date Collected: 02/24/21 09:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	350	J	1000	150	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Anthracene	750	J	1000	260	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Benzo[a]anthracene	1900		1000	100	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Benzo[a]pyrene	2200		1000	150	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Benzo[b]fluoranthene	3100		1000	170	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Benzo[g,h,i]perylene	4100		1000	110	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Benzo[k]fluoranthene	1200		1000	130	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Chrysene	2300		1000	230	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Dibenz(a,h)anthracene	650	J	1000	180	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Fluoranthene	4300		1000	110	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Fluorene	430	J	1000	120	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Indeno[1,2,3-cd]pyrene	2200		1000	130	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Naphthalene	ND		1000	130	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Pyrene	3600		1000	120	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5
Phenanthrene	3200		1000	150	ug/Kg	☼	02/26/21 10:27	03/01/21 15:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*54 - 120*	*02/26/21 10:27*	*03/01/21 15:30*	*5*
2-Fluorobiphenyl	*103*		*60 - 120*	*02/26/21 10:27*	*03/01/21 15:30*	*5*
2-Fluorophenol (Surr)	*83*		*52 - 120*	*02/26/21 10:27*	*03/01/21 15:30*	*5*
Phenol-d5 (Surr)	*86*		*54 - 120*	*02/26/21 10:27*	*03/01/21 15:30*	*5*
p-Terphenyl-d14 (Surr)	*109*		*79 - 130*	*02/26/21 10:27*	*03/01/21 15:30*	*5*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*	*02/26/21 10:27*	*03/01/21 15:30*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	02/26/21 15:09	02/28/21 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*60 - 154*	*02/26/21 15:09*	*02/28/21 19:23*	*1*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*02/26/21 15:09*	*02/28/21 19:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		2.5	0.51	mg/Kg	☼	02/26/21 13:25	03/01/21 18:32	1
Barium	106		0.64	0.14	mg/Kg	☼	02/26/21 13:25	03/01/21 18:32	1
Cadmium	0.62		0.25	0.038	mg/Kg	☼	02/26/21 13:25	03/01/21 18:32	1
Chromium	30.6	F1	0.64	0.25	mg/Kg	☼	02/26/21 13:25	03/01/21 18:32	1
Lead	105	F1	1.3	0.31	mg/Kg	☼	02/26/21 13:25	03/01/21 18:32	1
Selenium	ND		5.1	0.51	mg/Kg	☼	02/26/21 13:25	03/01/21 18:32	1
Silver	0.37	J	0.76	0.25	mg/Kg	☼	02/26/21 13:25	03/02/21 14:50	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-1 3in-1.5ft
Date Collected: 02/24/21 09:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181404-1
Matrix: Solid
Percent Solids: 81.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.023	0.0093	mg/Kg	☼	02/25/21 16:48	02/25/21 18:19	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-2 3in-1ft
Date Collected: 02/24/21 10:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181404-2
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	210	31	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Acenaphthylene	ND		210	27	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Anthracene	190	J	210	52	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Benzo[a]anthracene	590		210	21	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Benzo[a]pyrene	650		210	31	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Benzo[b]fluoranthene	760		210	33	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Benzo[g,h,i]perylene	510		210	22	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Benzo[k]fluoranthene	380		210	27	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Chrysene	630		210	47	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Dibenz(a,h)anthracene	130	J	210	37	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Fluoranthene	1200		210	22	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Fluorene	120	J	210	25	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Indeno[1,2,3-cd]pyrene	400		210	26	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Naphthalene	30	J	210	27	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Pyrene	1100		210	25	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1
Phenanthrene	950		210	31	ug/Kg	☼	02/26/21 10:27	03/01/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*54 - 120*	*02/26/21 10:27*	*03/01/21 15:55*	*1*
2-Fluorobiphenyl	*95*		*60 - 120*	*02/26/21 10:27*	*03/01/21 15:55*	*1*
2-Fluorophenol (Surr)	*85*		*52 - 120*	*02/26/21 10:27*	*03/01/21 15:55*	*1*
Phenol-d5 (Surr)	*86*		*54 - 120*	*02/26/21 10:27*	*03/01/21 15:55*	*1*
p-Terphenyl-d14 (Surr)	*108*		*79 - 130*	*02/26/21 10:27*	*03/01/21 15:55*	*1*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*02/26/21 10:27*	*03/01/21 15:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.050	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1
PCB-1221	ND		0.25	0.050	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1
PCB-1232	ND		0.25	0.050	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1
PCB-1242	ND		0.25	0.050	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1
PCB-1248	ND		0.25	0.050	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	02/26/21 15:09	02/28/21 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*106*		*60 - 154*	*02/26/21 15:09*	*02/28/21 19:39*	*1*
DCB Decachlorobiphenyl	*124*		*65 - 174*	*02/26/21 15:09*	*02/28/21 19:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.9		2.4	0.48	mg/Kg	☼	02/26/21 13:25	03/01/21 19:02	1
Barium	94.6		0.60	0.13	mg/Kg	☼	02/26/21 13:25	03/01/21 19:02	1
Cadmium	ND		0.48	0.072	mg/Kg	☼	02/26/21 13:25	03/02/21 15:13	2
Chromium	58.0		1.2	0.48	mg/Kg	☼	02/26/21 13:25	03/02/21 15:13	2
Lead	216		2.4	0.57	mg/Kg	☼	02/26/21 13:25	03/02/21 15:13	2
Selenium	1.8	J	4.8	0.48	mg/Kg	☼	02/26/21 13:25	03/01/21 19:02	1
Silver	0.81	J	1.4	0.48	mg/Kg	☼	02/26/21 13:25	03/02/21 15:13	2

