Construction Completion Report – On-Site Wooded Area Soil Removal Former Union Fork & Hoe Facility 253 East Main Street Frankfort, New York NYSDEC Site No. 6-22-011

Tetra Tech Project #194-1197-0003 May 2021

PRESENTED TO

The Ames Companies
Camp Hill, Pennsylvania

PRESENTED BY

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"I, Glenn Netuschil, P.E., certify that I am currently a licensed New York State Professional Engineer and that this Construction Completion Report was prepared in accordance with all applicable statutes and regulations in the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and in substantial conformance with the NYSDEC-approved On-Site Wooded Area Soil Removal Plan."

Glenn Netuschil, P.E.

Date

5-26-2021

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1.0 **INTRODUCTION**

Tetra Tech, Inc. (Tetra Tech), on behalf of The Ames Companies, is submitting to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) this Construction Completion Report (CCR) for the former Union Fork & Hoe (UFH) facility located at 253 East Main Street in Frankfort, Herkimer County, New York (the "Site"; Figure 1). This CCR documents the on-site Wooded Area soil removal at the Site that was implemented in general conformance with the NYSDEC-approved On-Site Wooded Area Soil Removal Plan (Removal Plan) prepared by Tetra Tech dated November 16, 2020 (Tetra Tech, 2020a). The soil removal in the Wooded Area was part of the overall remedy for the Site which will be discussed in a separate CCR (by others).

1.1 CONSTRUCTION COMPLETION REPORT OBJECTIVES

The objectives of the CCR are to provide the following:

- 1. Documentation that the remedial activities were completed per the approved Removal Plan
- 2. A description of the remedial activities implemented
- 3. Clean backfill documentation
- 4. A summary of waste disposal information, including waste characterization sampling and disposal documentation

2.0 SITE DESCRIPTION AND BACKGROUND

The Site is approximately rectangular in shape, and bounded by East Orchard Street to the northwest, East Main Street to the southwest, residential and commercial uses to the northwest, a former railroad easement on the northeast side, and industrial and commercial uses on the southeast side (see Figure 1). The Site has historically been used for manufacturing of hoes, shovels, forks, and other hand tools by Union Tools (purchased by Ames True Temper in 2006) for more than 100 years (BBJG, 2015). Manufacturing processes conducted at the Site included forging, stamping, painting, varnishing, and milling. Operations ceased in December 2006 and all remaining Site buildings were demolished in 2012.

The previous on-site soil excavation activities were conducted pursuant to the March 2018 Record of Decision (ROD) and February 2019 Draft Remedial Action Work Plan (RAWP) (O'Brien & Gere [OBG], 2019). The impacted surface soil was removed from much of the northern and southern portions of the Site in early 2020, and northeast of the concrete pads along the northern property boundary. In accordance with the 2019 RAWP, a consolidated area of excavated soil was constructed on the Site with a vegetative soil cover. The remaining intact portions of the Site consist of the concrete pads and a Wooded Area in the central portion of the Site shown on Figure 1 ("Wooded Area").

2.1 WOODED AREA SOIL SAMPLING SUMMARY

Lead was previously detected at concentrations exceeding its commercial Soil Cleanup Objective (SCO) at the Wooded Area and in confirmation samples collected from the former excavated area abutting the Wooded Area. The purpose of the soil sampling was to pre-characterize the limits of soil removal required to address the elevated lead. Elevated concentrations of lead were detected above the corresponding commercial SCO at the on-site Wooded Area during the soil sampling activities conducted in August 2020 as discussed in correspondence prepared by Tetra Tech to the NYSDEC dated September 21, 2020 (Tetra Tech, 2020b). The sampling event included screening soil in the field for lead utilizing an x-ray fluorescence (XRF) analyzer, and the collection of verification soil samples from the screened locations for laboratory analyses within the former excavated area and the Wooded Area. As per the NYSDEC approval letter, Tetra Tech also performed lead screening of the floor and sidewall confirmation sample locations within the former excavated area which exceeded the commercial SCO of 1,000 parts per million (ppm) for lead. The previous samples exceeding the commercial SCO were sidewall samples S1240, S1241, S1242, S1243, and S1244, and floor samples F2214, F2215, and F2216 as shown on Figure 2.

At each of the sidewall sample locations, Tetra Tech screened soil from the interval immediately below the clean fill material to 1 foot below ground surface (bgs) and at 1-foot depth intervals until the lead concentration was below 1,000 ppm using the XRF field-screening analyzer. The concentration of lead in soil screened at locations S1240 and S1244 was below 1,000 ppm; therefore, screening intervals advanced to a total depth of 2 feet bgs. Soil screened from the 2 to 12-inch depth interval at locations S1241, S1242, and S1243 exhibited lead concentrations of 1,004 ppm, 2,243 ppm, and 1,760 ppm, respectively. At location S1241, S1242, and S1243, the lead concentrations measured in the underlying interval from 1 to 2 feet bgs were below 1,000 ppm.

Soil was screened at each of the previous floor sampling locations F2214, F2215, and F2216. The requested screening intervals were 18 to 24 inches and 24 to 36 inches below the original grade. The lead concentration measured with the XRF analyzer was below 1,000 ppm in the screened intervals at the floor sampling locations.

Tetra Tech screened soil at a total of 21 locations (DS-01 through DS-21) within the Wooded Area. Screening in the Wooded Area was conducted in two rows, an inner and outer row, beyond the limit of the former excavation into the Wooded Area. Screening started at ten locations (DS-01 through DS-10) forming an inner row approximately 30 feet into the Wooded Area from the limit of the former excavation. Then a second, outer row of screening was conducted at ten locations (DS-11 through DS-20) that were 30 feet farther into the Wooded Area. Due to elevated lead concentrations at DS-11, an additional location, DS-21, was screened approximately 30 feet to the south of DS-11.

Soil at locations DS-01 through DS-07, DS-10, and DS-12 through DS-21 was screened to a total depth of 1 foot bgs because the lead concentrations in the upper two screening intervals were below 1,000 ppm. At location DS-09, the lead concentrations measured by the XRF analyzer in the upper three soil screening intervals (0 to 2 inches, 2 inches to 1 foot, and 1 to 2 feet bgs) were 1,599 ppm, 1,781 ppm, and 2,173 ppm, respectively. Below 3 feet bgs the measured lead concentrations were below 1,000 ppm. From 2 to 3 feet bgs, the lead concentration was 807 ppm; and from 3 feet to 44 inches bgs, the lead concentration was 843 ppm. At location DS-11 soil was screened to a total depth of 5 feet bgs. The lead concentrations measured by the XRF analyzer in the upper three soil screening intervals (0 to 2 inches, 2 inches to 1 feet, 1 to 2 feet bgs) were 893 ppm, 1,244 ppm, and 1,110 ppm, respectively. Lead concentrations measured from 2 to 3 feet bgs and 3 to 4 feet bgs were below 1,000 ppm to qualify as further delineation at 993 ppm and 989 ppm. The lead concentration measured with the XRF analyzer in the deepest interval from 4 to 5 feet bgs was 1,156 ppm.

3.0 SUMMARY OF REMEDIAL ACTION

The following actions were completed as part of the on-site Wooded Area soil removal remedy:

- 1. Site preparation and equipment mobilization
- 2. Clearing and grubbing
- 3. Implementation of erosion and sediment controls
- 4. Excavation and off-site disposal of soil exceeding commercial SCOs for lead near the former excavation area, as shown on Figure 2 and as described below.
 - Shallow excavation of 1 foot bgs in the area located between delineation soil samples (DS-03 to DS-08, DS-12, DS-21 and DS-10) in the Wooded Area and the former sidewall confirmation samples (S1240 to S1244);
 - Shallow excavation to 2 feet bgs in the area of delineation soil sample location DS-09; and
 - Excavation to 5 feet bgs in the area of delineation soil sample location DS-11.
- 5. Implementation of the Community Air Monitoring Plan (CAMP) that was conducted during all ground-intrusive activities
- 6. Placement of a demarcation layer consisting of woven geotextile fabric along the bottom and sides of the excavation areas prior to backfilling
- 7. Import of clean backfill for the excavated areas in compliance with the Division of Remediation's criteria for backfill, as per DER-10 (NYSDEC, 2010)
- 8. The completion of Site restoration activities

3.1 GOVERNING DOCUMENTS

The remedial activities were completed in accordance with the NYSDEC-approved Removal Plan (Tetra Tech, 2020a) and the Site-Specific Health and Safety Plan (HASP), which was included as Appendix A of the Removal Plan.

3.2 REMEDIAL PROGRAM ELEMENTS

The following sections identify the contractor and consultant who performed the remedial action and site preparation and controls utilized to manage the Site. In addition, a summary of the CAMP results is provided in the following sections.

3.2.1 Contractor and Consultant

The project team and associated responsibilities were as follows:

- The Ames Companies Site Owner. Granted access to the Site for the excavation activities.
- Environmental Waste Minimization, Inc. (EWMI) The selected excavation contractor.
 Performed clearing and grubbing, the excavation of soil to the required depths, backfill, decontamination of trucks and heavy equipment, and Site restoration. Contracted the transport and disposal of the contaminated excavated soil.



- Tetra Tech, Inc. Remedial Engineer
 - Glenn Netuschil, P.E., Project Manager and the Engineer of Record, a professional engineer licensed in the State of New York, was responsible for certifying that the remedial construction was completed in substantial conformance with the approved Removal Plan and/or any NYSDEC approved changes.
 - Greg Wissink, Field Oversight.

Tetra Tech provided full-time supervision services for the duration of soil removal activities. Tetra Tech implemented the CAMP. In accordance with the CAMP, monitoring of the upwind and downwind perimeters was conducted during intrusive activities to ensure the protection of the surrounding community.

Tetra Tech performed waste characterization sampling in support of off-site disposal of soil. Tetra Tech also ensured that all components of the Site activities were conducted according to the requirements of the Removal Plan.

3.2.2 Site Preparation

Prior to mobilization, EWMI contacted Dig Safely New York, Inc. to identify and mark, if applicable, known utilities and/or pipelines in the vicinity of the excavation area. EWMI and Tetra Tech mobilized to the Site on January 6, 2021. The mobilization activities included the following:

- Mobilization of remediation equipment and materials and
- Set-up of temporary facilities (e.g., construction trailer and portable toilet)

3.2.3 General Site Controls

The main access during the removal activities was from the existing East Main Street entrance (See Figure 1). The Site is surrounded by an existing perimeter fence with a locked gate. The gate was closed and locked when there was no activity on the Site.

The truck traffic used the existing roadway through the center of the consolidated area to minimize potential impacts to the existing site cover. Trucks were also used to bring the heavy equipment (i.e., excavator) via a trailer to the existing concrete slab area near the Wooded Area for off-loading and loading. Imported gravel was placed on the existing roadway through the center of the consolidated area to stabilize the roadway and prevent tracking of soil offsite.

Site record keeping for all remedial work was appropriately documented. Tetra Tech personnel who conducted the remediation work or provided oversight had completed the 40-hour OSHA Hazardous Waste Operations and Emergency Response training, with annual refreshers as applicable. The excavation activities were performed in Level C personal protective equipment, which included half-mask air-purifying respirators fitted with HEPA (P100, Magenta) cartridges, Tyvek® protective clothing, steel-toed work boots, hard hats, safety glasses, and high visibility clothing (e.g., reflective vests).

Prior to commencing soil removal activities, the former soil sampling locations, as discussed in Section 2.1, were located using a mobile global positioning system (GPS) device capable of measuring to the nearest foot. Following the determination of the limits of soil to be excavated, the Wooded Area was cleared and grubbed to allow access to the excavation area. The trees and brush were removed to ground surface. The vegetative material was chipped and placed in the consolidated area. Any ground or buried debris (i.e., concrete) was removed and staged onsite. The erosion and sedimentation control features, including pre-filled 8-inch compost filter socks, were placed approximately 15 feet from the proposed excavation perimeter at locations surrounding the excavation area.

The temporary soil stockpile area for the excavated soil was established in the paved area near the Site entrance. The soil stockpiles were constructed using poly sheeting and were kept covered at all times with appropriately anchored poly sheeting. The excavated materials suspected to be hazardous waste were staged separately from the non-hazardous waste. Tetra Tech was responsible for overseeing the waste segregation process and confirming that waste was segregated and stockpiled onsite. The Contractor was also responsible for the installation and maintenance of the soil staging area.

3.2.4 CAMP Results

Community air monitoring was conducted in accordance with the NYSDOH Generic Community Air Monitoring Plan, Appendix 1A and 1B of the Technical Guidance for Site Investigation and Remediation (DER-10).

One upwind and one downwind CAMP monitoring stations were operated during all intrusive activities. The instrument used for air monitoring was a dust/particulate monitor DustTrak 2 Monitor 8530, which can integrate readings over periods of 15 minutes. The instrumentation was housed in weather-tight enclosures. Particulate monitoring data were collected when intrusive activities were performed from January 18, 2021, to January 19, 2021.

There were no exceedances of the particulate action level (150 micrograms per liter [μ g/m³]) during performance of the excavation activities. Copies of all field data sheets relating to the CAMP are provided in Appendix A.

3.2.5 Reporting

Tetra Tech prepared and maintained onsite daily field activity reports. Daily field activity reports documented field conditions and activities throughout the performance of the remedial action and included the following information:

- Date and weather
- Listing of personnel onsite
- A summary of work activities performed
- A summary of anticipated future work activities
- A summary of QA/QC testing performed and/or samples collected



3-3 May 2021

- A summary of waste generated
- A summary of materials or equipment delivered to or removed from the Site

All daily reports are included in Appendix B.

3.3 CONTAMINATED MATERIAL REMOVAL

The remedial action involved the removal of non-hazardous soil from the Site. The following sections summarize the soil remedial activities completed.

3.3.1 Soil Excavation

Based on the results of the soil sampling described in Section 2.1, soil was excavated in the Wooded Area to the design vertical and horizontal limits shown on Figure 2. Excavation activities were performed from January 18, 2021 to January 19, 2021.

All excavated soils were disposed of off-site. As per the approved Removal Plan, excavation sidewall and bottom samples were not required.