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-2 3in-1ft
Date Collected: 02/24/21 10:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181404-2
Matrix: Solid
Percent Solids: 81.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.022	0.0090	mg/Kg	☼	02/25/21 16:48	02/25/21 18:25	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-7 3in-1ft
Date Collected: 02/24/21 13:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181404-3
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300		950	140	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Acenaphthylene	120	J	950	120	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Anthracene	2700		950	240	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Benzo[a]anthracene	5500		950	95	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Benzo[a]pyrene	5500		950	140	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Benzo[b]fluoranthene	5700		950	150	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Benzo[g,h,i]perylene	3400		950	100	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Benzo[k]fluoranthene	3500		950	120	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Chrysene	5600		950	210	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Dibenz(a,h)anthracene	1000		950	170	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Fluoranthene	12000		950	100	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Fluorene	1400		950	110	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Indeno[1,2,3-cd]pyrene	3000		950	120	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Naphthalene	430	J	950	120	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Pyrene	11000		950	110	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5
Phenanthrene	11000		950	140	ug/Kg	☼	02/26/21 10:27	03/01/21 16:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*54 - 120*	*02/26/21 10:27*	*03/01/21 16:19*	*5*
2-Fluorobiphenyl	*109*		*60 - 120*	*02/26/21 10:27*	*03/01/21 16:19*	*5*
2-Fluorophenol (Surr)	*91*		*52 - 120*	*02/26/21 10:27*	*03/01/21 16:19*	*5*
Phenol-d5 (Surr)	*92*		*54 - 120*	*02/26/21 10:27*	*03/01/21 16:19*	*5*
p-Terphenyl-d14 (Surr)	*111*		*79 - 130*	*02/26/21 10:27*	*03/01/21 16:19*	*5*
Nitrobenzene-d5 (Surr)	*90*		*53 - 120*	*02/26/21 10:27*	*03/01/21 16:19*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1
PCB-1221	ND		0.25	0.048	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1
PCB-1232	ND		0.25	0.048	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1
PCB-1242	ND		0.25	0.048	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1
PCB-1248	ND		0.25	0.048	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	02/26/21 15:09	02/28/21 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*02/26/21 15:09*	*02/28/21 19:55*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*02/26/21 15:09*	*02/28/21 19:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.3		2.3	0.46	mg/Kg	☼	02/26/21 13:25	03/01/21 19:06	1
Barium	87.9		0.57	0.13	mg/Kg	☼	02/26/21 13:25	03/01/21 19:06	1
Cadmium	0.72		0.23	0.034	mg/Kg	☼	02/26/21 13:25	03/01/21 19:06	1
Chromium	93.6		0.57	0.23	mg/Kg	☼	02/26/21 13:25	03/01/21 19:06	1
Lead	132		1.1	0.27	mg/Kg	☼	02/26/21 13:25	03/01/21 19:06	1
Selenium	0.79	J	4.6	0.46	mg/Kg	☼	02/26/21 13:25	03/01/21 19:06	1
Silver	0.41	J	0.68	0.23	mg/Kg	☼	02/26/21 13:25	03/02/21 15:17	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181404-1
Project/Site: Benchmark - 703 E. Delavan site

Client Sample ID: TP-7 3in-1ft
Lab Sample ID: 480-181404-3
Date Collected: 02/24/21 13:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 89.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.020	0.0080	mg/Kg	☼	02/25/21 16:48	02/25/21 18:26	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-3 3in-1tt
Date Collected: 02/24/21 11:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181404-4
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1200		1100	160	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Anthracene	1800		1100	260	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Benzo[a]anthracene	3700		1100	110	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Benzo[a]pyrene	3600		1100	160	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Benzo[b]fluoranthene	4400		1100	170	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Benzo[g,h,i]perylene	2100		1100	110	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Benzo[k]fluoranthene	1600		1100	140	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Chrysene	3600		1100	240	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Dibenz(a,h)anthracene	640	J	1100	190	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Fluoranthene	9100		1100	110	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Fluorene	1300		1100	130	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Indeno[1,2,3-cd]pyrene	1900		1100	130	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Naphthalene	890	J	1100	140	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Pyrene	7900		1100	130	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5
Phenanthrene	9600		1100	160	ug/Kg	☼	02/26/21 15:06	03/01/21 17:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*54 - 120*	*02/26/21 15:06*	*03/01/21 17:07*	*5*
2-Fluorobiphenyl	*92*		*60 - 120*	*02/26/21 15:06*	*03/01/21 17:07*	*5*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*02/26/21 15:06*	*03/01/21 17:07*	*5*
Phenol-d5 (Surr)	*84*		*54 - 120*	*02/26/21 15:06*	*03/01/21 17:07*	*5*
p-Terphenyl-d14 (Surr)	*105*		*79 - 130*	*02/26/21 15:06*	*03/01/21 17:07*	*5*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*02/26/21 15:06*	*03/01/21 17:07*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.058	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1
PCB-1221	ND		0.29	0.058	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1
PCB-1232	ND		0.29	0.058	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1
PCB-1242	ND		0.29	0.058	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1
PCB-1248	ND		0.29	0.058	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	02/26/21 15:09	02/28/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*60 - 154*	*02/26/21 15:09*	*02/28/21 20:59*	*1*
DCB Decachlorobiphenyl	*80*		*65 - 174*	*02/26/21 15:09*	*02/28/21 20:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	F1	2.6	0.52	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1
Barium	74.4	F1 F2	0.65	0.14	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1
Cadmium	0.26	F1 F2	0.26	0.039	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1
Chromium	13.2		0.65	0.26	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1
Lead	61.3		1.3	0.31	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1
Selenium	1.1	J F1 F2	5.2	0.52	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1
Silver	ND	F1	0.78	0.26	mg/Kg	☼	03/02/21 12:40	03/02/21 18:35	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Client Sample ID: TP-3 3in-1tt
Date Collected: 02/24/21 11:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181404-4
Matrix: Solid
Percent Solids: 79.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.025	0.010	mg/Kg	☼	03/02/21 13:23	03/02/21 15:24	1

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	PHL	TPHd14	NBZ
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(79-130)	(53-120)
480-181404-1	TP-1 3in-1.5ft	62	103	83	86	109	82
480-181404-2	TP-2 3in-1ft	77	95	85	86	108	81
480-181404-3	TP-7 3in-1ft	78	109	91	92	111	90
480-181404-4	TP-3 3in-1tt	66	92	78	84	105	84
LCS 480-570721/2-A	Lab Control Sample	79	97	87	88	111	85
MB 480-570721/1-A	Method Blank	52 S1-	83	73	74	97	74

Surrogate Legend

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

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TCX1	DCBP1				
Lab Sample ID	Client Sample ID	(60-154)	(65-174)				
480-181404-1	TP-1 3in-1.5ft	104	127				
480-181404-1 MS	TP-1 3in-1.5ft	111	131				
480-181404-1 MSD	TP-1 3in-1.5ft	122	157				
480-181404-2	TP-2 3in-1ft	106	124				
480-181404-3	TP-7 3in-1ft	97	115				
480-181404-4	TP-3 3in-1tt	79	80				
LCS 480-570757/2-A	Lab Control Sample	142	175 S1+				
MB 480-570757/1-A	Method Blank	117	139				

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 480-570721/1-A
Matrix: Solid
Analysis Batch: 570909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Acenaphthylene	ND		170	22	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Anthracene	ND		170	42	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Benzo[a]anthracene	ND		170	17	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Benzo[a]pyrene	ND		170	25	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Chrysene	ND		170	38	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Fluoranthene	ND		170	18	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Fluorene	ND		170	20	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Naphthalene	ND		170	22	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Pyrene	ND		170	20	ug/Kg		02/26/21 10:24	03/01/21 13:29	1
Phenanthrene	ND		170	25	ug/Kg		02/26/21 10:24	03/01/21 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*	*S1-*	*54 - 120*	*02/26/21 10:24*	*03/01/21 13:29*	*1*
2-Fluorobiphenyl	*83*		*60 - 120*	*02/26/21 10:24*	*03/01/21 13:29*	*1*
2-Fluorophenol (Surr)	*73*		*52 - 120*	*02/26/21 10:24*	*03/01/21 13:29*	*1*
Phenol-d5 (Surr)	*74*		*54 - 120*	*02/26/21 10:24*	*03/01/21 13:29*	*1*
p-Terphenyl-d14 (Surr)	*97*		*79 - 130*	*02/26/21 10:24*	*03/01/21 13:29*	*1*
Nitrobenzene-d5 (Surr)	*74*		*53 - 120*	*02/26/21 10:24*	*03/01/21 13:29*	*1*

Lab Sample ID: LCS 480-570721/2-A
Matrix: Solid
Analysis Batch: 570909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1620	1320		ug/Kg		82	62 - 120
Acenaphthylene	1620	1330		ug/Kg		82	58 - 121
Anthracene	1620	1420		ug/Kg		88	62 - 120
Benzo[a]anthracene	1620	1400		ug/Kg		86	65 - 120
Benzo[a]pyrene	1620	1470		ug/Kg		90	64 - 120
Benzo[b]fluoranthene	1620	1450		ug/Kg		89	64 - 120
Benzo[g,h,i]perylene	1620	1420		ug/Kg		87	45 - 145
Benzo[k]fluoranthene	1620	1490		ug/Kg		92	65 - 120
Chrysene	1620	1500		ug/Kg		93	64 - 120
Dibenz(a,h)anthracene	1620	1450		ug/Kg		90	54 - 132
Fluoranthene	1620	1490		ug/Kg		92	62 - 120
Fluorene	1620	1370		ug/Kg		85	63 - 120
Indeno[1,2,3-cd]pyrene	1620	1450		ug/Kg		89	56 - 134
Naphthalene	1620	1210		ug/Kg		75	55 - 120
Pyrene	1620	1550		ug/Kg		95	61 - 133
Phenanthrene	1620	1390		ug/Kg		85	60 - 120

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

Lab Sample ID: LCS 480-570721/2-A
Matrix: Solid
Analysis Batch: 570909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570721

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	79		54 - 120
2-Fluorobiphenyl	97		60 - 120
2-Fluorophenol (Surr)	87		52 - 120
Phenol-d5 (Surr)	88		54 - 120
p-Terphenyl-d14 (Surr)	111		79 - 130
Nitrobenzene-d5 (Surr)	85		53 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-570757/1-A
Matrix: Solid
Analysis Batch: 570820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		02/26/21 15:09	02/28/21 18:20	1
PCB-1221	ND		0.24	0.047	mg/Kg		02/26/21 15:09	02/28/21 18:20	1
PCB-1232	ND		0.24	0.047	mg/Kg		02/26/21 15:09	02/28/21 18:20	1
PCB-1242	ND		0.24	0.047	mg/Kg		02/26/21 15:09	02/28/21 18:20	1
PCB-1248	ND		0.24	0.047	mg/Kg		02/26/21 15:09	02/28/21 18:20	1
PCB-1254	ND		0.24	0.11	mg/Kg		02/26/21 15:09	02/28/21 18:20	1
PCB-1260	ND		0.24	0.11	mg/Kg		02/26/21 15:09	02/28/21 18:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	02/26/21 15:09	02/28/21 18:20	1
DCB Decachlorobiphenyl	139		65 - 174	02/26/21 15:09	02/28/21 18:20	1

Lab Sample ID: LCS 480-570757/2-A
Matrix: Solid
Analysis Batch: 570820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.37	3.51		mg/Kg		148	51 - 185		
PCB-1260			2.37	3.86		mg/Kg		163	61 - 184		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	142		60 - 154
DCB Decachlorobiphenyl	175	S1+	65 - 174

Lab Sample ID: 480-181404-1 MS
Matrix: Solid
Analysis Batch: 570820

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.46	3.10		mg/Kg	☼	126	50 - 177		
PCB-1260	ND		2.46	3.24		mg/Kg	☼	132	33 - 200		

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	111		60 - 154

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-181404-1 MS
Matrix: Solid
Analysis Batch: 570820

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570757

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	*131*		*65 - 174*

Lab Sample ID: 480-181404-1 MSD
Matrix: Solid
Analysis Batch: 570820

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.75	3.61		mg/Kg	☼	131	50 - 177	15	50
PCB-1260	ND		2.75	3.76		mg/Kg	☼	136	33 - 200	15	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*122*		*60 - 154*
DCB Decachlorobiphenyl	*157*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-570723/1-A
Matrix: Solid
Analysis Batch: 570991

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.1	0.42	mg/Kg		02/26/21 13:25	03/01/21 18:25	1
Barium	ND		0.52	0.11	mg/Kg		02/26/21 13:25	03/01/21 18:25	1
Cadmium	ND		0.21	0.031	mg/Kg		02/26/21 13:25	03/01/21 18:25	1
Chromium	ND		0.52	0.21	mg/Kg		02/26/21 13:25	03/01/21 18:25	1
Lead	ND		1.0	0.25	mg/Kg		02/26/21 13:25	03/01/21 18:25	1
Selenium	ND		4.2	0.42	mg/Kg		02/26/21 13:25	03/01/21 18:25	1

Lab Sample ID: MB 480-570723/1-A
Matrix: Solid
Analysis Batch: 571082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.63	0.21	mg/Kg		02/26/21 13:25	03/02/21 14:32	1

Lab Sample ID: LCSSRM 480-570723/2-A
Matrix: Solid
Analysis Batch: 570991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	162	131.3		mg/Kg		81.1	70.4 - 130.2
Barium	138	110.6		mg/Kg		80.1	74.6 - 124.6
Cadmium	135	110.5		mg/Kg		81.9	74.8 - 124.4
Chromium	117	97.65		mg/Kg		83.5	70.1 - 129.9
Lead	77.6	73.97		mg/Kg		95.3	68.8 - 131.4

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

Lab Sample ID: LCSSRM 480-570723/2-A
Matrix: Solid
Analysis Batch: 570991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	172	144.6		mg/Kg		84.1	68.0 - 132.6

Lab Sample ID: LCSSRM 480-570723/2-A
Matrix: Solid
Analysis Batch: 571082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.7	19.73		mg/Kg		79.9	67.2 - 133.2

Lab Sample ID: 480-181404-1 MS
Matrix: Solid
Analysis Batch: 570991

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.6		50.4	58.43		mg/Kg	☼	101	75 - 125
Barium	106		50.4	154.6		mg/Kg	☼	97	75 - 125
Cadmium	0.62		50.4	44.94		mg/Kg	☼	88	75 - 125
Chromium	30.6	F1	50.4	84.36		mg/Kg	☼	107	75 - 125
Lead	105	F1	50.4	309.1	F1	mg/Kg	☼	406	75 - 125
Selenium	ND		50.4	47.37		mg/Kg	☼	94	75 - 125

Lab Sample ID: 480-181404-1 MS
Matrix: Solid
Analysis Batch: 571082

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.37	J	12.6	12.39		mg/Kg	☼	95	75 - 125

Lab Sample ID: 480-181404-1 MSD
Matrix: Solid
Analysis Batch: 570991

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.6		46.8	50.91		mg/Kg	☼	93	75 - 125	14	20
Barium	106		46.8	149.7		mg/Kg	☼	94	75 - 125	3	20
Cadmium	0.62		46.8	40.40		mg/Kg	☼	85	75 - 125	11	20
Chromium	30.6	F1	46.8	100.7	F1	mg/Kg	☼	150	75 - 125	18	20
Lead	105	F1	46.8	303.2	F1	mg/Kg	☼	424	75 - 125	2	20
Selenium	ND		46.8	42.28		mg/Kg	☼	90	75 - 125	11	20

Lab Sample ID: 480-181404-1 MSD
Matrix: Solid
Analysis Batch: 571082

Client Sample ID: TP-1 3in-1.5ft
Prep Type: Total/NA
Prep Batch: 570723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.37	J	11.7	11.24		mg/Kg	☼	93	75 - 125	10	20