3.3.1.1 Waste Characterization Sampling

Waste characterization samples were collected from the soil stockpiles for full toxicity characteristic leaching procedure (TCLP) analysis and other analytes as required by the Oneida-Herkimer Solid Waste Authority, located in the Town of Ava, New York. The stockpiled soil from the excavation area was sampled at a frequency of one composite sample per 250 tons which resulted in the collection of three soil stockpile composite samples. The soil stockpile composite samples were analyzed for full TCLP by United States Environmental Protection Agency (USEPA) Method SW846 (i.e., volatile organic compounds, semi-volatile compounds, metals, pesticides, and herbicides) and other analytes as listed below.

- Total Metals (Method 6010C)
- Polychlorinated Biphenyls (PCBs) (Method 8082A)
- Total percent solids, USEPA (160.3M)
- Sulfide reactivity (Method SW846 7.3)
- Cyanide reactivity (Method SW846 7.3CN)
- Ignitability (Method SW846 1030)
- pH (Method SW846, 9045D)
- Paint filter test (Method SW846, 9095B)

A summary of the samples collected to characterize the waste, and associated analytical results is presented on Table 1.

3.3.1.2 Soil Disposal

Approximately 481 tons of soil were removed and properly disposed of offsite as non-hazardous regulated waste on March 10, 2021. The non-hazardous soil was transported to the Ava Landfill



in Booneville, New York for off-site disposal. The soil was transported to the Ava Landfill by Leitz Trucking Corporation of Frankfort, New York. All transport of the excavated soil was performed by licensed haulers in accordance with applicable local, State and Federal regulations, including NYCRR Part 364.

Tetra Tech observed the load-out of the excavated soil. Loaded vehicles leaving the site were appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).

The exterior of trucks leaving the site were free of soil. Once the excavated soil was removed, the poly sheeting and all other components used to construct the soil stockpile areas were collected and loaded with the soil for proper off-site disposal.

Table 2 shows the total quantity of material removed from the Site and the disposal location. Manifests and bills of lading are included in Appendix C.

3.4 IMPORTED BACKFILL

Once the excavation depths were reached, a non-woven geotextile (orange color) demarcation layer was placed on the bottom and sidewalls of the excavated area prior to backfilling. The excavation area was then backfilled with crushed stone prior to placement of the topsoil. The crushed stone met the requirements of DER-10, Section 5.4 and did not require chemical testing. The crushed stone was obtained from a clean source. (Documentation is provided in Appendix D.)

A 6-inch layer of topsoil was placed on top of the crushed stone. The topsoil was transported to the Site by Leitz Trucking Corporation from the Leitz Trucking Corporation's approved source located in Frankfort, New York. Sampling of topsoil material was conducted at the rate specified in Table 5.4(e)10 of DER-10 and analyses were performed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs and inorganics at a NYSDOH Environmental Laboratory Approval Program (ELAP) facility. In addition, one composite soil sample was analyzed for per-and polyfluoroalkyl substances (PFAS) and 1,4-dioxane.

A table of the imported backfill with quantities for each source is shown in Table 3. Imported documentation is provided in Appendix D.

3.4.1 Site Restoration

Erosion control matting was placed on the new vegetative cover area and on any existing soil cover areas disturbed and re-seeded during the soil removal activities.

3.5 DEVIATIONS FROM THE ON-SITE WOODED AREA SOIL REMOVAL PLAN

The deviation from the on-site Wooded Area soil removal plan was limited to the location of the soil stockpiles. The soil stockpiles were to be located and installed on the concrete slab near the excavated area. However, due to concerns with maintaining the stability of the roadway through

the consolidated area, the soil stockpiles were located on existing concrete near the gated entrance to the Site.

4.0 **CONCLUSION**

The soil removal activities successfully removed lead-impacted soils from the on-site Wooded Area. As a result of the remedial activities, the objectives of the on-site Wooded Area soil removal have been met and no further action is required for the on-site Wooded Area and for the entire Site.

5.0 **REFERENCES**

- BBJG, 2015. Remedial Investigation Report, Former Union Fork and Hoe Facility, 253 East Main Street, Frankfort, New York. February 12.
- New York State Department of Environmental Conservation (NYSDEC), 2010. DER-10 Technical Guidance for Site Investigation and Remediation.
- NYSDEC, 2018. Record of Decision, Former Union Fork & Hoe Site No. 622011, Frankfort, New York.
- O'Brien and Gere (OBG), 2019. Draft Remedial Action Work Plan, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York.
- Tetra Tech, 2020a, On-Site Wooded Area Soil Removal Plan, Former Union Fork and Hoe Facility, 253 East Main Street, Frankfort, New York, NYSDEC Site No. 6-22-011.
- Tetra Tech, 2020b, Soil Sampling Results for the Wooded Area Letter Report, Former Union Fork and Hoe Facility, 253 East Main Street, Frankfort, New York, NYSDEC Site No. 6-22-011.

TABLES

Table 1. Summary of Waste Characterization Soil Samples, Former Union Fork and Hoe Site, Frankfort, NY

	Sample Designation:		WC_A_01-011921 WC_A_02-011921		WC_B_01-011921	
		Laboratory ID:	R2100502-001	R2100502-002	R2100502-003	
		Sample Date:	1/19/2021	1/19/2021	1/19/2021	
Parameter	Units	RCRA Regulatory Level (40 CFR 261)				
TCLP Volatile Organic Compounds (VOCs)						
1,1-Dichloroethene	mg/L	0.7	< 0.05	< 0.05	< 0.05	
1,2-Dichloroethane	mg/L	0.5	< 0.05	< 0.05	< 0.05	
2-Butanone (MEK)	mg/L	200	< 0.01	< 0.01	< 0.01	
Benzene	mg/L	0.5	< 0.05	< 0.05	< 0.05	
Carbon tetrachloride	mg/L	0.5	< 0.05	< 0.05	< 0.05	
Chlorobenzene	mg/L	100	< 0.05	< 0.05	< 0.05	
Chloroform	mg/L	6	< 0.05	< 0.05	< 0.05	
Tetrachloroethene (PCE)	mg/L	0.7	< 0.05	< 0.05	< 0.05	
Trichloroethene (TCE)	mg/L	0.5	< 0.05	< 0.05	< 0.05	
Vinyl chloride	mg/L	0.2	< 0.05	< 0.05	< 0.05	
TCLP Semi-Volatile Organic Compounds (SVOCs)						
1,4-Dichlorobenzene	mg/L	7.5	< 0.01	< 0.01	< 0.01	
2,4,5-Trichlorophenol	mg/L	400	< 0.01	< 0.01	< 0.01	
2,4,6-Trichlorophenol	mg/L	2	< 0.01	< 0.01	< 0.01	
2,4-Dinitrotoluene	mg/L	0.13	< 0.01	< 0.01	< 0.01	
2-Methylphenol (o-cresol)	mg/L	200	< 0.01	< 0.01	< 0.01	
3-Methylphenol/4-Methylphenol (m,p-cresol)	mg/L	200	<0.01	< 0.01	< 0.01	
Hexachlorobenzene	mg/L	0.13	<0.01	< 0.01	< 0.01	
Hexachlorobutadiene	mg/L	0.13	<0.01	< 0.01	< 0.01	
Hexachloroethane	mg/L mg/L	3	<0.01	<0.01	<0.01	
Nitrobenzene	mg/L mg/L	2	<0.01	<0.01	<0.01	
		100	<0.01		<0.01 <0.5	
Pentachlorophenol Pyridine	mg/L mg/L	100 5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
Tyrume	mg/L	3	<0.5	<0.5	<0.5	
TCLP Herbicide						
2,4,5-TP (Silvex)	mg/L	1	< 0.005	< 0.005	< 0.005	
Dichlorophenoxyacetic acid (2,4-D)	mg/L	10	< 0.005	< 0.005	< 0.005	
TCLP Pesticide						
BHC, gamma (Lindane)	A	0.4	< 0.0025	< 0.0025	< 0.0025	
	mg/L					
Chlordane	mg/L	0.03	<0.0005	<0.0005	<0.0005	
Endrin	mg/L	0.02	<0.0005	<0.0005	<0.0005	
Heptachlor	mg/L	0.008	< 0.0005	<0.0005	<0.0005	
Heptachlor epoxide	mg/L	0.008	<0.0005	<0.0005	<0.0005	
Methoxychlor	mg/L	10 0.5	<0.0005	<0.0005	<0.0005	
Toxaphene	mg/L	0.3	< 0.005	< 0.005	< 0.005	
TCLP Metals						
Arsenic	mg/L	5	< 0.5	< 0.5	< 0.5	
Barium	mg/L	100	<1.0	<1.0	<1.0	
Cadmium	mg/L	1	< 0.1	< 0.1	< 0.1	
Chromium	mg/L	5	< 0.1	< 0.1	< 0.1	
Lead	mg/L	5	1.09	1.06	0.61	
Mercury	mg/L	0.2	< 0.0003	< 0.0003	< 0.0003	
Selenium	mg/L	1	< 0.5	< 0.5	< 0.5	
Silver	mg/L	5	< 0.1	< 0.1	< 0.1	
C I Ch						
General Chemistry						
Corrosivity as pH	su	<2/>12.5	7.75	7.91	8.06	
Ignitability	-		Not ignitable	Not Ignitable	Not Ignitable	
Paint Filter Test	-		No Free Liquid	No Free Liquid	No Free Liquid	
Reactive cyanide	mg/kg	>250	ND	ND	ND	
Reactive sulfide	mg/kg	>500	ND	ND	ND	
Total Metals						
Arsenic	mg/kg	-	16	14.1	13	
Barium	mg/kg	-	106	87	82.5	
Cadmium	mg/kg	-	0.95	0.82	0.94	
Chromium	mg/kg	-	39.1	20.2	24.6	
Lead	mg/kg	-	1580	947	836	
Mercury	mg/kg	-	0.214	0.212	0.174	
Selenium	mg/kg	-	ND	ND	ND	
Silver	mg/kg	-	ND	ND	ND	
Polychloringted Binhanyle (PCPs)	5 5					
Polychlorinated Biphenyls (PCBs)	ā		N.F.	N/P	275	
Aroclor 1016	μg/kg	-	ND	ND	ND	
Aroclor 1221	μg/kg	-	ND	ND	ND	
Aroclor 1232	μg/kg	-	ND	ND	ND	
Aroclor 1242	μg/kg	-	ND	ND	ND	
Aroclor 1248	μg/kg	-	ND	ND	15000	
Aroclor 1254	μg/kg	-	ND	49	3500	
Aroclor 1260	μg/kg		44	46	ND	

 $\mu \, g/kg$ - Micrograms per kilogram

mg/kg - Milligrams per kilogram

su - Standard Units RCRA - Resource Conservation and Recovery Act

TCLP - Toxicity Characteristic Leaching Procedure ND - Not Detected



Table 2. Summary of Soil Waste from the Wooded Area, Former Union Fork and Hoe Site, 253 E. Main Street, Frankfort, NY

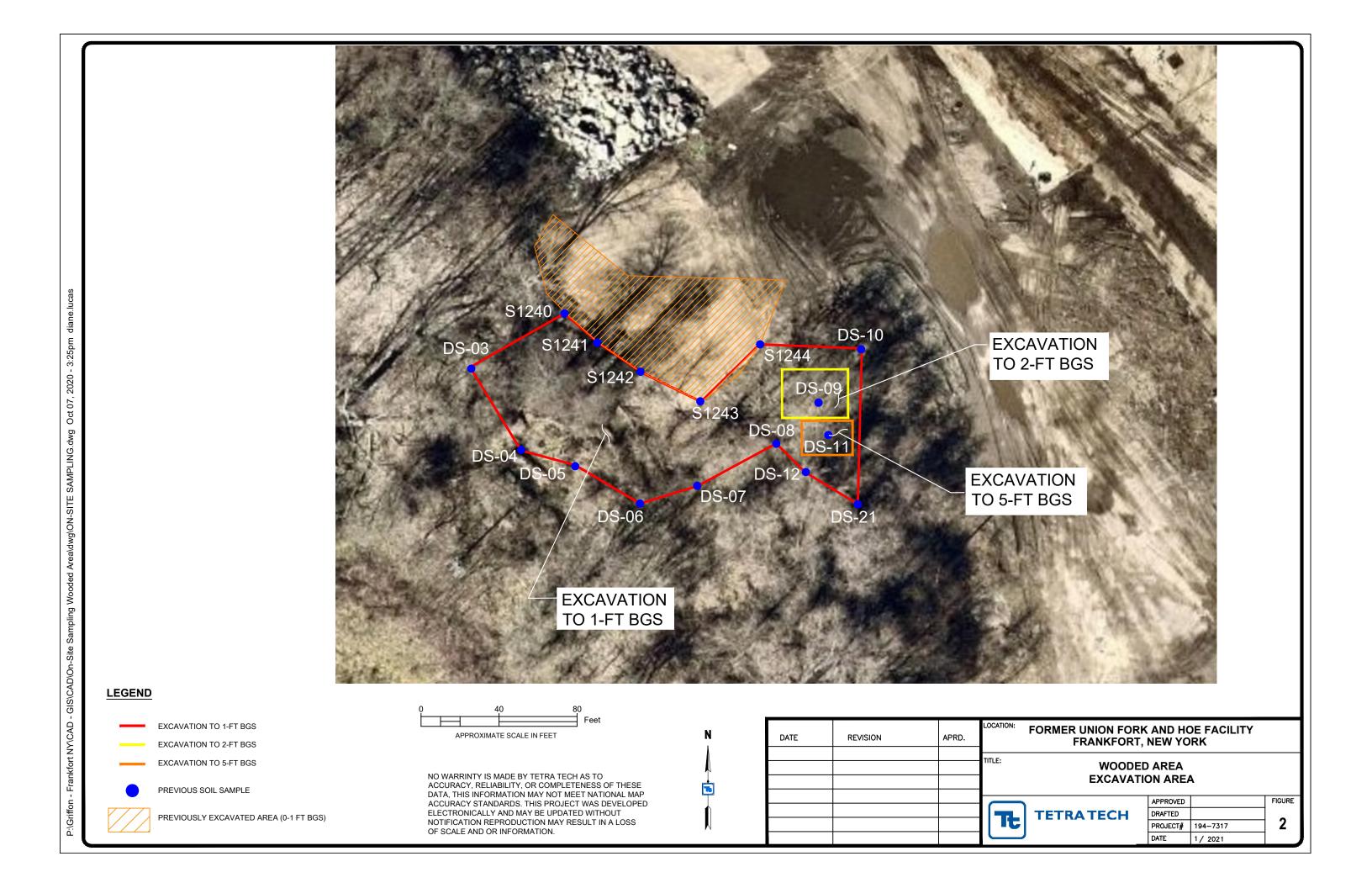
Material Type	Quantity of Material Excavated (tons)	Waste Transporter	Waste Transporter Permit Number	Disposal Facility
Non-Hazardous Soil	481.11	Leitz Trucking Corporation, 162 McIntyre Road, Frankfort, NY	6A-433	Oneida-Herkimer Solid Waste Authority, Ava Landfill, 7044 State Route 294, Boonville, NY 13309

Table 3. Summary of Imported Material, Former Union Fork and Hoe Site, 253 E. Main Street, Frankfort, NY

Type of Material	Location Used on the Site	Quantities Imported	Facility Name	Facility Location
#4A Stone (Gravel)	Stabilization of Consolidated Area Roadway	41.18 Tons	Barrett Paving Materials, Inc.	Liverpool, NY
NYSDOT Type 2 Crusher Run	Backfill for Excavations	539.6 Tons	Barrett Paving Materials, Inc.	Liverpool, NY
Clean Topsoil	Site Restoration	200 Cubic Yards	Leitz Trucking Corporation	Frankfort, NY

FIGURES





APPENDIX A - CAMP DATA

Community Air Monitoring Program - DUST (PM-10)

Project: Former Union Fork and Hoe Site, NYSDEC Site No. 6-22-011

Location: 253 E. Main Street, Frankfort, NY

Date: 1/18/2021

Note - Upwind instrument zero calibrated with very small amount of dirt on filter; negative numbers indicate less than zero calibrated value.