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

Lab Sample ID: MB 480-571054/1-A
Matrix: Solid
Analysis Batch: 571149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.39	mg/Kg		03/02/21 12:40	03/02/21 18:28	1
Barium	ND		0.48	0.11	mg/Kg		03/02/21 12:40	03/02/21 18:28	1
Cadmium	ND		0.19	0.029	mg/Kg		03/02/21 12:40	03/02/21 18:28	1
Chromium	ND		0.48	0.19	mg/Kg		03/02/21 12:40	03/02/21 18:28	1
Lead	ND		0.97	0.23	mg/Kg		03/02/21 12:40	03/02/21 18:28	1
Selenium	ND		3.9	0.39	mg/Kg		03/02/21 12:40	03/02/21 18:28	1
Silver	ND		0.58	0.19	mg/Kg		03/02/21 12:40	03/02/21 18:28	1

Lab Sample ID: LCSSRM 480-571054/2-A
Matrix: Solid
Analysis Batch: 571149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571054

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	162	138.5		mg/Kg		85.5	70.4 - 130.2
Barium	138	124.3		mg/Kg		90.1	74.6 - 124.6
Cadmium	135	119.1		mg/Kg		88.2	74.8 - 124.4
Chromium	117	105.6		mg/Kg		90.3	70.1 - 129.9
Lead	77.6	71.70		mg/Kg		92.4	68.8 - 131.4
Selenium	172	155.7		mg/Kg		90.5	68.0 - 132.6
Silver	24.7	19.37		mg/Kg		78.4	67.2 - 133.2

Lab Sample ID: 480-181404-4 MS
Matrix: Solid
Analysis Batch: 571149

Client Sample ID: TP-3 3in-1tt
Prep Type: Total/NA
Prep Batch: 571054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.0	F1	51.7	43.45	F1	mg/Kg	☼	74	75 - 125
Barium	74.4	F1 F2	51.7	170.5	F1	mg/Kg	☼	186	75 - 125
Cadmium	0.26	F1 F2	51.7	37.29	F1	mg/Kg	☼	72	75 - 125
Chromium	13.2		51.7	57.64		mg/Kg	☼	86	75 - 125
Lead	61.3		51.7	115.9		mg/Kg	☼	106	75 - 125
Selenium	1.1	J F1 F2	51.7	39.06	F1	mg/Kg	☼	73	75 - 125
Silver	ND	F1	12.9	9.51	F1	mg/Kg	☼	74	75 - 125

Lab Sample ID: 480-181404-4 MSD
Matrix: Solid
Analysis Batch: 571149

Client Sample ID: TP-3 3in-1tt
Prep Type: Total/NA
Prep Batch: 571054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.0	F1	52.2	51.02		mg/Kg	☼	88	75 - 125	16	20
Barium	74.4	F1 F2	52.2	110.1	F1 F2	mg/Kg	☼	68	75 - 125	43	20
Cadmium	0.26	F1 F2	52.2	45.87	F2	mg/Kg	☼	87	75 - 125	21	20
Chromium	13.2		52.2	63.05		mg/Kg	☼	96	75 - 125	9	20
Lead	61.3		52.2	117.2		mg/Kg	☼	107	75 - 125	1	20

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

Lab Sample ID: 480-181404-4 MSD — **Client Sample ID: TP-3 3in-1tt**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 571149 — **Prep Batch: 571054**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	1.1	J F1 F2	52.2	48.29	F2	mg/Kg	☼	90	75 - 125	21	20
Silver	ND	F1	13.0	11.30		mg/Kg	☼	87	75 - 125	17	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-570593/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 570653 — **Prep Batch: 570593**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.015	0.0062	mg/Kg		02/25/21 16:48	02/25/21 18:17	1

Lab Sample ID: LCSSRM 480-570593/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 570653 — **Prep Batch: 570593**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	25.22		mg/Kg		92.7	59.9 - 140.1

Lab Sample ID: 480-181404-1 MS — **Client Sample ID: TP-1 3in-1.5ft**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 570653 — **Prep Batch: 570593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.19		0.401	0.558		mg/Kg	☼	93	80 - 120

Lab Sample ID: 480-181404-1 MSD — **Client Sample ID: TP-1 3in-1.5ft**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 570653 — **Prep Batch: 570593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.411	0.590		mg/Kg	☼	99	80 - 120	6	20

Lab Sample ID: MB 480-570947/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 571081 — **Prep Batch: 570947**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0073	mg/Kg		03/02/21 13:23	03/02/21 14:48	1

Lab Sample ID: LCSSRM 480-570947/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 571081 — **Prep Batch: 570947**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	26.84		mg/Kg		98.7	59.9 - 140.1

GC/MS Semi VOA

Prep Batch: 570721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	3550C	
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	3550C	
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	3550C	
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	3550C	
MB 480-570721/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-570721/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 570909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	8270D	570721
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	8270D	570721
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	8270D	570721
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	8270D	570721
MB 480-570721/1-A	Method Blank	Total/NA	Solid	8270D	570721
LCS 480-570721/2-A	Lab Control Sample	Total/NA	Solid	8270D	570721

GC Semi VOA

Prep Batch: 570757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	3550C	
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	3550C	
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	3550C	
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	3550C	
MB 480-570757/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-570757/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	3550C	
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	3550C	

Analysis Batch: 570820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	8082A	570757
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	8082A	570757
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	8082A	570757
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	8082A	570757
MB 480-570757/1-A	Method Blank	Total/NA	Solid	8082A	570757
LCS 480-570757/2-A	Lab Control Sample	Total/NA	Solid	8082A	570757
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	8082A	570757
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	8082A	570757

Metals

Prep Batch: 570593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	7471B	
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	7471B	
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	7471B	
MB 480-570593/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-570593/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	7471B	
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	7471B	

Metals

Analysis Batch: 570653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	7471B	570593
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	7471B	570593
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	7471B	570593
MB 480-570593/1-A	Method Blank	Total/NA	Solid	7471B	570593
LCSSRM 480-570593/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	570593
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	7471B	570593
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	7471B	570593

Prep Batch: 570723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	3050B	
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	3050B	
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	3050B	
MB 480-570723/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-570723/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	3050B	
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	3050B	

Prep Batch: 570947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	7471B	
MB 480-570947/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-570947/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 570991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	6010C	570723
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	6010C	570723
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	6010C	570723
MB 480-570723/1-A	Method Blank	Total/NA	Solid	6010C	570723
LCSSRM 480-570723/2-A	Lab Control Sample	Total/NA	Solid	6010C	570723
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	6010C	570723
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	6010C	570723

Prep Batch: 571054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	3050B	
MB 480-571054/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-571054/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-181404-4 MS	TP-3 3in-1tt	Total/NA	Solid	3050B	
480-181404-4 MSD	TP-3 3in-1tt	Total/NA	Solid	3050B	

Analysis Batch: 571081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	7471B	570947
MB 480-570947/1-A	Method Blank	Total/NA	Solid	7471B	570947
LCSSRM 480-570947/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	570947

Analysis Batch: 571082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	6010C	570723