Instrument: DustTrak II

Upwind Serial Number: 8530130210 Downwind Serial Number: 8530094504

Downwind Serial Number: 8530094504						
Upwind Station		Down	nwind Station			
Time	Concentration 15-min Avg. (mg/m ³)	Time	Concentration 15-min Avg. (mg/m ³)	Comments		
8:49:42 AM	0.007	8:55:22 AM	0.008			
9:04:42 AM	0.006	9:10:22 AM	0.004			
9:19:42 AM	0.006	9:25:22 AM	0.001			
9:34:42 AM	0.006	9:40:22 AM	-0.004	See note above.		
9:49:42 AM	0.006	9:55:22 AM	0.003			
10:04:42 AM	0.006	10:10:22 AM	0.003			
10:19:42 AM	0.007	10:25:22 AM	0.003			
10:34:42 AM	0.007	10:40:22 AM	0.004			
10:49:42 AM	0.007	10:55:22 AM	0.004			
11:04:42 AM	0.007	11:10:22 AM	0.006			
11:19:42 AM	0.007	11:25:22 AM	0.006			
11:34:42 AM	0.008	11:40:22 AM	0.006			
11:49:42 AM	0.008	11:55:22 AM	0.006			
12:04:42 PM	0.009	12:10:22 PM	0.006			
12:19:42 PM	0.009	12:25:22 PM	0.002			
12:34:42 PM	0.009	12:40:22 PM	-0.003	See note above.		
12:49:42 PM	0.009	12:55:22 PM	-0.007	See note above.		
1:04:42 PM	0.009	1:10:22 PM	0.004			
1:19:42 PM	0.009	1:25:22 PM	0.007			
1:34:42 PM	0.009	1:40:22 PM	0.008			
1:49:42 PM	0.008	1:55:22 PM	0.003			
2:04:42 PM	0.003	2:10:22 PM	0.008			
2:19:42 PM	0.003	2:25:22 PM	0.008			
2:34:42 PM	0.002	2:40:22 PM	0.008			
2:49:42 PM	0.007	2:55:22 PM	0.010			
3:04:42 PM	0.007	3:10:22 PM	0.008			
3:19:42 PM	0.007	3:25:22 PM	0.009			
3:34:42 PM	0.007	3:40:22 PM	0.008			
3:49:42 PM	0.007	3:55:22 PM	0.014			
4:04:42 PM	0.007	4:10:22 PM	0.012			
4:19:42 PM	0.007	4:25:22 PM	0.008			
4:34:42 PM	0.007	4:40:22 PM	0.008			
4:49:42 PM	0.007	4:55:22 PM	0.011			

Community Air Monitoring Program - DUST (PM-10)

Project: Former Union Fork and Hoe Site, NYSDEC Site No. 6-22-011

Location: 253 E. Main Street, Frankfort, NY

Date: 1/19/2021

Instrument: DustTrak II

Upwind Serial Number: 8530130210 Downwind Serial Number: 8530094504

Up	Upwind Station Downwind Station					
•	Concentration		Concentration	Comments		
Time	15-min Avg. (mg/m ³)	Time	15-min Avg. (mg/m ³)			
8:46:03 AM	0.021	8:50:15 AM	0.022			
9:01:03 AM	0.018	9:05:15 AM	0.021			
9:16:03 AM	0.017	9:20:15 AM	0.022			
9:31:03 AM	0.017	9:35:15 AM	0.021			
9:46:03 AM	0.016	9:50:15 AM	0.021			
10:01:03 AM	0.018	10:05:15 AM	0.022			
10:16:03 AM	0.018	10:20:15 AM	0.021			
10:31:03 AM	0.016	10:35:15 AM	0.021			
10:46:03 AM	0.016	10:50:15 AM	0.022			
11:01:03 AM	0.016	11:05:15 AM	0.021			
11:16:03 AM	0.016	11:20:15 AM	0.021			
11:31:03 AM	0.016	11:35:15 AM	0.021			
11:46:03 AM	0.016	11:50:15 AM	0.021			
12:01:03 PM	0.016	12:05:15 PM	0.022			
12:16:03 PM	0.016	12:20:15 PM	0.021			
12:31:03 PM	0.016	12:35:15 PM	0.021			
12:46:03 PM	0.016	12:50:15 PM	0.027			
1:01:03 PM	0.016	1:05:15 PM	0.021			
1:16:03 PM	0.016	1:20:15 PM	0.021			
1:31:03 PM	0.016	1:35:15 PM	0.022			
1:46:03 PM	0.016	1:50:15 PM	0.021			
2:01:03 PM	0.015	2:05:15 PM	0.021			
2:16:03 PM	0.015	2:20:15 PM	0.022			
2:31:03 PM	0.015	2:35:15 PM	0.021			
2:46:03 PM	0.015	2:50:15 PM	0.021			
3:01:03 PM	0.015	3:05:15 PM	0.021			
3:16:03 PM	0.015	3:20:15 PM	0.020			
3:31:03 PM	0.015	3:35:15 PM	0.022			
3:46:03 PM	0.014	3:50:15 PM	0.021			
4:01:03 PM	0.015	4:05:15 PM	0.021			
4:16:03 PM	0.016	4:20:15 PM	0.019			
4:31:03 PM	0.015	4:35:15 PM	0.021			
4:46:03 PM	0.017	4:50:15 PM	0.020			





DAILY CONSTRUCTION REPORT

DATE: _1/6/21 ARRIVAL HIVIE: _08:45 DEPARTURE HIVIE: _15:55
WEATHER CONDITIONS: 29F, overcast, winds 15-20 mph South
SUMMARY OF WORK / MAJOR ACTIVITIES
EWMI mobilized heavy equipment to the site including an excavator (CAT 316E)
and wheel loader (Deere 544K). EWMI also mobilized a woodchipper and
equipment trailer. EWMI began clearing of vegetation, working outward from
the outer limits of the previous excavation area.
LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):
(1) – Clearing of vegetation (facing west)
(2) – Woodchipper (facing north)
(3) – Equipment used: Excavator and woodchipper (facing west)
(4) – End of the day progress of cleared vegetation (facing south)
PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Glenn Netuschil	Tetra Tech	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Lead contamination, slips/trips/falls due to ice and vegetation, struck-by heavy equipment, COVID-19.

PROBLEMS ENCOUNTERED TODAY: None

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Vegetation clearing will continue on 1/7/21.





Photo 1: Clearing of vegetation.





Photo 2: Wood chipper.





Photo 3: Excavator and wood chipper.





Photo 4: Clearing of vegetation.



DAILY CONSTRUCTION REPORT

DATE: _1/7/21 ARRIVAL TIME:06:55 DEPARTURE TIME:17:00
WEATHER CONDITIONS: 29F, overcast, winds 15-20 mph South
SUMMARY OF WORK / MAJOR ACTIVITIES
EWMI continued the removal of vegetation in the area to be excavated using
the excavator (CAT 316E), loader (Deere 544K), woodchipper, and chain saws.
EWMI placed gravel on the vegetated path between the work site and gated
entrance. The gravel will help stabilize the road surface and remove sediment
from the tires of the vehicles used onsite, preventing offsite transportation of
soil.
LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):
(1) – Clearing of vegetation using excavator (facing south)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
David Herman	NYDEC	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

(2) – Cleared vegetation of the excavation area (facing northeast)

(3) – Cleared vegetation of the excavation area (facing south)

HEALTH & SAFETY TOPICS OR ISSUES: Continued use of face masks, dirt being tracked off-site, lead contamination, Timber falls.

PROBLEMS ENCOUNTERED TODAY: The woodchipper was not operable for approximately 45 minutes due to tangled vines in the chute. EWMI was able to cut the vines and resume work.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: The roadway, which had become rutted and muddy was repaired using gravel.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Vegetation clearing will continue on 1/8/21. Excavations may commence on 1/8/21.















DAILY CONSTRUCTION REPORT

DATE: <u>1/8/21</u> ARRIVAL TIME: <u>06:50</u> DEPARTURE TIME: <u>15:30</u>					
WEATHER CONDITIONS: 19F, overcast, winds 7-10 mph west					
SUMMARY OF WORK / MAJOR ACTIVITIES					
EWMI continued the removal of vegetation in the area to be excavated using					
the excavator (CAT 316E), loader (Deere 544K), woodchipper, and chain saws.					
EWMI placed additional gravel on the vegetated path between the work site					
and gated entrance. EWMI set out erosion control compost filter socks on the					
downgradient slope of the area to be excavated. EWMI required additional					
compost filter socks to complete the erosion control of the soil staging area.					
LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):					
(1) – Timber staged on site (facing west)					
(2) – Cleared vegetation and erosion control socks (facing south)					
(3) – Cleared vegetation and erosion control socks (facing west)					
(4) – Cleared vegetation and erosion control socks (facing north)					
(5) – Gravel-repaired roadway (facing north)					
(6) – Gravel-repaired roadway (facing south)					
(7) – Staged woodchips (facing north)					

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
David Herman	NYDEC	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Tracking debris around the site and offsite, contaminated soil on boots and hands, woodchipper use.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.



STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: The roadway, which had become rutted and muddy was repaired using additional gravel.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Excavations will commence on 1/11/21.



Photo 1





Photo 2





Photo 3



DAILY CONSTRUCTION REPORT

DATE: <u>1/18/21</u>	ARRIVAL TIME: _	06:50	DEPARTURE TIME:	17:00
WEATHER CONDITIO	NS: <u>29F, overcas</u>	t, winds 10-16 mpl	n west	

SUMMARY OF WORK / MAJOR ACTIVITIES

area near former sample locations DS-07 and S1243 and working east towards former sample locations DS-03 and S1240. This area was excavated to a depth of 1 ft below ground surface. An orange demarcation fabric was place over the the excavated area to be covered with fill at a later date. Removed soil was staged on 6-mil polyurethane located on a concrete pad near the entrance. At the base of the excavation, a concrete surface (possible former roadway) was encountered approximately 1 ft below ground surface. Pieces were removed when necessary but majority was left in place as it did not impact the scope

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

- (1) Location of downgradient air monitor (facing southeast)
- (2) Location of upgradient air monitor (facing northwest)
- (3) Offloading of excavated material (facing west)
- (4) Uncovered concrete surface approx. 1 ft bgs (facing west)
- (5) Placement of demarcation fabric (facing southwest)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Mike Eck	EWMI	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: COVID-19 and steps moving forward; proper PPE when working in and around excavation, slips trips and falls from snow cover.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: Community air monitoring stations were setup upwind and downwind of the excavation.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Excavation activities will continue on 1/19/21.





Photo 1





Photo 2





Photo 3





Photo 4





Photo 5



DAILY CONSTRUCTION REPORT

DATE: <u>1/19/21</u>	ARRIVAL TIME: 06:50	DEPARTURE TIME: 17:30
WEATHER CONDITI	ONS: 34F, mostly cloudy with s	snow, winds 10-20 mph west

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI completed excavation activities, including the 2-foot and 5-foot depth Excavations. Within the 5-foot excavation, a concrete surface was identified at a depth of 5 feet ± 6 inches below ground surface, likely associated with a prior building. The concrete was not removed. Three waste characterization samples were collected from staged excavated material. Two samples were collected from combined excavated materials from the 1-foot and 5-foot excavation areas (Pile A – main pile) and one sample from combined excavated material from the 2-foot area and material removed around the prior sidewall sample S-1243 (Pile B – smaller pile).

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

- (1) Concrete structure identified in 5-foot excavation (facing west)
- (2) Excavated area the raised area is the 2-foot excavation area prior to digging (facing southwest)
- (3) The excavated area including the 5-foot excavation (facing north)
- (4) The staged removed soil Pile A is on the right; Pile B is on the left; (facing northwest)
- (5) The completed excavation area (facing north).

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Mike Eck	EWMI	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Level C PPE when laying fabric and working around staged debris piles, reduced visibility due to falling snow, COVID-19.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: Community air monitoring stations were setup upwind and downwind of the excavation. The data from the air monitoring stations are included with this report. Three waste characterization samples were collected, two from debris Pile A and one



from debris Pile B. Sample WC-A-01-011921 was a composite sample collected from the north and west side walls of Pile A; sample WC-A-02-011921 was a composite sample collected from the south and east sidewalls of Pile A; sample WC-B-01-011921 was a composite sample collected from all side walls of Pile B.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Backfilling of the excavated areas will commence on 1/20/21.



Photo 1





Photo 2





Photo 3



Photo 4





Photo 5



DAILY CONSTRUCTION REPORT

DATE: 1/20/21	ARRIVAL TIME: 06	:45 DEPARTURE TIME:	16:00

WEATHER CONDITIONS: 28F, mostly cloudy with snow, heavy at times, winds 15-30 mph west

SUMMARY OF WORK / MAJOR ACTIVITIES

the excavation. The concrete surface identified approximately 1 foot below ground surface was swept clean of debris before it was covered by the fabric.

Approximately 400 tons crushed stone was delivered to the Site and placed over the demarcation fabric. Additional stone will be placed on 1/21/20

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

- (1) The placement of crushed stone over the demarcation fabric (facing west)
- (2) The concrete surface, swept of debris (facing south)
- (3) The excavated area covered by demarcation fabric (facing southwest)
- (4) The extent of work completed at the end of 1/20/20 (facing southeast)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Josh Harner	EWMI	Eddie Izykowicz	EWMI
Pete Hissim	EWMI	Ryan Bertholf	EWMI

HEALTH & SAFETY TOPICS OR ISSUES: Vehicle traffic for gravel deliveries. Continued use of masks on site, slipping hazards from icy conditions.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Backfilling of the excavated areas will continue 1/21/21.





Photo 1



Photo 2





Photo 3





Photo 4



ON-SITE WOODED AREA EXCAVATION FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: _1/21/21 ARRIVAL TIME:06:45 DEPARTURE TIME: _18:00	_
WEATHER CONDITIONS: 20F, mostly cloudy with snow, winds 5-12 mph southwest	_
SUMMARY OF WORK / MAJOR ACTIVITIES	
EWMI completed the of crushed stone over the entirety of the excavation a	rea.
Crushed stone was compacted by driving heavy equipment over the stone.	
After the placement of crushed stone, topsoil, which was delivered to the si	te
today, was placed over the crushed stone at the excavation and compacted.	1
Erosion control matting was placed over the entirety of the excavation area	
after the area was seeded with grass seed. The chipped wood was covered k	у а
demarcation fabric and soil which was compacted. Erosion fabric will be place	ced

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

- (1) The placement of crushed stone over the entirety of the excavation area (facing southeast)
- (2) Demarcation fabric and soil placed over the thinly spread wood chips (facing east)
- (3) Topsoil being compacted over excavation area (facing northwest)
- (4) Erosion control matting placed over excavation area (facing southwest)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Josh Harner	EWMI	Eddie Izykowicz	EWMI
Pete Hissim	EWMI	Ryan Bertholf	EWMI
David Herman	NYDEC		

HEALTH & SAFETY TOPICS OR ISSUES: Cold weather, hypothermia; vehicle traffic for deliveries: using spotters; restricted occupation of trailer; continued use of masks on site, slipping hazards from icy conditions.

PROBLEMS ENCOUNTERED TODAY: None.

over the covered wood chips on 1/22/20

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.



PLANNED ACTIVITIES FOR NEXT WORKING DAY: Complete seeding and placement of erosion controls and demobilization will continue on 1/22/21.



Photo 1





Photo 2





Photo 3



Photo 4



Environmenta & Rapid Resp			Docum	nent# <u>118</u>	297		
14 Brick Kiln (Northampton, Phone 484-275-6 Fax 484-275-6	PA 18067 5-6900		Job/Pr	oject #116375			
	BE COMPLETED BY	Y GENERATO	R: ,				
COMPANY NAME/	ADDRESS			IN CASE OF EMERGENCY			
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25 E Main St Frankfort, NY					3*** &	0-1039	
QUANTITY	SIZE/TYPE		DESCRIPT	ION	APPE CC	ROVAL DDE	WEIGHT/VOLUME
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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13602

CUSTOMER # 1686 **ENVIRONMENTAL WASTE MINIMIZATION INC** ...RICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID:

168.1

TRAILER#

ORDER#:

DATE: 3/10/2021

TIME IN: 3:05 PM

TIME OUT: 3:19 PM

CSRLF Contaminated Soil to RLF 35.17 tn

Gross: 103,180... Tare: 32,840 Lbs Net: 70,340 Lbs

Scale: 5

Scale: 5

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Route:

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686 ENVIRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID:

168.5

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 2:30 PM

TIME OUT: 2:39 PM

CSRLF Contaminated Soil to RLF 21.78 tn

Gross: 72,740 Lbs Tare: 29,180 Lbs Net: 43,560 Lbs

Scale: 5

Scale: 5

21.78 tn

Route:

Truck:

Profile Number:

CS022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 131

WEIGHTMASTER: PATTY

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID:

168.2

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 2:02 PM

TIME OUT: 2:15 PM

CSRLF Contaminated Soil to RLF 33.09 tn

Gross: 99,520 Lbs Tare: 33,340 Lbs Net: 66,180 Lbs

Scale 5

Scale: 5

33.09 tn

Route:

Truck:

Profile Number:

CS022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 137

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: 168.1

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 1:51 PM

TIME OUT: 2:10 PM

CSRLF Contaminated Soil to RLF

32.4 tn

Gross: 97,160 Libs Tare: 32,360 Lbs Net. 64,800 Lbs

Scale: 5

Scale: 5

32.40 tn

Route:

Truck.

Profile Number:

CS022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 129

WEIGHTMASTER PATTY

Thanks

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686 ENVIRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID:

168.5

TRAILER# ORDER#:

DATE: 3/10/2021

TIME IN: 12:53 PM

TIME OUT: 1:12 PM

CSRLF Contaminated Soil to RLF

32.57 tn

Gross: 98,500 Lbs Tare: 33,360 Lbs Net: 65,140 Lbs

Scale: 5

Scale: 5

32.57 tn

Route:

Truck:

Profile Number:

C5022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 135

WEIGHTMASTER: PATTY

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686 ENVIRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID: 168.4

TRAILER # ORDER#:

DATE: 3/10/2021

TIME IN: 12:31 PM

TIME OUT: 12:44 PM

CSRLF Contaminated Soil to RLF 30.77 tn

Gross: 94,480 Libs Tare: 32,940 Libs Net: 61,540 Libs

Scale: 5

Scale: 5

30.77 tn

Route:

Truck:

Profile Number:

CS022103

Date:

Time.

TICKET AMOUNT

CS/0221-03 132

WEIGHTMASTER: PATTY

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Onelda-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686 ENVIRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID:

168.3

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 12:23 PM

TIME OUT: 12:35 PM

CSRLF Contaminated Soil to RLF 34.92 tn

Gross: 104,940... Tare: 35,100 Lbs Net: 69,840 Lbs Scale: 5

34.92 tn

Scale: 5 Roule:

Truck:

Profile Number:

C5022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 138

WEIGHTMASTER PATTY

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14 Brick Kiln Court Northampton, PA 18067 Phone 484-275-6900 Fax 484-275-6970			Job/Proj	ect# 116375		
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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13602

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID:

168.1

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 12:05 PM

TIME OUT: 12:14 PM

CSRLF Contaminated Soil to RLF 23.13 tn

Gross: 75,720 Lbs Tare: 29,460 Lbs Net: 46,260 Lbs

Scale: 5

Scale: 5

23.13 tn

Route:

Truck:

Profile Number:

CS022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 131

WEIGHTMASTER: PATTY

All Corresponde Environmental & Rapid Responder 14 Brick Kiln C Northampton, Phone 484-275	Court PA 18067	o: on, Inc.	Docum ⁽ Job/Pro		289		
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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: 168.1

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 11:28 AM

TIME OUT: 11:38 AM

CSRLF Contaminated Soil to RLF 34.11 tn

Gross: 101,780... Tare: 33,560 Lbs Net: 68,220 Lbs

Scale: 5

Scale: 5

34.11 tn

Route:

Truck:

Profile Number:

C\$022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 137

WEIGHTMASTER: PATTY

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID:

168.5

TRAILER #

ORDER#:

DATE: 3/10/2021

TIME IN: 10:20 AM

TIME OUT: 10:41 AM

CSRLF Contaminated Soil to RLF 32.35 tn

Gross: 98,100 Lbs Tare: 33,400 Lbs Net: 64,700 Lbs

Scale: 5

Scale: 5

32.35 tn

Route:

Truck:

Profile Number: C\$022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 134

WEIGHTMASTER: PATTY

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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686 ENVIRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID: 168.4

TRAILER #

OFIDER #.

DATE: 3/10/2021

TIME IN: 9:52 AM

TIME OUT: 10:10 AM

CSRLF Contaminated Soil to RLF 34.87 tn

Gross: 103,160... Tare: 33,420 Lbs Net. 69,740 Lbs

34.87 tn Scale: 5 Scale: 5

Truck: Route:

CS022103 Profile Number:

Time: Date:

TICKET AMOUNT

CS/0221-03 132

WEIGHTMASTER: PATTY

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Onelda-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686 ENVRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID: 168.3

TRAILER#

OFDER#

DATE: 3/10/2021

TIME IN: 9:39 AM

TIME OUT: 10:07 AM

CSRLF Contaminated Soil to RLF 34.85 tn

Gross: 102,700... Tare: 33,000 Lbs Net: 69,700 Lbs

Scale: 5

Scale: 5

34.85 tn

Route:

Truck:

Profile Number

CS022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 133

WEIGHTMASTER: PATTY

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Northampton, PA 18067 Phone 484-275-6900 Fax 484-275-6970		Job/Proj	ect#		3	
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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Ulica New York, 13502

CUSTO JER # 1686 ENVIRONMENTAL WASTE MINIMIZATION INC 14 ERICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID: 168.2

TRAILER # ORDER #:

DATE: 3/10/2021

TIME IN: 9:21 AM TIME OUT: 9:42 AM

CSRLF Contaminated Soil to RLF 30.99 tn

Gross: 97,380 Lbs Tare: 35,400 Lbs Net: 61,980 Lbs

Scale: 5 Scale. 5

30.99 tn

Route:

Truck:

Profile Number:

CS022103

Date:

Time

TICKET AMOUNT

CS/0221-03 138

WEIGHTMASTER: PATTY

l Brick Klin (orthamoton	l Waste Minimizati onse, Inc.	to: ion, Inc.	Docume	int# <u>1182</u>	204	
hone 484-27 ax 484-275-6	PA 18067 5-6900		Job/Pro	ject#		
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lamer Hrugh	Fork & Hoe Facilit	lyThe Ames Com	peny inc	24 HOUR EMERGENCY PH	ONE #	
i 3 g. Main S rapidon, NY	ird				877 460-1038	
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						DATE
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7.1				162 McIntyre Road Suite) C	(315)795527
	Lestz Trucking Co	33 535 535 535	45	Frankfort, NY 13340		COMMENTS
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Oneida-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BL.CK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: 168.1

TRAILER # ORDER #:

DATE: 3/10/2021

TIME IN: 9:01 AM

TIME OUT, 9:18 AM

CSRLF Contaminated Soil to RLF 26.15 tn

Gross: 85,600 Lbs Tare: 33,300 Lbs Net: 52,300 Lbs

Scale: 5

Scale, 5

26.15 tn

Route:

Truck

Profile Number. CS022103

Date:

Time:

TICKET AMOUNT

CS/0221-03 . 145

WEIGHTMASTER: PATTY

Environmenta & Rapid Resp 14 Brick Kiln Northampton Phone 484-27 Fax 484-275-6	Court ,PA 18067 5-6900 970		Document # 110275 Job/Project # 11675	
OMPANY NAME	Trat & Hoe Facili		IN CASE OF EMERGENCY OR SPILL CONTACT Regult Responsible 24 HOUR EMERGENCY PHONE #	
253 E. Main S Frankfort, N.Y	Profesional de la companya de la co La companya de la co		877-367-1038 APPROVAL WEIGHT/VOLUME	
QUANTITY	SIZE/TYPE		DESCRIPTION CODE	
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	hat the above named t	waste(s) are	DATE DATE	
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regulations of the	DOT and the EPA.	STATE OF THE STATE	The second secon	
	TO BE COMPLETED	BY HAULE	H/ TRANSPORTER/ PHONE NO	
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Onelda-Herkimer Solid Waste Management Authority 1600 Genesee Street Utica New York, 13502

CUSTOMER# 1886 ENVIRONMENTAL WASTE MINIMIZATION INC 14 BRICK KILN COURT NORTHAMPTON PA, 18067

TRUCK ID:

168.1

TRAILER #

ORDER#:

DATE \$/11/2021

TIME IN: 1:40 PM

TIME OUT: 2:05 PM

CSRLF Contaminated Soil to RLF 43.96 in

Gross 123,520... Tare: 35,600 Lbs Net: 87,920 Lbs

Scale: 5

Scale: 5

43.96 tn

Route:

Truck:

Profile Number:

C8022103

Date

Time:

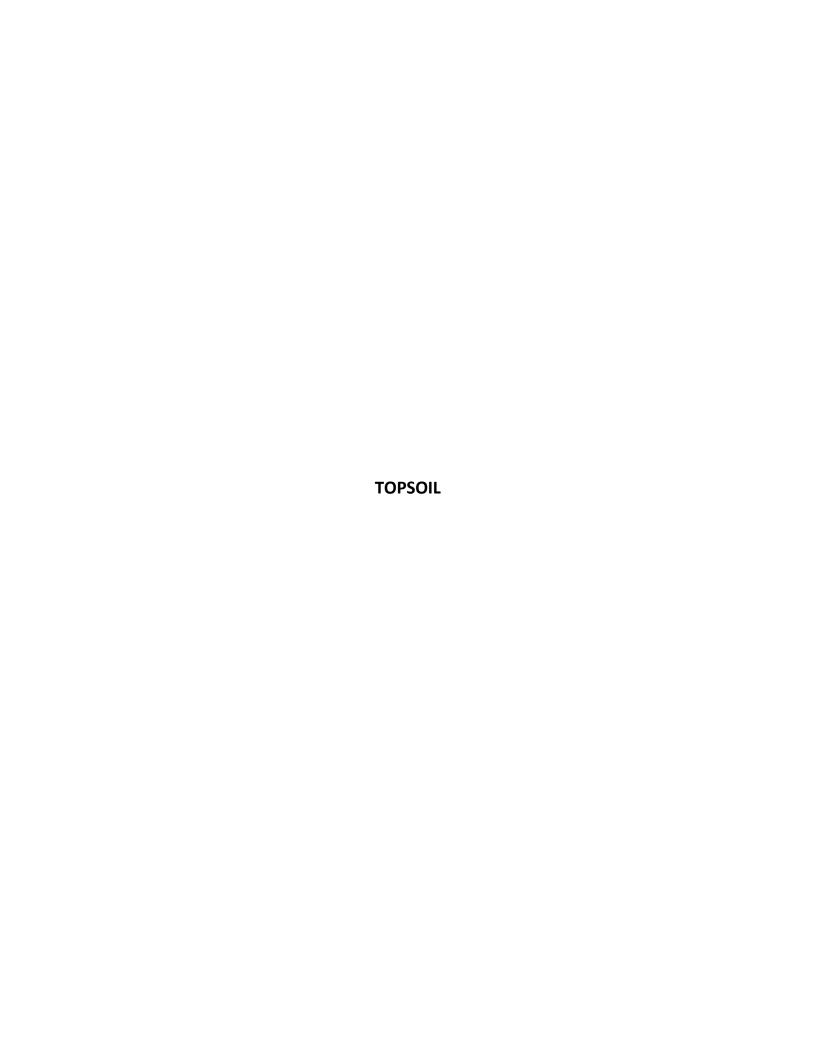
TICKET AMOUNT

CS/0221-03 138

WEIGHTMASTER: PATTY

Date	Load #	Manifest	Tonnage
3/10/2021	1	118297	35.17
3/10/2021	2	118296	21.78
3/10/2021	3	118295	33.09
3/10/2021	4	118294	32.4
3/10/2021	5	118293	32.57
3/10/2021	6	118292	30.77
3/10/2021	7	118291	34.92
3/10/2021	8	118290	23.13
3/10/2021	9	118289	34.11
3/10/2021	10	118288	32.35
3/10/2021	11	118287	34.87
3/10/2021	12	118286	34.85
3/10/2021	13	118285	30.99
3/10/2021	14	118284	26.15
3/10/2021	15	118276	43.96
			481,11





RE: Former Union Fork and Hoe Site - Imported Topsoil Documentation

Bennett, William B (DEC) < william.bennett@dec.ny.gov>

Wed 1/20/2021 2:39 PM

To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>

Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>; Carpenter, Kevin J (DEC)

<kevin.carpenter@dec.ny.gov>



DER-10 Imported Fill Form - UFH Topsoil_1-20-2021 Re-Submit.pdf;

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments.

Dear Glenn,

The attached backfill documentation is acceptable to the Department:

Please note for PFAS, in addition to commercial guidance values the protection of groundwater guidance values apply in the evaluation of backfill. The analytical data provided meets both commercial and protection of groundwater guidance values.

A copy of this e-mail will be placed in the Department's site file.

William Bennett

Professional Engineer 1

New York State Department of Environmental Conservation

625 Broadway, Albany, NY 12233-7014

P: 518-402-9659 | F: 518-402-9679 | william.bennett@dec.ny.gov

www.dec.ny.gov | III | III



Sent: Wednesday, January 20, 2021 11:59 AM

To: Bennett, William B (DEC) < william.bennett@dec.ny.gov>

Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>

Subject: Former Union Fork and Hoe Site - Imported Topsoil Documentation

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Bill,

We received the laboratory results for PFAS and 1,4-dioxane for the topsoil. I have attached the topsoil backfill documentation that includes the PFAS and 1,4-dioxane results and it has been secured to prevent editing. We would like to place the topsoil by the end of this week before we demobilize and come back for the transportation and disposal of the soil.

In addition	, as we discussed,	we are going to backfill	over the	remnants of t	he concrete slab
encountere	ed during the exca	vation activities.			

Please let me know if you have any questions.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



Request to Import/Reuse Fill or Soil

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

SECTION 1 – SITE BACKGROUND
The allowable site use is: Commercial or Industrial Use
Have Ecological Resources been identified? no
Is this soil originating from the site? no
How many cubic yards of soil will be imported/reused? 100-200
If greater than 1000 cubic yards will be imported, enter volume to be imported:
SECTION 2 – MATERIAL OTHER THAN SOIL
Is the material to be imported gravel, rock or stone? no
Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no
Is this virgin material from a permitted mine or quarry? yes
Is this material recycled concrete or brick from a DEC registered processing facility? no
SECTION 3 - SAMPLING
Provide a brief description of the number and type of samples collected in the space below:
2 discrete samples were collected and analyzed for VOCs. 1 composite sample was collected and analyzed for SVOCs, Metals, PCBs, and Pesticides. 1 composite sample was collected and analyzed for PFAS and 1,4-dioxane.
Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.
If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

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

The SVOC sample results were non-detect except for the following results compared to commercial use allowable levels

Benzo(a)anthracene was detected at 0.0761 ppm; allowable level is 1 ppm. Benzo(a)anthracene was detected at 0.1761 ppm; allowable level is 1 ppm. Benzo(b)aprene was detected at 0.13 ppm; allowable level is 1.7 ppm. Benzo(g),hi)perylene was detected at 0.130 ppm; allowable level is 1.7 ppm. Benzo(g),hi)perylene was detected at 0.0647 ppm; allowable level is 500 ppm. Benzo(g),hi)perylene was detected at 0.0421 ppm; allowable level is 1.7 ppm. Chyrsnen was detected at 0.0931 ppm; allowable level is 1.7 ppm. Florunnthne was detected at 0.0425 ppm; allowable level is 500 ppm. Indenot [2,3-ed)pyrene was detected at 0.0631 ppm; allowable level is 5.6 ppm. Phenanthrene was detected at 0.0673 ppm; allowable level is 5.00 ppm. Pyrene was detected at 0.0673 ppm; allowable level is 500 ppm.

The metal sample results were compared to commercial use allowable levels: Arsenic was detected at 14.7 ppm; allowable level is 16 ppm. Barium was detected at 64.7 ppm; allowable level is 400 ppm. Beryllium was detected at 0.484 ppm; allowable level is 40 ppm. Cadmium was detected at 0.833 ppm; allowable level is 4.3 ppm. Chromium, Hexavalent was non-detect. Chromium, Total was detected at 1.40, allowable level is 1500 ppm. Copper was detected at 24 ppm; allowable level is 270 ppm. Copper was detected at 24 ppm; allowable level is 270 ppm.

yannee was non-detect.

.ead was detected at 19.4 ppm; allowable level is 450 ppm.

Aanganese was at 949 ppm; allowable level is 2000 ppm. Manganese was at 949 ppm, and other decrup was non-detect.
Nickel was detected at 15.6 ppm; allowable level is 130 ppm. Selenium was detected at 1.11 ppm; allowable level is 4 ppm. Silter was non-detect.
Zinc was detected at 8.2.0 ppm; allowable level is 2480 ppm.

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

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

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Lietz Trucking Corp bringing fill from their site.

Location where fill was obtained:

Lietz Trucking Corp - 162 McIntyre Road, Suite C, Frankfort, NY 13340

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

DEC Mine # 60497

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

DEC permitted mine and materials are from a virgin source.

Provide a list of supporting documentation included with this request:

Attached analytical data and clean fill certification from Lietz.

Firm



ANALYTICAL REPORT

Lab Number: L2054247

Client: Atlantic Testing Laboratories, Limited

301 St. Anthony Street

Utica, NY 13501

ATTN: Michael D. Stewart Phone: (315) 735-3309

Project Name: FRANKFURT REMEDIATION

Project Number: UT5520 Report Date: 12/15/20

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

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

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



VOLATILES



L2054247

12/15/20

Project Name: FRANKFURT REMEDIATION

L2054247-02

Not Specified

LIETZ PIT STOCKPILE-TOPSOIL

Project Number: UT5520

SAMPLE RESULTS

Date Collected: 12/03/20 14:00

Lab Number:

Report Date:

Date Received: 12/04/20 Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil 1,8260C Analytical Method: Analytical Date: 12/10/20 19:10

Analyst: MV 80% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborou	gh Lab					
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1



Project Name: Lab Number: FRANKFURT REMEDIATION L2054247

Project Number: Report Date: UT5520 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02 Date Collected: 12/03/20 14:00

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20 Field Prep: Not Specified

Sample Location: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - West	borough Lab					
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.80	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02 Date Collected: 12/03/20 14:00

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - West	borough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1	
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1	
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1	
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1	
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1	
1,4-Dioxane	ND		ug/kg	99	44.	1	
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1	
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1	
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1	
Ethyl ether	ND		ug/kg	2.5	0.42	1	
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	95		70-130	
Toluene-d8	85		70-130	
4-Bromofluorobenzene	93		70-130	
Dibromofluoromethane	105		70-130	



L2054247

12/15/20

Project Name: FRANKFURT REMEDIATION

L2054247-03

Not Specified

LIETZ PIT STOCKPILE-TOPSOIL

Project Number: UT5520

SAMPLE RESULTS

Date Collected: 12/03/20 14:08

Date Received: 12/04/20 Field Prep: Not Specified

Lab Number:

Report Date:

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil 1,8260C Analytical Method: Analytical Date: 12/10/20 19:35

Analyst: MV 85% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westbor	ough Lab					
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.19	1
Benzene	ND		ug/kg	0.59	0.19	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03 Date Collected: 12/03/20 14:08

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	estborough Lab					
Trichloroethene	ND		. 0	0.50	0.40	4
	ND ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene			ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.24	1
p/m-Xylene	ND		ug/kg	2.3	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03 Date Collected: 12/03/20 14:08

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westbor	ough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1	
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1	
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1	
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.23	1	
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1	
1,4-Dioxane	ND		ug/kg	94	41.	1	
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1	
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1	
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1	
Ethyl ether	ND		ug/kg	2.3	0.40	1	
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	97	70-130	
Toluene-d8	86	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	105	70-130	

Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/10/20 16:40

Analyst: MKS

arameter	Result	Qualifier Units	RL	MDL	
olatile Organics by GC/MS -	· Westborough Lab	for sample(s):	02-03,05-06	Batch: WG144379	3-5
Methylene chloride	ND	ug/kg	5.0	2.3	
1,1-Dichloroethane	ND	ug/kg	1.0	0.14	
Chloroform	ND	ug/ko	1.5	0.14	
Carbon tetrachloride	ND	ug/ko	1.0	0.23	
1,2-Dichloropropane	ND	ug/ko	1.0	0.12	
Dibromochloromethane	ND	ug/ko	1.0	0.14	
1,1,2-Trichloroethane	ND	ug/ko	1.0	0.27	
Tetrachloroethene	ND	ug/ko	0.50	0.20	
Chlorobenzene	ND	ug/ko	0.50	0.13	
Trichlorofluoromethane	ND	ug/ko	4.0	0.70	
1,2-Dichloroethane	ND	ug/ko	1.0	0.26	
1,1,1-Trichloroethane	ND	ug/ko	0.50	0.17	
Bromodichloromethane	ND	ug/ko	0.50	0.11	
trans-1,3-Dichloropropene	ND	ug/ko	1.0	0.27	
cis-1,3-Dichloropropene	ND	ug/ko	0.50	0.16	
1,3-Dichloropropene, Total	ND	ug/ko	0.50	0.16	
1,1-Dichloropropene	ND	ug/ko	0.50	0.16	
Bromoform	ND	ug/ko	4.0	0.25	
1,1,2,2-Tetrachloroethane	ND	ug/ko	0.50	0.17	
Benzene	ND	ug/ko	0.50	0.17	
Toluene	ND	ug/ko	1.0	0.54	
Ethylbenzene	ND	ug/ko	1.0	0.14	
Chloromethane	ND	ug/ko	4.0	0.93	
Bromomethane	ND	ug/ko	2.0	0.58	
Vinyl chloride	ND	ug/ko	1.0	0.34	
Chloroethane	ND	ug/ko	2.0	0.45	
1,1-Dichloroethene	ND	ug/ko	j 1.0	0.24	
trans-1,2-Dichloroethene	ND	ug/ko	j 1.5	0.14	
Trichloroethene	ND	ug/ko	0.50	0.14	



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/10/20 16:40

Analyst: MKS

arameter	Result	Qualifier Units	RL	MDL	
olatile Organics by GC/MS -	· Westborough Lab	for sample(s):	02-03,05-06	Batch: WG1443793	-5
1,2-Dichlorobenzene	ND	ug/ko	2.0	0.14	
1,3-Dichlorobenzene	ND	ug/ko	2.0	0.15	
1,4-Dichlorobenzene	ND	ug/kg	2.0	0.17	
Methyl tert butyl ether	ND	ug/ko	2.0	0.20	
p/m-Xylene	ND	ug/ko	2.0	0.56	
o-Xylene	ND	ug/ko	1.0	0.29	
Xylenes, Total	ND	ug/ko	1.0	0.29	
cis-1,2-Dichloroethene	ND	ug/ko	1.0	0.18	
1,2-Dichloroethene, Total	ND	ug/ko	1.0	0.14	
Dibromomethane	ND	ug/ko	2.0	0.24	
Styrene	ND	ug/ko	1.0	0.20	
Dichlorodifluoromethane	ND	ug/kզ	j 10	0.92	
Acetone	ND	ug/ko	j 10	4.8	
Carbon disulfide	ND	ug/ko	j 10	4.6	
2-Butanone	ND	ug/ko	j 10	2.2	
Vinyl acetate	ND	ug/kg	j 10	2.2	
4-Methyl-2-pentanone	ND	ug/kg	j 10	1.3	
1,2,3-Trichloropropane	ND	ug/ko	2.0	0.13	
2-Hexanone	ND	ug/ko	j 10	1.2	
Bromochloromethane	ND	ug/ko	2.0	0.20	
2,2-Dichloropropane	ND	ug/ko	2.0	0.20	
1,2-Dibromoethane	ND	ug/ko	1.0	0.28	
1,3-Dichloropropane	ND	ug/ko	2.0	0.17	
1,1,1,2-Tetrachloroethane	ND	ug/ko	0.50	0.13	
Bromobenzene	ND	ug/ko	2.0	0.14	
n-Butylbenzene	ND	ug/ko	1.0	0.17	
sec-Butylbenzene	ND	ug/ko	1.0	0.15	
tert-Butylbenzene	ND	ug/ko	2.0	0.12	
o-Chlorotoluene	ND	ug/ko	2.0	0.19	