Metals (Continued)

Analysis Batch: 571082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	6010C	570723
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	6010C	570723
MB 480-570723/1-A	Method Blank	Total/NA	Solid	6010C	570723
LCSSRM 480-570723/2-A	Lab Control Sample	Total/NA	Solid	6010C	570723
480-181404-1 MS	TP-1 3in-1.5ft	Total/NA	Solid	6010C	570723
480-181404-1 MSD	TP-1 3in-1.5ft	Total/NA	Solid	6010C	570723

Analysis Batch: 571149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	6010C	571054
MB 480-571054/1-A	Method Blank	Total/NA	Solid	6010C	571054
LCSSRM 480-571054/2-A	Lab Control Sample	Total/NA	Solid	6010C	571054
480-181404-4 MS	TP-3 3in-1tt	Total/NA	Solid	6010C	571054
480-181404-4 MSD	TP-3 3in-1tt	Total/NA	Solid	6010C	571054

General Chemistry

Analysis Batch: 570627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-1	TP-1 3in-1.5ft	Total/NA	Solid	Moisture	
480-181404-2	TP-2 3in-1ft	Total/NA	Solid	Moisture	
480-181404-3	TP-7 3in-1ft	Total/NA	Solid	Moisture	

Analysis Batch: 570762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181404-4	TP-3 3in-1tt	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181404-1
Project/Site: Benchmark - 703 E. Delavan site

Client Sample ID: TP-1 3in-1.5ft
Lab Sample ID: 480-181404-1
Date Collected: 02/24/21 09:00
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570627	02/25/21 15:31	IMZ	TAL BUF

Client Sample ID: TP-1 3in-1.5ft
Lab Sample ID: 480-181404-1
Date Collected: 02/24/21 09:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570721	02/26/21 10:27	LMS	TAL BUF
Total/NA	Analysis	8270D		5	570909	03/01/21 15:30	JMM	TAL BUF
Total/NA	Prep	3550C			570757	02/26/21 15:09	ATG	TAL BUF
Total/NA	Analysis	8082A		1	570820	02/28/21 19:23	NC	TAL BUF
Total/NA	Prep	3050B			570723	02/26/21 13:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570991	03/01/21 18:32	LMH	TAL BUF
Total/NA	Prep	3050B			570723	02/26/21 13:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571082	03/02/21 14:50	AMH	TAL BUF
Total/NA	Prep	7471B			570593	02/25/21 16:48	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570653	02/25/21 18:19	BMB	TAL BUF

Client Sample ID: TP-2 3in-1ft
Lab Sample ID: 480-181404-2
Date Collected: 02/24/21 10:00
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570627	02/25/21 15:31	IMZ	TAL BUF

Client Sample ID: TP-2 3in-1ft
Lab Sample ID: 480-181404-2
Date Collected: 02/24/21 10:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570721	02/26/21 10:27	LMS	TAL BUF
Total/NA	Analysis	8270D		1	570909	03/01/21 15:55	JMM	TAL BUF
Total/NA	Prep	3550C			570757	02/26/21 15:09	ATG	TAL BUF
Total/NA	Analysis	8082A		1	570820	02/28/21 19:39	NC	TAL BUF
Total/NA	Prep	3050B			570723	02/26/21 13:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570991	03/01/21 19:02	LMH	TAL BUF
Total/NA	Prep	3050B			570723	02/26/21 13:25	ADM	TAL BUF
Total/NA	Analysis	6010C		2	571082	03/02/21 15:13	AMH	TAL BUF
Total/NA	Prep	7471B			570593	02/25/21 16:48	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570653	02/25/21 18:25	BMB	TAL BUF

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181404-1
Project/Site: Benchmark - 703 E. Delavan site

Client Sample ID: TP-7 3in-1ft
Lab Sample ID: 480-181404-3
Date Collected: 02/24/21 13:00
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570627	02/25/21 15:31	IMZ	TAL BUF

Client Sample ID: TP-7 3in-1ft
Lab Sample ID: 480-181404-3
Date Collected: 02/24/21 13:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570721	02/26/21 10:27	LMS	TAL BUF
Total/NA	Analysis	8270D		5	570909	03/01/21 16:19	JMM	TAL BUF
Total/NA	Prep	3550C			570757	02/26/21 15:09	ATG	TAL BUF
Total/NA	Analysis	8082A		1	570820	02/28/21 19:55	NC	TAL BUF
Total/NA	Prep	3050B			570723	02/26/21 13:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570991	03/01/21 19:06	LMH	TAL BUF
Total/NA	Prep	3050B			570723	02/26/21 13:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571082	03/02/21 15:17	AMH	TAL BUF
Total/NA	Prep	7471B			570593	02/25/21 16:48	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570653	02/25/21 18:26	BMB	TAL BUF

Client Sample ID: TP-3 3in-1tt
Lab Sample ID: 480-181404-4
Date Collected: 02/24/21 11:00
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	570762	02/26/21 16:31	CLA	TAL BUF

Client Sample ID: TP-3 3in-1tt
Lab Sample ID: 480-181404-4
Date Collected: 02/24/21 11:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			570721	02/26/21 15:06	LMS	TAL BUF
Total/NA	Analysis	8270D		5	570909	03/01/21 17:07	JMM	TAL BUF
Total/NA	Prep	3550C			570757	02/26/21 15:09	ATG	TAL BUF
Total/NA	Analysis	8082A		1	570820	02/28/21 20:59	NC	TAL BUF
Total/NA	Prep	3050B			571054	03/02/21 12:40	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571149	03/02/21 18:35	LMH	TAL BUF
Total/NA	Prep	7471B			570947	03/02/21 13:23	BMB	TAL BUF
Total/NA	Analysis	7471B		1	571081	03/02/21 15:24	BMB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181404-1
Project/Site: Benchmark - 703 E. Delavan site

Laboratory: Eurofins TestAmerica, 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	03-31-21

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL 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:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181404-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181404-1	TP-1 3in-1.5ft	Solid	02/24/21 09:00	02/24/21 14:20	
480-181404-2	TP-2 3in-1ft	Solid	02/24/21 10:00	02/24/21 14:20	
480-181404-3	TP-7 3in-1ft	Solid	02/24/21 13:00	02/24/21 14:20	
480-181404-4	TP-3 3in-1tt	Solid	02/24/21 11:00	02/24/21 14:20	

Chain of Custody Record

Client Information	Sampler: Nick Surai	Lab PM: Brian Fischer	Carrier Tracking No(s):	COC No:
Client Contact:	Phone: 716-713-3937	E-Mail: CBoron@BM-Tk.com	State of Origin:	Page:
Company: Benchmark EES		Accreditations Required (See note):		Job #:
Address: 2558 Hamburg, Tpke	Due Date Requested: Standard			
City: Buffalo, NY, 14218	TAT Requested (days): Standard			
State, Zip:				
Phone: 716-713-3937	PO #: B0408-021-002			
Email: CBoron@BM-Tk.com	WO #:			
Project Name: 703 east delevan	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL SVOC's Base-Neutral	RCRA 8 Metals	PCB's	Total Number of containers	Special Instructions/Note:
Preservation Code:											
TP-1 3'-1.5' Ft	2/24/21	9:00	G	S			X	X	X	2	
TP-2 3'-1 Ft		10:00					X	X	X	2	
TP-3 3'-1 Ft		11:00					X	X	X	2	
TP-7 3'-1 Ft		13:00					X	X	X	2	

480-181404 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract labor currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instruct Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

e laboratory does not ought to TestAmerica

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		2/24/21 14:20	BMTK			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	2/24/21 1420	TAT

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.4 #1 ICE

Ver: 09/20/2016

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-155501-34448.3
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page 3 of 3
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-713-3937	PO #: [redacted]			
Email: [redacted]@Benchmark-Tic.com	WO #:			
Project Name: [redacted] 703 East Delevan	Project #: 48017437			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	[redacted] TCL SVOC's Base Neutral	[redacted] RCRA 8 Metals	[redacted] PCB's	PFC_ID: [redacted] (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
TP-3 3'-1Ft	2/24/21	11:00	G	Solid			X	X	X			X This is missing Bottle work From Project Analyze ASAP with rest of Project
				Solid								
				Solid								
				Solid								

480-181404 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements: Part of Previous Project Analyze ASAP

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 2/25/21 14:00	Company	Received by:		Date/Time: 2/26/21 1030	Company TT	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1 # ICE

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-181404-1

Login Number: 181404

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 #1 ICE
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?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	NO volume recieved for TP-3 3'-1ft
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181406-1
Client Project/Site: Benchmark - 703 E. Delavan site

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron

Authorized for release by:
3/11/2021 1:34:07 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181406-1
Project/Site: Benchmark - 703 E. Delavan site

Qualifiers

Metals

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.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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
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

Job ID: 480-181406-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181406-1

Comments
No additional comments.

Receipt
The samples were received on 2/24/2021 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

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

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Client Sample ID: TP-4 3in-2ft — Lab Sample ID: 480-181406-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12.9		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	138	F1	0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.0		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	224	F2	0.64	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	273		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	4.5	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Silver	0.54	J	0.76	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.15		0.023	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-5 3in-2ft — Lab Sample ID: 480-181406-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14.8		2.4	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	101		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.45		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	44.0		0.59	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	2570		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Selenium	6.3		4.7	0.47	mg/Kg	1	☼	6010C	Total/NA
Silver	0.70	J	0.71	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.34		0.021	0.0084	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-6 3in-2ft — Lab Sample ID: 480-181406-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.2		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	135		0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.45		0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	33.8		0.65	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	152		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.1	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Silver	0.36	J	0.78	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.21		0.022	0.0088	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-8 3in-1ft — Lab Sample ID: 480-181406-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14.1		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	249		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.4		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	196		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	337		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Selenium	4.2	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Silver	0.61	J	0.76	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.26		0.027	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Client Sample ID: TP-4 3in-2ft
Date Collected: 02/24/21 11:30
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181406-1
Matrix: Solid
Percent Solids: 80.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.9		2.5	0.51	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1
Barium	138	F1	0.64	0.14	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1
Cadmium	1.0		0.25	0.038	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1
Chromium	224	F2	0.64	0.25	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1
Lead	273		1.3	0.31	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1
Selenium	4.5	J	5.1	0.51	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1
Silver	0.54	J	0.76	0.25	mg/Kg	☼	03/04/21 12:24	03/06/21 02:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.023	0.0091	mg/Kg	☼	03/05/21 14:28	03/05/21 15:53	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Client Sample ID: TP-5 3in-2ft
Date Collected: 02/24/21 12:00
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181406-2
Matrix: Solid
Percent Solids: 82.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.8		2.4	0.47	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1
Barium	101		0.59	0.13	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1
Cadmium	0.45		0.24	0.036	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1
Chromium	44.0		0.59	0.24	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1
Lead	2570		1.2	0.28	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1
Selenium	6.3		4.7	0.47	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1
Silver	0.70	J	0.71	0.24	mg/Kg	☼	03/04/21 12:24	03/06/21 03:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.021	0.0084	mg/Kg	☼	03/05/21 14:28	03/05/21 15:54	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Client Sample ID: TP-6 3in-2ft
Date Collected: 02/24/21 12:30
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181406-3
Matrix: Solid
Percent Solids: 77.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.2		2.6	0.52	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1
Barium	135		0.65	0.14	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1
Cadmium	0.45		0.26	0.039	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1
Chromium	33.8		0.65	0.26	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1
Lead	152		1.3	0.31	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1
Selenium	3.1	J	5.2	0.52	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1
Silver	0.36	J	0.78	0.26	mg/Kg	☼	03/04/21 12:24	03/06/21 03:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.022	0.0088	mg/Kg	☼	03/05/21 14:28	03/05/21 15:56	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Client Sample ID: TP-8 3in-1ft
Date Collected: 02/24/21 13:30
Date Received: 02/24/21 14:20

Lab Sample ID: 480-181406-4
Matrix: Solid
Percent Solids: 76.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.1		2.5	0.51	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1
Barium	249		0.63	0.14	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1
Cadmium	1.4		0.25	0.038	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1
Chromium	196		0.63	0.25	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1
Lead	337		1.3	0.30	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1
Selenium	4.2	J	5.1	0.51	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1
Silver	0.61	J	0.76	0.25	mg/Kg	☼	03/04/21 12:24	03/06/21 03:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.027	0.011	mg/Kg	☼	03/05/21 14:28	03/05/21 15:57	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571342/1-A
Matrix: Solid
Analysis Batch: 571626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.40	mg/Kg		03/04/21 12:24	03/06/21 02:51	1
Barium	ND		0.50	0.11	mg/Kg		03/04/21 12:24	03/06/21 02:51	1
Cadmium	ND		0.20	0.030	mg/Kg		03/04/21 12:24	03/06/21 02:51	1
Chromium	ND		0.50	0.20	mg/Kg		03/04/21 12:24	03/06/21 02:51	1
Lead	ND		1.0	0.24	mg/Kg		03/04/21 12:24	03/06/21 02:51	1
Selenium	ND		4.0	0.40	mg/Kg		03/04/21 12:24	03/06/21 02:51	1
Silver	ND		0.60	0.20	mg/Kg		03/04/21 12:24	03/06/21 02:51	1

Lab Sample ID: LCSSRM 480-571342/2-A
Matrix: Solid
Analysis Batch: 571626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571342

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	162	147.3		mg/Kg		90.9	70.4 - 130.2
Barium	138	124.3		mg/Kg		90.1	74.6 - 124.6
Cadmium	135	120.1		mg/Kg		88.9	74.8 - 124.4
Chromium	117	105.1		mg/Kg		89.8	70.1 - 129.9
Lead	77.6	83.23		mg/Kg		107.3	68.8 - 131.4
Selenium	172	157.0		mg/Kg		91.3	68.0 - 132.6
Silver	24.7	21.77		mg/Kg		88.1	67.2 - 133.2