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/10/20 16:40

Analyst: MKS

Parameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS - We	stborough Lab	for sample(s):	02-03,05-06	Batch: WG1443793-5
p-Chlorotoluene	ND	ug/ko	g 2.0	0.11
1,2-Dibromo-3-chloropropane	ND	ug/ko	g 3.0	1.0
Hexachlorobutadiene	ND	ug/kç	9 4.0	0.17
Isopropylbenzene	ND	ug/kç	g 1.0	0.11
p-Isopropyltoluene	ND	ug/kç	g 1.0	0.11
Naphthalene	ND	ug/kç	9 4.0	0.65
Acrylonitrile	ND	ug/kç	9 4.0	1.2
n-Propylbenzene	ND	ug/kç	g 1.0	0.17
1,2,3-Trichlorobenzene	ND	ug/k	g 2.0	0.32
1,2,4-Trichlorobenzene	ND	ug/k	g 2.0	0.27
1,3,5-Trimethylbenzene	ND	ug/k	g 2.0	0.19
1,2,4-Trimethylbenzene	ND	ug/k	g 2.0	0.33
1,4-Dioxane	ND	ug/kç	g 80	35.
p-Diethylbenzene	ND	ug/kç	g 2.0	0.18
p-Ethyltoluene	ND	ug/kç	g 2.0	0.38
1,2,4,5-Tetramethylbenzene	ND	ug/kç	2.0	0.19
Ethyl ether	ND	ug/k	g 2.0	0.34
trans-1,4-Dichloro-2-butene	ND	ug/k	5.0	1.4

	Acceptance
%Recovery Qu	alifier Criteria
85	70-130
88	70-130
95	70-130
94	70-130
	85 88 95



Lab Control Sample Analysis Batch Quality Control

L2054247 Lab Number:

> UT5520 Project Number:

FRANKFURT REMEDIATION

Project Name:

12/15/20 Report Date:

LCSD%RecoveryParameter%RecoveryQual%RecoveryRIVolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG1443793-3 WG1443793-4	LCS %Recovery Qual Lab Associated sample(ia/ ie(s): 0;	LCSD %Recovery 2-03,05-06 Batch:	%Recove Qual Limits :h: WG1443793-3 W	%Recovery Limits 3793-3 WG14437	RPD 93-4	RPD Qual Limits -4	RPD Limits
	96		06	-02	70-130	9		30
	94		88	-02	70-130	7		30

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06	Associated sample(s): 0	12-03,05-06	Satch: WG1443	Batch: WG1443793-3 WG1443793-4	.93-4	
Methylene chloride	96	06		70-130	9	30
1,1-Dichloroethane	94	88		70-130	7	30
Chloroform	95	88		70-130	7	30
Carbon tetrachloride	103	93		70-130	10	30
1,2-Dichloropropane	94	88		70-130	7	30
Dibromochloromethane	84	79		70-130	9	30
1,1,2-Trichloroethane	80	77		70-130	4	30
Tetrachloroethene	107	26		70-130	10	30
Chlorobenzene	91	85		70-130	7	30
Trichlorofluoromethane	88	80		70-139	10	30
1,2-Dichloroethane	68	85		70-130	co.	30
1,1,1-Trichloroethane	104	96		70-130	O	30
Bromodichloromethane	86	94		70-130	4	30
trans-1,3-Dichloropropene	84	80		70-130	S	30
cis-1,3-Dichloropropene	88	84		70-130	2	30
1,1-Dichloropropene	104	93		70-130	11	30
Bromoform	87	85		70-130	2	30
1,1,2,2-Tetrachloroethane	75	72		70-130	4	30
Benzene	66	95		70-130	7	30
Toluene	85	62		70-130	7	30
Ethylbenzene	87	80		70-130	ω	30
Chloromethane	86	77		52-130	11	30
Bromomethane	58	54	Ø	57-147	7	30



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

	SO7		TCSD		%Recovery	1		RPD	
arameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	

Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s):	ab Associated s		02-03,05-06 Bat	ch: WG144	Batch: WG1443793-3 WG1443793-4	793-4		
Vinyl chloride	61	σ	54	Ø	67-130	12		30
Chloroethane	62		57		50-151	80		30
1,1-Dichloroethene	106		94		65-135	12		30
trans-1,2-Dichloroethene	104		96		70-130	8		30
Trichloroethene	108		86		70-130	10		30
1,2-Dichlorobenzene	98		81		70-130	9		30
1,3-Dichlorobenzene	88		82		70-130	7		30
1,4-Dichlorobenzene	98		81		70-130	9		30
Methyl tert butyl ether	66		96		66-130	က		30
p/m-Xylene	94		87		70-130	∞		30
o-Xylene	94		88		70-130	7		30
cis-1,2-Dichloroethene	104		96		70-130	œ		30
Dibromomethane	26		92		70-130	2		30
Styrene	84		78		70-130	7		30
Dichlorodifluoromethane	72		64		30-146	12		30
Acetone	06		81		54-140	11		30
Carbon disulfide	06		80		59-130	12		30
2-Butanone	92		87		70-130	9		30
Vinyl acetate	96		92		70-130	4		30
4-Methyl-2-pentanone	74		70		70-130	9		30
1,2,3-Trichloropropane	70		89		68-130	က		30
2-Hexanone	78		75		70-130	4		30
Bromochloromethane	108		103		70-130	5		30



L2054247 Lab Number:

12/15/20

Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

DDD % **D**o 10.50 001

Parameter	LCS %Recovery	Oual	LCSD %Recovery	Oual	%Recovery Limits	RPD	RPD Qual Limits	
							Ш	
Volatile Organics by GC/MS - Westborough Lab Associated sampl	Lab Associated s	ample(s):	le(s): 02-03,05-06 Bat	ch: WG144	Batch: WG1443793-3 WG1443793-4	793-4		
2,2-Dichloropropane	103		94		70-130	တ	30	
1,2-Dibromoethane	06		85		70-130	9	30	
1,3-Dichloropropane	62		92		69-130	4	30	
1,1,1,2-Tetrachloroethane	87		81		70-130	7	30	
Bromobenzene	68		85		70-130	2	30	
n-Butylbenzene	81		73		70-130	10	30	
sec-Butylbenzene	86		78		70-130	10	30	
tert-Butylbenzene	91		83		70-130	o	30	
o-Chlorotoluene	62		74		70-130	7	30	
p-Chlorotoluene	81		92		70-130	9	30	
1,2-Dibromo-3-chloropropane	84		79		68-130	9	30	
Hexachlorobutadiene	101		93		67-130	∞	30	
Isopropylbenzene	86		79		70-130	∞	30	
p-Isopropyltoluene	693		85		70-130	o	30	
Naphthalene	96		91		70-130	2	30	
Acrylonitrile	106		100		70-130	9	30	
n-Propylbenzene	80		73		70-130	6	30	
1,2,3-Trichlorobenzene	66		93		70-130	9	30	
1,2,4-Trichlorobenzene	26		92		70-130	2	30	
1,3,5-Trimethylbenzene	87		80		70-130	∞	30	
1,2,4-Trimethylbenzene	88		82		70-130	7	30	
1,4-Dioxane	136		118		65-136	14	30	
p-Diethylbenzene	94		85		70-130	10	30	



L2054247 Lab Number:

FRANKFURT REMEDIATION UT5520 Project Number:

Project Name:

12/15/20 Report Date:

RPD	Limits
	Qual
	RPD
%Recovery	Limits
	Qual
TCSD	%Recovery
	Qual
SO7	%Recovery
	Parameter

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG1443793-3 WG1443793-4

30	30	30	30
∞	7	5	9
70-130	70-130	67-130	70-130
08	06	96	77
87	97	100	82
p-Ethyltoluene	1,2,4,5-Tetramethylbenzene	Ethyl ether	trans-1,4-Dichloro-2-butene

Surrogate	LCS %Recovery	LCSD Qual %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88	87		70-130
Toluene-d8	68	88		70-130
4-Bromofluorobenzene	94	95		70-130
Dibromofluoromethane	66	66		70-130



SEMIVOLATILES



12/03/20 13:45

Date Collected:

Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

L2054247-01

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Lab ID:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270D Extraction Date: 12/10/20 14:02

Analytical Date: 12/11/20 00:46

Analyst: IM
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westk	orough Lab					
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	190		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westbord	ugh Lab					
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	76	J	ug/kg	120	23.	1
Benzo(a)pyrene	100	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	130		ug/kg	120	34.	1
Benzo(k)fluoranthene	42	J	ug/kg	120	32.	1
Chrysene	93	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	66	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	97	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	63	J	ug/kg	160	28.	1
Pyrene	160		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Acceptance Qualifier Criteria
2-Fluorophenol	51	25-120
Phenol-d6	51	10-120
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	57	30-120
2,4,6-Tribromophenol	79	10-136
4-Terphenyl-d14	57	18-120



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3540C
Analytical Date: 12/10/20 16:12 Extraction Date: 12/09/20 14:20

Analyst: JG

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS	G - Westborough	Lab for s	ample(s):	04 Batch:	WG1442922-1
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3540C
Analytical Date: 12/10/20 16:12 Extraction Date: 12/09/20 14:20

Analyst: JG

Parameter	Result	Qualifier	Units	RL	MDL	
Semivolatile Organics by GC/MS	- Westboroug	h Lab for s	ample(s):	04 Batch	: WG1442922-1	
Dimethyl phthalate	ND		ug/kg	160	34.	
Benzo(a)anthracene	ND		ug/kg	98	18.	
Benzo(a)pyrene	ND		ug/kg	130	40.	
Benzo(b)fluoranthene	ND		ug/kg	98	27.	
Benzo(k)fluoranthene	ND		ug/kg	98	26.	
Chrysene	ND		ug/kg	98	17.	
Acenaphthylene	ND		ug/kg	130	25.	
Anthracene	ND		ug/kg	98	32.	
Benzo(ghi)perylene	ND		ug/kg	130	19.	
Fluorene	ND		ug/kg	160	16.	
Phenanthrene	ND		ug/kg	98	20.	
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.	
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	
Pyrene	ND		ug/kg	98	16.	
Biphenyl	ND		ug/kg	370	38.	
4-Chloroaniline	ND		ug/kg	160	30.	
2-Nitroaniline	ND		ug/kg	160	31.	
3-Nitroaniline	ND		ug/kg	160	31.	
4-Nitroaniline	ND		ug/kg	160	68.	
Dibenzofuran	ND		ug/kg	160	15.	
2-Methylnaphthalene	ND		ug/kg	200	20.	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.	
Acetophenone	ND		ug/kg	160	20.	
Benzyl Alcohol	ND		ug/kg	160	50.	
Carbazole	ND		ug/kg	160	16.	



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3540C
Analytical Date: 12/10/20 16:12 Extraction Date: 12/09/20 14:20

Analyst: JG

Parameter Result Qualifier Units RL MDL

Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1442922-1

		Acceptance
Surrogate	%Recovery Qual	ifier Criteria
2-Fluorophenol	63	25-120
Phenol-d6	66	10-120
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	69	30-120
2,4,6-Tribromophenol	55	10-136
4-Terphenyl-d14	70	18-120



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546
Analytical Date: 12/10/20 22:53 Extraction Date: 12/10/20 14:02

Analyst: IM

arameter	Result	Qualifier	Units	F	RL	MDL	
emivolatile Organics by GC/MS	S - Westborough	n Lab for sa	ample(s):	01	Batch:	WG1443	456-1
Acenaphthene	ND		ug/kg	1	30	17.	
1,2,4-Trichlorobenzene	ND		ug/kg	1	60	19.	
Hexachlorobenzene	ND		ug/kg	(99	18.	
Bis(2-chloroethyl)ether	ND		ug/kg	1	50	22.	
2-Chloronaphthalene	ND		ug/kg	1	60	16.	
1,2-Dichlorobenzene	ND		ug/kg	1	60	30.	
1,3-Dichlorobenzene	ND		ug/kg	1	60	28.	
1,4-Dichlorobenzene	ND		ug/kg	1	60	29.	
3,3'-Dichlorobenzidine	ND		ug/kg	1	60	44.	
2,4-Dinitrotoluene	ND		ug/kg	1	60	33.	
2,6-Dinitrotoluene	ND		ug/kg	1	60	28.	
Fluoranthene	ND		ug/kg	ę	99	19.	
4-Chlorophenyl phenyl ether	ND		ug/kg	1	60	18.	
4-Bromophenyl phenyl ether	ND		ug/kg	1	60	25.	
Bis(2-chloroisopropyl)ether	ND		ug/kg	2	00	28.	
Bis(2-chloroethoxy)methane	ND		ug/kg	1	80	17.	
Hexachlorobutadiene	ND		ug/kg	1	60	24.	
Hexachlorocyclopentadiene	ND		ug/kg	4	70	150	
Hexachloroethane	ND		ug/kg	1	30	27.	
Isophorone	ND		ug/kg	1	50	22.	
Naphthalene	ND		ug/kg	1	60	20.	
Nitrobenzene	ND		ug/kg	1	50	24.	
NDPA/DPA	ND		ug/kg	1	30	19.	
n-Nitrosodi-n-propylamine	ND		ug/kg	1	60	26.	
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1	60	57.	
Butyl benzyl phthalate	ND		ug/kg	1	60	42.	
Di-n-butylphthalate	ND		ug/kg	1	60	31.	
Di-n-octylphthalate	ND		ug/kg	1	60	56.	
Diethyl phthalate	ND		ug/kg	1	60	15.	



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546
Analytical Date: 12/10/20 22:53 Extraction Date: 12/10/20 14:02

Analyst: IM

arameter	Result (Qualifier Units	RL	MDL
emivolatile Organics by GC/MS	- Westborough I	Lab for sample(s):	01 Batch:	WG1443456-1
Dimethyl phthalate	ND	ug/kg	160	35.
Benzo(a)anthracene	ND	ug/kg	99	19.
Benzo(a)pyrene	ND	ug/kg	130	40.
Benzo(b)fluoranthene	ND	ug/kg	99	28.
Benzo(k)fluoranthene	ND	ug/kg	99	26.
Chrysene	ND	ug/kg	99	17.
Acenaphthylene	ND	ug/kg	130	26.
Anthracene	ND	ug/kg	99	32.
Benzo(ghi)perylene	ND	ug/kg	130	19.
Fluorene	ND	ug/kg	160	16.
Phenanthrene	ND	ug/kg	99	20.
Dibenzo(a,h)anthracene	ND	ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND	ug/kg	130	23.
Pyrene	ND	ug/kg	99	16.
Biphenyl	ND	ug/kg	380	38.
4-Chloroaniline	ND	ug/kg	160	30.
2-Nitroaniline	ND	ug/kg	160	32.
3-Nitroaniline	ND	ug/kg	160	31.
4-Nitroaniline	ND	ug/kg	160	68.
Dibenzofuran	ND	ug/kg	160	16.
2-Methylnaphthalene	ND	ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	160	17.
Acetophenone	ND	ug/kg	160	20.
Benzyl Alcohol	ND	ug/kg	160	51.
Carbazole	ND	ug/kg	160	16.