Lab Sample ID: 480-181406-1 MS
Matrix: Solid
Analysis Batch: 571626

Client Sample ID: TP-4 3in-2ft
Prep Type: Total/NA
Prep Batch: 571342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12.9		49.0	60.37		mg/Kg	☼	97	75 - 125
Barium	138	F1	49.0	180.6		mg/Kg	☼	88	75 - 125
Cadmium	1.0		49.0	47.61		mg/Kg	☼	95	75 - 125
Chromium	224	F2	49.0	319.4	4	mg/Kg	☼	194	75 - 125
Lead	273		49.0	268.5	4	mg/Kg	☼	-8	75 - 125
Selenium	4.5	J	49.0	51.89		mg/Kg	☼	97	75 - 125
Silver	0.54	J	12.3	12.26		mg/Kg	☼	96	75 - 125

Lab Sample ID: 480-181406-1 MSD
Matrix: Solid
Analysis Batch: 571626

Client Sample ID: TP-4 3in-2ft
Prep Type: Total/NA
Prep Batch: 571342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12.9		49.1	56.62		mg/Kg	☼	89	75 - 125	6	20
Barium	138	F1	49.1	208.6	F1	mg/Kg	☼	144	75 - 125	14	20
Cadmium	1.0		49.1	45.76		mg/Kg	☼	91	75 - 125	4	20
Chromium	224	F2	49.1	179.6	4 F2	mg/Kg	☼	-91	75 - 125	56	20
Lead	273		49.1	270.8	4	mg/Kg	☼	-4	75 - 125	1	20

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

Lab Sample ID: 480-181406-1 MSD
Matrix: Solid
Analysis Batch: 571626

Client Sample ID: TP-4 3in-2ft
Prep Type: Total/NA
Prep Batch: 571342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	4.5	J	49.1	47.70		mg/Kg	☼	88	75 - 125	8	20
Silver	0.54	J	12.3	11.83		mg/Kg	☼	92	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-571526/1-A
Matrix: Solid
Analysis Batch: 571541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0079	mg/Kg		03/05/21 14:28	03/05/21 15:51	1

Lab Sample ID: LCSSRM 480-571526/2-A ^10
Matrix: Solid
Analysis Batch: 571541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571526

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	30.14		mg/Kg		110.8	59.9 - 140.1

Metals

Prep Batch: 571342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181406-1	TP-4 3in-2ft	Total/NA	Solid	3050B	
480-181406-2	TP-5 3in-2ft	Total/NA	Solid	3050B	
480-181406-3	TP-6 3in-2ft	Total/NA	Solid	3050B	
480-181406-4	TP-8 3in-1ft	Total/NA	Solid	3050B	
MB 480-571342/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-571342/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-181406-1 MS	TP-4 3in-2ft	Total/NA	Solid	3050B	
480-181406-1 MSD	TP-4 3in-2ft	Total/NA	Solid	3050B	

Prep Batch: 571526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181406-1	TP-4 3in-2ft	Total/NA	Solid	7471B	
480-181406-2	TP-5 3in-2ft	Total/NA	Solid	7471B	
480-181406-3	TP-6 3in-2ft	Total/NA	Solid	7471B	
480-181406-4	TP-8 3in-1ft	Total/NA	Solid	7471B	
MB 480-571526/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-571526/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 571541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181406-1	TP-4 3in-2ft	Total/NA	Solid	7471B	571526
480-181406-2	TP-5 3in-2ft	Total/NA	Solid	7471B	571526
480-181406-3	TP-6 3in-2ft	Total/NA	Solid	7471B	571526
480-181406-4	TP-8 3in-1ft	Total/NA	Solid	7471B	571526
MB 480-571526/1-A	Method Blank	Total/NA	Solid	7471B	571526
LCSSRM 480-571526/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	571526

Analysis Batch: 571626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181406-1	TP-4 3in-2ft	Total/NA	Solid	6010C	571342
480-181406-2	TP-5 3in-2ft	Total/NA	Solid	6010C	571342
480-181406-3	TP-6 3in-2ft	Total/NA	Solid	6010C	571342
480-181406-4	TP-8 3in-1ft	Total/NA	Solid	6010C	571342
MB 480-571342/1-A	Method Blank	Total/NA	Solid	6010C	571342
LCSSRM 480-571342/2-A	Lab Control Sample	Total/NA	Solid	6010C	571342
480-181406-1 MS	TP-4 3in-2ft	Total/NA	Solid	6010C	571342
480-181406-1 MSD	TP-4 3in-2ft	Total/NA	Solid	6010C	571342

General Chemistry

Analysis Batch: 572036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181406-1	TP-4 3in-2ft	Total/NA	Solid	Moisture	
480-181406-2	TP-5 3in-2ft	Total/NA	Solid	Moisture	
480-181406-3	TP-6 3in-2ft	Total/NA	Solid	Moisture	
480-181406-4	TP-8 3in-1ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Client Sample ID: TP-4 3in-2ft
Lab Sample ID: 480-181406-1
Date Collected: 02/24/21 11:30
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	572036	03/10/21 15:29	IMZ	TAL BUF

Client Sample ID: TP-4 3in-2ft
Lab Sample ID: 480-181406-1
Date Collected: 02/24/21 11:30
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			571342	03/04/21 12:24	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571626	03/06/21 02:58	AMH	TAL BUF
Total/NA	Prep	7471B			571526	03/05/21 14:28	BMB	TAL BUF
Total/NA	Analysis	7471B		1	571541	03/05/21 15:53	BMB	TAL BUF

Client Sample ID: TP-5 3in-2ft
Lab Sample ID: 480-181406-2
Date Collected: 02/24/21 12:00
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	572036	03/10/21 15:29	IMZ	TAL BUF

Client Sample ID: TP-5 3in-2ft
Lab Sample ID: 480-181406-2
Date Collected: 02/24/21 12:00
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			571342	03/04/21 12:24	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571626	03/06/21 03:28	AMH	TAL BUF
Total/NA	Prep	7471B			571526	03/05/21 14:28	BMB	TAL BUF
Total/NA	Analysis	7471B		1	571541	03/05/21 15:54	BMB	TAL BUF

Client Sample ID: TP-6 3in-2ft
Lab Sample ID: 480-181406-3
Date Collected: 02/24/21 12:30
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	572036	03/10/21 15:29	IMZ	TAL BUF

Client Sample ID: TP-6 3in-2ft
Lab Sample ID: 480-181406-3
Date Collected: 02/24/21 12:30
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			571342	03/04/21 12:24	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571626	03/06/21 03:32	AMH	TAL BUF
Total/NA	Prep	7471B			571526	03/05/21 14:28	BMB	TAL BUF
Total/NA	Analysis	7471B		1	571541	03/05/21 15:56	BMB	TAL BUF

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181406-1
Project/Site: Benchmark - 703 E. Delavan site

Client Sample ID: TP-8 3in-1ft
Lab Sample ID: 480-181406-4
Date Collected: 02/24/21 13:30
Matrix: Solid
Date Received: 02/24/21 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	572036	03/10/21 15:29	IMZ	TAL BUF

Client Sample ID: TP-8 3in-1ft
Lab Sample ID: 480-181406-4
Date Collected: 02/24/21 13:30
Matrix: Solid
Date Received: 02/24/21 14:20
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			571342	03/04/21 12:24	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571626	03/06/21 03:36	AMH	TAL BUF
Total/NA	Prep	7471B			571526	03/05/21 14:28	BMB	TAL BUF
Total/NA	Analysis	7471B		1	571541	03/05/21 15:57	BMB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181406-1
Project/Site: Benchmark - 703 E. Delavan site

Laboratory: Eurofins TestAmerica, 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	03-31-21

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-181406-1
Project/Site: Benchmark - 703 E. Delavan site

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL 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:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 703 E. Delavan site

Job ID: 480-181406-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181406-1	TP-4 3in-2ft	Solid	02/24/21 11:30	02/24/21 14:20	
480-181406-2	TP-5 3in-2ft	Solid	02/24/21 12:00	02/24/21 14:20	
480-181406-3	TP-6 3in-2ft	Solid	02/24/21 12:30	02/24/21 14:20	
480-181406-4	TP-8 3in-1ft	Solid	02/24/21 13:30	02/24/21 14:20	

Chain of Custody Record

Client Information	Sampler: Nicic Surai	Lab PM: Brian Fischer	Carrier Tracking No(s):	COC No:
Client Contact:	Phone: 716-713-3937	E-Mail:	State of Origin:	Page:
Company: BenchMark EES		Accreditations Required (See note):		Job #:
Address: 2558 Hamburg TPike	Due Date Requested: Standard			
City: Buffalo	TAT Requested (days): Standard			
State, Zip: NY, 14216				
Phone: 716-713-3937	PO #: B0408-021-002			
Email: CBoron@BM-TK.com	WO #:			
Project Name: 703 east Delevan	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL SVOC's Base Neutral	RCRA 8 Metals	PCB's	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
TP-4 3IN-2Ft	2/24/21	11:30	G	S							on Hold
TP-5 3IN-2Ft		12:00									on Hold
TP-6 3IN-2Ft		12:30									on Hold
TP-8 3IN-1Ft		13:30									on Hold

480-181406 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		2/24/21 14:20				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/24/21 1420	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4 # ICE

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-181406-1

Login Number: 181406

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 #1 ICE
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?	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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

ANALYTICAL REPORT

Lab Number:	L2120973
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	703 EAST DELEVAN
Project Number:	B0408-021-002
Report Date:	04/26/21

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

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

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002

Lab Number: L2120973
Report Date: 04/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2120973-01	MW-1	WATER	BUFFALO, NY	04/23/21 13:30	04/23/21

Project Name:	703 EAST DELEVAN	**Lab Number:**	L2120973
Project Number:	B0408-021-002	**Report Date:**	04/26/21

Case Narrative

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

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

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

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

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

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

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002
Lab Number: L2120973
Report Date: 04/26/21

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 04/26/21

ORGANICS

VOLATILES

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002
Lab Number: L2120973
Report Date: 04/26/21

SAMPLE RESULTS

Lab ID: L2120973-01
Client ID: MW-1
Sample Location: BUFFALO, NY

Date Collected: 04/23/21 13:30
Date Received: 04/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/21 11:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.36	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002
Lab Number: L2120973
Report Date: 04/26/21

SAMPLE RESULTS

Lab ID: L2120973-01
Client ID: MW-1
Sample Location: BUFFALO, NY
Date Collected: 04/23/21 13:30
Date Received: 04/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	101		70-130

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002
Lab Number: L2120973
Report Date: 04/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/21 09:45
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1490756-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002
Lab Number: L2120973
Report Date: 04/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/21 09:45
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1490756-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002
Lab Number: L2120973
Report Date: 04/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/21 09:45
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1490756-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 703 EAST DELEVAN

Project Number: B0408-021-002

Lab Number: L2120973

Report Date: 04/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1490756-3 WG1490756-4								
Methylene chloride	97		97		70-130	0		20
1,1-Dichloroethane	96		98		70-130	2		20
Chloroform	95		95		70-130	0		20
Carbon tetrachloride	89		90		63-132	1		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	93		100		63-130	7		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	80		82		62-150	2		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	97		100		67-130	3		20
Bromodichloromethane	92		95		67-130	3		20
trans-1,3-Dichloropropene	94		94		70-130	0		20
cis-1,3-Dichloropropene	91		94		70-130	3		20
Bromoform	98		100		54-136	2		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		99		70-130	1		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	76		75		64-130	1		20
Bromomethane	120		130		39-139	8		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 703 EAST DELEVAN

Project Number: B0408-021-002

Lab Number: L2120973

Report Date: 04/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1490756-3 WG1490756-4								
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	96		96		61-145	0		20
trans-1,2-Dichloroethene	95		98		70-130	3		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	81		85		63-130	5		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	99		99		70-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	83		84		36-147	1		20
Acetone	81		88		58-148	8		20
Carbon disulfide	86		90		51-130	5		20
2-Butanone	97		100		63-138	3		20
4-Methyl-2-pentanone	130		130		59-130	0		20
2-Hexanone	100		110		57-130	10		20
Bromochloromethane	97		100		70-130	3		20
1,2-Dibromoethane	98		95		70-130	3		20
1,2-Dibromo-3-chloropropane	98		100		41-144	2		20
Isopropylbenzene	92		89		70-130	3		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 703 EAST DELEVAN

Project Number: B0408-021-002

Lab Number: L2120973

Report Date: 04/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1490756-3 WG1490756-4								
1,2,4-Trichlorobenzene	110		110		70-130	0		20
Methyl Acetate	73		80		70-130	9		20
Cyclohexane	130		120		70-130	8		20
1,4-Dioxane	100		92		56-162	8		20
Freon-113	90		90		70-130	0		20
Methyl cyclohexane	95		96		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	111		108		70-130
4-Bromofluorobenzene	84		85		70-130
Dibromofluoromethane	97		101		70-130

Project Name: 703 EAST DELEVAN
Project Number: B0408-021-002

Lab Number: L2120973
Report Date: 04/26/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	*Custody Seal*
A	Absent

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2120973-01A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2120973-01B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2120973-01C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	703 EAST DELEVAN	**Lab Number:**	L2120973
Project Number:	B0408-021-002	**Report Date:**	04/26/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	703 EAST DELEVAN	**Lab Number:**	L2120973
Project Number:	B0408-021-002	**Report Date:**	04/26/21

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	703 EAST DELEVAN	**Lab Number:**	L2120973
Project Number:	B0408-021-002	**Report Date:**	04/26/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	703 EAST DELEVAN	**Lab Number:**	L2120973
Project Number:	B0408-021-002	**Report Date:**	04/26/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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TEL: 508-898-9220
FAX: 508-898-9193

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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 04/24/21

ALPHA Job #: L2120973

Client Information
Client: Turkey Env Restoration
Address: 2558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716-715-3937
Fax:
Email: CBoron@BA-Tec.com

Project Information
Project Name: 703 East Delavan
Project Location: Buffalo NY
Project #: B0408-021-002
(Use Project name as Project #) ☐
Project Manager: Chris Boron
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1 Day

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC's	Total Bottle
20973-01	MW-1	4/23/21	13:30	GW	MJ	X	3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: V
Preservative: B

Relinquished By:	Date/Time	Received By:	Date/Time
	4/23/21 18:00	SECURE STORAGE AAL	4/23/21 14:00
RCunningham AAL	4/23/21 16:39	RCunningham AAL	4/23/21 16:39
SECURE STORAGE AAL	4/23/21 16:39		4/24/21 01:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)