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546

Analytical Date: 12/10/20 22:53 Extraction Date: 12/10/20 14:02

Analyst: IM

Parameter Result Qualifier Units RL MDL

Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1443456-1

Surrogate	%Recovery Qualifi	Acceptance er Criteria
2-Fluorophenol	55	25-120
Phenol-d6	58	10-120
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	62	30-120
2,4,6-Tribromophenol	73	10-136
4-Terphenyl-d14	70	18-120



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

RPD	Limits	
	Qual	
	RPD	
%Recovery	Limits	
	Qual	
TCSD	%Recovery	
	Qual	
SO7	%Recovery	
	arameter	

Par Ser

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s):	h Lab Associated sample(s)	04	Batch: WG1442922-2 WG1442922-3		
Acenaphthene	62	64	31-137	က	90
1,2,4-Trichlorobenzene	99	29	38-107	2	50
Hexachlorobenzene	99	99	40-140	0	50
Bis(2-chloroethyl)ether	59	09	40-140	2	50
2-Chloronaphthalene	65	99	40-140	2	50
1,2-Dichlorobenzene	61	62	40-140	2	50
1,3-Dichlorobenzene	59	61	40-140	က	50
1,4-Dichlorobenzene	09	61	28-104	2	50
3,3'-Dichlorobenzidine	48	55	40-140	14	50
2,4-Dinitrotoluene	29	29	40-132	0	50
2,6-Dinitrotoluene	89	69	40-140	_	50
Fluoranthene	99	29	40-140	2	50
4-Chlorophenyl phenyl ether	99	99	40-140	0	50
4-Bromophenyl phenyl ether	99	99	40-140	0	50
Bis(2-chloroisopropyl)ether	55	99	40-140	2	50
Bis(2-chloroethoxy)methane	61	63	40-117	က	50
Hexachlorobutadiene	99	99	40-140	0	50
Hexachlorocyclopentadiene	29	89	40-140	1	90
Hexachloroethane	58	28	40-140	0	90
Isophorone	58	61	40-140	5	50
Naphthalene	64	65	40-140	2	90
Nitrobenzene	61	64	40-140	2	90
NDPA/DPA	99	64	36-157	က	50



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	% Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04	ugh Lab Associa	ited sample(s):		WG1442922-2	Batch: WG1442922-2 WG1442922-3			
		•						
n-Nitrosodi-n-propylamine	59		61		32-121	3		20
Bis(2-ethylhexyl)phthalate	99		89		40-140	က		20
Butyl benzyl phthalate	89		89		40-140	0		50
Di-n-butylphthalate	64		64		40-140	0		50
Di-n-octy/phthalate	68		69		40-140	_		50
Diethyl phthalate	63		63		40-140	0		50
Dimethyl phthalate	99		29		40-140	2		50
Benzo(a)anthracene	62		63		40-140	2		50
Benzo(a)pyrene	70		71		40-140	_		50
Benzo(b)fluoranthene	29		29		40-140	0		50
Benzo(k)fluoranthene	99		89		40-140	က		50
Chrysene	64		65		40-140	2		20
Acenaphthylene	64		99		40-140	က		20
Anthracene	64		99		40-140	က		50
Benzo(ghi)perylene	29		29		40-140	0		20
Fluorene	64		99		40-140	က		20
Phenanthrene	99		29		40-140	2		20
Dibenzo(a,h)anthracene	99		29		40-140	2		20
Indeno(1,2,3-cd)pyrene	99		99		40-140	0		20
Pyrene	99		99		35-142	0		20
Biphenyl	70		71		37-127	_		20
4-Chloroaniline	40		45		40-140	12		20
2-Nitroaniline	69		70		47-134	-		20



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

RPD Limits Qual RPD%Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery Parameter

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1442922-2 WG1442922-3

			,		•
3-Nitroaniline	54	26	26-129	4	90
4-Nitroaniline	65	64	41-125	2	20
Dibenzofuran	64	65	40-140	2	20
2-Methylnaphthalene	99	29	40-140	3	90
1,2,4,5-Tetrachlorobenzene	72	72	40-117	0	20
Acetophenone	29	69	14-144		20
Benzyl Alcohol	65	89	40-140	2	20
Carbazole	64	65	54-128	7	50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		89		25-120
Phenol-d6	99		69		10-120
Nitrobenzene-d5	62		64		23-120
2-Fluorobiphenyl	89		69		30-120
2,4,6-Tribromophenol	89		89		10-136
4-Terphenyl-d14	89		69		18-120



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION

UT5520

Project Number: Project Name:

	SO7		TCSD		%Recovery			RPD
arameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits

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Semivolatile Organics by GC/MS - Westborough Lab Associated sam					
	ıple(s):	01 Batch: W	Batch: WG1443456-2 WG1443456-3	13456-3	
Acenaphthene	61	62	31-137	2	20
1,2,4-Trichlorobenzene	29	63	38-107	7	50
Hexachlorobenzene	75	80	40-140	9	50
Bis(2-chloroethyl)ether	53	22	40-140	2	50
2-Chloronaphthalene	61	64	40-140	2	50
1,2-Dichlorobenzene	25	62	40-140	80	50
1,3-Dichlorobenzene	55	09	40-140	O	50
1,4-Dichlorobenzene	56	61	28-104	O	50
3,3'-Dichlorobenzidine	48	47	40-140	2	50
2,4-Dinitrotoluene	81	82	40-132	~	50
2,6-Dinitrotoluene	92	62	40-140	4	50
Fluoranthene	99	89	40-140	က	50
4-Chlorophenyl phenyl ether	89	69	40-140	~	50
4-Bromophenyl phenyl ether	92	78	40-140	က	50
Bis(2-chloroisopropyl)ether	52	55	40-140	9	50
Bis(2-chloroethoxy)methane	22	29	40-117	က	50
Hexachlorobutadiene	64	69	40-140	∞	50
Hexachlorocyclopentadiene	44	50	40-140	13	50
Hexachloroethane	54	29	40-140	6	20
Isophorone	53	22	40-140	7	20
Naphthalene	09	64	40-140	9	20
Nitrobenzene	26	59	40-140	2	20
NDPA/DPA	99	99	36-157	0	20



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

RPD	Limits	
	Qual	
	RPD	
"Recovery	Limits	
	Qual	
TCSD	%Recovery	
	Qual	
SO7	%Recovery	
	Parameter	

Se

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s):	igh Lab Associated sample(s):	01 Batch:	Batch: WG1443456-2 WG1443456-3		
n-Nitrosodi-n-propylamine	53	22	32-121	4	50
Bis(2-ethylhexyl)phthalate	26	29	40-140	Q	50
Butyl benzyl phthalate	64	99	40-140	က	50
Di-n-butylphthalate	63	63	40-140	0	50
Di-n-octylphthalate	53	26	40-140	9	50
Diethyl phthalate	64	99	40-140	2	50
Dimethyl phthalate	63	99	40-140	O.	50
Benzo(a)anthracene	28	09	40-140	3	50
Benzo(a)pyrene	89	89	40-140	0	50
Benzo(b)fluoranthene	64	64	40-140	0	50
Benzo(k)fluoranthene	99	29	40-140	2	50
Chrysene	62	62	40-140	0	50
Acenaphthylene	62	64	40-140	8	50
Anthracene	62	64	40-140	က	50
Benzo(ghi)perylene	64	63	40-140	2	50
Fluorene	92	65	40-140	0	50
Phenanthrene	62	64	40-140	က	50
Dibenzo(a,h)anthracene	62	63	40-140	2	50
Indeno(1,2,3-cd)pyrene	09	09	40-140	0	50
Pyrene	99	29	35-142	2	50
Biphenyl	63	65	37-127	က	50
4-Chloroaniline	47	48	40-140	2	50
2-Nitroaniline	73	75	47-134	ဇ	50



L2054247 Lab Number:

> UT5520 Project Number:

FRANKFURT REMEDIATION

Project Name:

12/15/20 Report Date:

RPD Limits

Qual RPDSemivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1443456-2 WG1443456-3 %Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery Parameter

3-Nitroaniline	64	63	26-129	2	20
4-Nitroaniline	70	72	41-125	က	50
Dibenzofuran	63	64	40-140	2	50
2-Methylnaphthalene	61	64	40-140	5	50
1,2,4,5-Tetrachlorobenzene	89	72	40-117	တ	50
Acetophenone	59	63	14-144	7	50
Benzyl Alcohol	56	58	40-140	4	50
Carbazole	61	63	54-128	က	50

Surrogate 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorophipenyl	LCS %Recovery Qual 56 61 58	LCSD %Recovery 60 62 61 61	Qual	Acceptance Criteria 25-120 10-120 23-120 30-120	
2,4,6-Tribromophenol 4-Terphenyl-d14	87 71	89 72		10-136 18-120	



PCBS



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 12/10/20 02:58
Analytical Date: 12/10/20 22:38 Cleanup Method: EPA 3665A

Analyst: JAW Cleanup Date: 12/10/20
Percent Solids: 81% Cleanup Method: EPA 3660B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	41.0	3.64	1	А
Aroclor 1221	ND		ug/kg	41.0	4.10	1	Α
Aroclor 1232	ND		ug/kg	41.0	8.68	1	Α
Aroclor 1242	ND		ug/kg	41.0	5.52	1	Α
Aroclor 1248	ND		ug/kg	41.0	6.14	1	Α
Aroclor 1254	ND		ug/kg	41.0	4.48	1	Α
Aroclor 1260	ND		ug/kg	41.0	7.57	1	Α
Aroclor 1262	ND		ug/kg	41.0	5.20	1	Α
Aroclor 1268	ND		ug/kg	41.0	4.24	1	Α
PCBs, Total	ND		ug/kg	41.0	3.64	1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	Α
Decachlorobiphenyl	41		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	43		30-150	В
Decachlorobiphenyl	41		30-150	В



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 12/11/20 09:57

Analyst: CW

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 11:05
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/20
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/20

Parameter	Result	Qualifier Units	RL	MDL	Column
Polychlorinated Biphenyls by GC	- Westborough	Lab for sample(s):	04 Batch:	WG1442779) - 1
Aroclor 1016	ND	ug/kg	87.9	7.80	А
Aroclor 1221	ND	ug/kg	87.9	8.80	Α
Aroclor 1232	ND	ug/kg	87.9	18.6	А
Aroclor 1242	ND	ug/kg	87.9	11.8	А
Aroclor 1248	ND	ug/kg	87.9	13.2	А
Aroclor 1254	ND	ug/kg	87.9	9.61	А
Aroclor 1260	ND	ug/kg	87.9	16.2	Α
Aroclor 1262	ND	ug/kg	87.9	11.2	Α
Aroclor 1268	ND	ug/kg	87.9	9.10	Α
PCBs, Total	ND	ug/kg	87.9	7.80	Α

		Acceptano	e
Surrogate	%Recovery Qualif	ier Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67	30-150	Α
Decachlorobiphenyl	61	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	71	30-150	В
Decachlorobiphenyl	72	30-150	В



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 12/10/20 20:41

Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/10/20 02:58
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/20
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier Units	RL	MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	Lab for sample(s):	01 Batch:	WG1443161	1-1
Aroclor 1016	ND	ug/kg	32.3	2.87	А
Aroclor 1221	ND	ug/kg	32.3	3.24	Α
Aroclor 1232	ND	ug/kg	32.3	6.85	Α
Aroclor 1242	ND	ug/kg	32.3	4.35	Α
Aroclor 1248	ND	ug/kg	32.3	4.84	Α
Aroclor 1254	ND	ug/kg	32.3	3.53	Α
Aroclor 1260	ND	ug/kg	32.3	5.97	Α
Aroclor 1262	ND	ug/kg	32.3	4.10	Α
Aroclor 1268	ND	ug/kg	32.3	3.35	Α
PCBs, Total	ND	ug/kg	32.3	2.87	Α

		A	Acceptanc	e
Surrogate	%Recovery 0	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	Α
Decachlorobiphenyl	96		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	83		30-150	В
Decachlorobiphenyl	108		30-150	В



L2054247 Lab Number:

12/15/20

Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

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Limits		
Qual		
RPD		
Limits		
Qual		
%Recovery		
Qual		
%Recovery		
ırameter		
	ry Qual %Recovery Qual Limits RPD (ry Qual %Recovery Qual Limits RPD Qual Limits

Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1442779-2 WG1442779-3

50 A	50 A
12	13
40-140	40-140
64	56
72	64
Aroclor 1016	Aroclor 1260

Surrogate	LCS %Recovery	Qual %	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		28		30-150	⋖
Decachlorobiphenyl	55		52		30-150	∢
2,4,5,6-Tetrachloro-m-xylene	7.1		61		30-150	М
Decachlorobiphenyl	69		09		30-150	В



L2054247 Lab Number:

12/15/20 Report Date: FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

Parameter	LCS %Recoverv	Qual	LCSD %Recovery	, Oual	%Recovery Limits	RPD	Onal	RPD Limits Column	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated	ugh Lab Associa	ated sample(s):	01 Batch	sample(s): 01 Batch: WG1443161-2 WG1443161-3	WG1443161-3				
Aroclor 1016	86		81		40-140	9		20	۷
Aroclor 1260	87		85		40-140	2		20	∢

Surrogate %R	LCS 6Recovery	LCSD Qual %Recovery	D ıry Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79	77		30-150	⋖
Decachlorobiphenyl	94	93		30-150	4
2,4,5,6-Tetrachloro-m-xylene	81	78		30-150	В
Decachlorobiphenyl	101	86		30-150	В



PESTICIDES



Lab Number: **Project Name:** FRANKFURT REMEDIATION L2054247

Project Number: Report Date: UT5520 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20 Client ID: Sample Location: Field Prep: Not Specified Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 12/10/20 01:51 Analytical Method: 1,8081B

Cleanup Method: EPA 3620B Analytical Date: 12/11/20 11:25 Cleanup Date: 12/11/20 JJW

Analyst: 81% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - W	estborough Lab						
Delta-BHC	ND		ug/kg	1.87	0.366	1	Α
Lindane	ND		ug/kg	0.780	0.349	1	Α
Alpha-BHC	ND		ug/kg	0.780	0.221	1	Α
Beta-BHC	ND		ug/kg	1.87	0.710	1	Α
Heptachlor	ND		ug/kg	0.936	0.420	1	Α
Aldrin	ND		ug/kg	1.87	0.659	1	Α
Heptachlor epoxide	ND		ug/kg	3.51	1.05	1	Α
Endrin	ND		ug/kg	0.780	0.320	1	Α
Endrin aldehyde	ND		ug/kg	2.34	0.819	1	Α
Endrin ketone	ND		ug/kg	1.87	0.482	1	Α
Dieldrin	ND		ug/kg	1.17	0.585	1	Α
4,4'-DDE	ND		ug/kg	1.87	0.433	1	Α
4,4'-DDD	ND		ug/kg	1.87	0.668	1	Α
4,4'-DDT	ND		ug/kg	3.51	1.50	1	Α
Endosulfan I	ND		ug/kg	1.87	0.442	1	Α
Endosulfan II	ND		ug/kg	1.87	0.625	1	Α
Endosulfan sulfate	ND		ug/kg	0.780	0.371	1	Α
Methoxychlor	ND		ug/kg	3.51	1.09	1	Α
Toxaphene	ND		ug/kg	35.1	9.83	1	Α
cis-Chlordane	ND		ug/kg	2.34	0.652	1	Α
trans-Chlordane	ND		ug/kg	2.34	0.618	1	Α
Chlordane	ND		ug/kg	15.6	6.20	1	Α



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	Α
Decachlorobiphenyl	77		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	69		30-150	В
Decachlorobiphenyl	111		30-150	В



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 12/10/20 17:20

Analyst: JJW

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 00:45
Cleanup Method: EPA 3620B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier	Units	RL		MDL	Column
Organochlorine Pesticides by G	C - Westboroug	gh Lab for s	ample(s):	04 Ba	tch:	WG1442892	2-1
Delta-BHC	ND		ug/kg	4.07		0.798	Α
Lindane	ND		ug/kg	1.70		0.759	Α
Alpha-BHC	ND		ug/kg	1.70		0.482	Α
Beta-BHC	ND		ug/kg	4.07		1.54	Α
Heptachlor	ND		ug/kg	2.04		0.913	Α
Aldrin	ND		ug/kg	4.07		1.43	Α
Heptachlor epoxide	ND		ug/kg	7.64		2.29	Α
Endrin	ND		ug/kg	1.70		0.696	Α
Endrin aldehyde	ND		ug/kg	5.09		1.78	Α
Endrin ketone	ND		ug/kg	4.07		1.05	Α
Dieldrin	ND		ug/kg	2.55		1.27	Α
4,4'-DDE	ND		ug/kg	4.07		0.942	Α
4,4'-DDD	ND		ug/kg	4.07		1.45	Α
4,4'-DDT	ND		ug/kg	7.64		3.28	Α
Endosulfan I	ND		ug/kg	4.07		0.963	Α
Endosulfan II	ND		ug/kg	4.07		1.36	Α
Endosulfan sulfate	ND		ug/kg	1.70		0.808	Α
Methoxychlor	ND		ug/kg	7.64		2.38	Α
Toxaphene	ND		ug/kg	76.4		21.4	Α
cis-Chlordane	ND		ug/kg	5.09		1.42	Α
trans-Chlordane	ND		ug/kg	5.09		1.34	Α
Chlordane	ND		ug/kg	34.0		13.5	Α



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 12/10/20 17:20

Analyst: JJW

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 00:45
Cleanup Method: EPA 3620B

Cleanup Date: 12/10/20

ParameterResultQualifierUnitsRLMDLColumnOrganochlorine Pesticides by GC - Westborough Lab for sample(s):04Batch:WG1442892-1

		Acceptane	ce
Surrogate	%Recovery Qual	ifier Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102	30-150	Α
Decachlorobiphenyl	109	30-150	A
2,4,5,6-Tetrachloro-m-xylene	90	30-150	В
Decachlorobiphenyl	125	30-150	В



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 12/11/20 10:48

Analyst: JJW

Extraction Method: EPA 3546
Extraction Date: 12/10/20 01:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by G	C - Westboroug	h Lab for s	sample(s):	01 Batch:	WG1443145	-1
Delta-BHC	ND		ug/kg	1.52	0.297	Α
Lindane	ND		ug/kg	0.631	0.282	Α
Alpha-BHC	ND		ug/kg	0.631	0.179	Α
Beta-BHC	ND		ug/kg	1.52	0.574	Α
Heptachlor	ND		ug/kg	0.758	0.340	Α
Aldrin	ND		ug/kg	1.52	0.533	Α
Heptachlor epoxide	ND		ug/kg	2.84	0.852	Α
Endrin	ND		ug/kg	0.631	0.259	Α
Endrin aldehyde	ND		ug/kg	1.89	0.663	Α
Endrin ketone	ND		ug/kg	1.52	0.390	Α
Dieldrin	ND		ug/kg	0.947	0.473	Α
4,4'-DDE	ND		ug/kg	1.52	0.350	Α
4,4'-DDD	ND		ug/kg	1.52	0.540	Α
4,4'-DDT	ND		ug/kg	2.84	1.22	Α
Endosulfan I	ND		ug/kg	1.52	0.358	Α
Endosulfan II	ND		ug/kg	1.52	0.506	Α
Endosulfan sulfate	ND		ug/kg	0.631	0.300	Α
Methoxychlor	ND		ug/kg	2.84	0.884	Α
Toxaphene	ND		ug/kg	28.4	7.95	Α
cis-Chlordane	ND		ug/kg	1.89	0.528	Α
trans-Chlordane	ND		ug/kg	1.89	0.500	Α
Chlordane	ND		ug/kg	12.6	5.02	Α



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 12/11/20 10:48

Analyst: JJW

Extraction Method: EPA 3546
Extraction Date: 12/10/20 01:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/20

ParameterResultQualifierUnitsRLMDLColumnOrganochlorine Pesticides by GC - Westborough Lab for sample(s):01Batch:WG1443145-1

		Α	cceptanc	е
Surrogate	%Recovery Q	ualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	Α
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	В
Decachlorobiphenyl	100		30-150	В



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

RPD "Recovery **GSO7** CS

	201)	6	ovecovery			2	
Parameter	"Recovery	Qual	%Recovery	very	Qual	Limits	RPD	Qual	Limits C	Column
Organochlorine Pesticides by GC - Westborough	Lab Associ	ited sample(s):	4	3atch: 1	WG1442892-2	ated sample(s): 04 Batch: WG1442892-2 WG1442892-3				

102	108	30-150	9	30	Ą
102	108	30-150	9	30	۷
111	120	30-150	∞	30	۷
113	104	30-150	∞	30	∢
101	112	30-150	10	30	٨
88	88	30-150	~	30	∢
92	109	30-150	17	30	∢
100	116	30-150	15	30	۷
86	101	30-150	16	30	٧
92	108	30-150	13	30	٧
103	110	30-150	7	30	A
63	116	30-150	22	30	٧
110	118	30-150	7	30	٧
104	114	30-150	0	30	۷
86	109	30-150	1	30	٧
101	118	30-150	16	30	A
102	116	30-150	13	30	A
103	110	30-150	7	30	∢
96	118	30-150	21	30	٧
94	114	30-150	19	30	٨



FRANKFURT REMEDIATION

UT5520

Project Number: Project Name:

L2054247 Lab Number:

12/15/20 Report Date:

Limits
Qual
RPD
Limits
Qual
%Recovery
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arameter

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1442892-2 WG1442892-3

Surrogate	LCS %Recovery	Qual %Re	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		104		30-150	⋖
Decachlorobiphenyl	105		113		30-150	۷
2,4,5,6-Tetrachloro-m-xylene	88		93		30-150	В
Decachlorobiphenyl	118		134		30-150	В



L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

Column RPD Limits Qual RPD%Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1443145-2 WG1443145-3 **Parameter**

Delta-BHC	64	7.1	30-150	10	30	∢
Lindane	65	72	30-150	10	30	٨
Alpha-BHC	71	78	30-150	o	30	A
Beta-BHC	74	80	30-150	∞	30	A
Heptachlor	99	72	30-150	O	30	A
Aldrin	55	29	30-150	20	30	٨
Heptachlor epoxide	58	29	30-150	14	30	∢
Endrin	29	70	30-150	17	30	4
Endrin aldehyde	46	48	30-150	4	30	A
Endrin ketone	57	09	30-150	Ω.	30	A
Dieldrin	62	72	30-150	15	30	A
4,4'-DDE	57	29	30-150	16	30	٧
4,4'-DDD	64	77	30-150	18	30	٧
4,4'-DDT	09	74	30-150	21	30	4
Endosulfan I	61	70	30-150	14	30	4
Endosulfan II	59	89	30-150	14	30	٧
Endosulfan sulfate	58	29	30-150	2	30	٧
Methoxychlor	62	71	30-150	14	30	4
cis-Chlordane	62	72	30-150	15	30	∢
trans-Chlordane	29	89	30-150	41	30	⋖



FRANKFURT REMEDIATION

UT5520

Project Number: Project Name:

Lab Number:

12/15/20 Report Date:

L2054247

Qual RPD%Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery **Parameter**

RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1443145-2 WG1443145-3

	SO7		TCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	∢
Decachlorobiphenyl	72		87		30-150	⋖
2,4,5,6-Tetrachloro-m-xylene	7.1		92		30-150	В
Decachlorobiphenyl	97		115		30-150	В



METALS



12/03/20 13:45

Date Collected:

Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 81%

Percent Solids: Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Aluminum, Total	10600		mg/kg	9.69	2.62	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Antimony, Total	0.669	J	mg/kg	4.84	0.368	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Arsenic, Total	14.7		mg/kg	0.969	0.202	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Barium, Total	64.7		mg/kg	0.969	0.169	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Beryllium, Total	0.484		mg/kg	0.484	0.032	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Cadmium, Total	0.833	J	mg/kg	0.969	0.095	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Calcium, Total	6270		mg/kg	9.69	3.39	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Chromium, Total	14.0		mg/kg	0.969	0.093	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Cobalt, Total	8.72		mg/kg	1.94	0.161	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Copper, Total	24.0		mg/kg	0.969	0.250	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Iron, Total	24100		mg/kg	4.84	0.875	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Lead, Total	19.4		mg/kg	4.84	0.260	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Magnesium, Total	3490		mg/kg	9.69	1.49	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Manganese, Total	949		mg/kg	0.969	0.154	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.078	0.051	1	12/11/20 11:20	12/11/20 15:33	EPA 7471B	1,7471B	VW
Nickel, Total	15.6		mg/kg	2.42	0.234	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Potassium, Total	446		mg/kg	242	14.0	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Selenium, Total	1.11	J	mg/kg	1.94	0.250	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.969	0.274	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Sodium, Total	27.6	J	mg/kg	194	3.05	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Thallium, Total	0.795	J	mg/kg	1.94	0.305	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Vanadium, Total	19.6		mg/kg	0.969	0.197	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Zinc, Total	82.0		mg/kg	4.84	0.284	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD



L2054247

Lab Number:

Project Name: FRANKFURT REMEDIATION

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis Batch Quality Control

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for s	ample(s):	01,04 B	atch: W	G144361	13-1				
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Chromium, Total	0.120	J	mg/kg	0.400	0.038	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Iron, Total	1.18	J	mg/kg	2.00	0.361	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Mans	sfield Lab for sample(s):	01,04 B	atch: W	G14436	16-1				
Mercury, Total	ND	mg/kg	0.083	0.054	1	12/11/20 11:20	12/11/20 14:50	1,7471B	VW



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

L2054247 Lab Number:

12/15/20

Report Date:

FRANKFURT REMEDIATION UT5520 Project Number: Project Name:

"Recovery ς; :

Parameter	LCS %Recovery	Qual %R	LCSD	%R Qual L	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04		Batch: WG1443613-2		SRM Lot Number: D109-540	540			
Aluminum, Total	29		ı	O.	50-150	1		
Antimony, Total	160		ı	1	19-250	ı		
Arsenic, Total	106		ı	7	70-130	ı		
Barium, Total	88		ı	7	75-125	ı		
Beryllium, Total	92		ı	7	75-125	ı		
Cadmium, Total	104		ı	7	75-125	ı		
Calcium, Total	88		ı	7	73-128	ı		
Chromium, Total	92		ı	7	70-130	ı		
Cobalt, Total	105		ı	7	75-125	ı		
Copper, Total	66		ı	7	75-125	ı		
Iron, Total	91		ı	3	35-165	ı		
Lead, Total	101		ı	7	72-128	ı		
Magnesium, Total	82		ı	9	62-138	ı		
Manganese, Total	94		1	7	74-126	1		
Nickel, Total	103		ı	7	70-130	ı		
Potassium, Total	83		ı	5	59-141	ı		
Selenium, Total	104		1	9	68-132	ı		
Silver, Total	100		ı	9	68-131	ı		
Sodium, Total	100		ı	က	35-165	1		
Thallium, Total	105		ı	9	68-131	1		
Vanadium, Total	92			2	59-141	1		



Lab Control Sample Analysis Batch Quality Control

L2054247 Lab Number: FRANKFURT REMEDIATION

UT5520

Project Number: Project Name:

12/15/20

Report Date:

RPD Limits				
RPD		ı		ı
%Recovery Limits	umber: D109-540	70-130	umber: D109-540	60-140
LCSD %Recovery	13-2 SRM Lot Nu	ı	16-2 SRM Lot Nu	ı
	Batch: WG144361		Batch: WG144361	
LCS %Recovery	e(s): 01,04	102	e(s): 01,04	111
Parameter	Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1443613-2 SRM Lot Number: D109-540	Zinc, Total	Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1443616-2 SRM Lot Number: D109-540	Mercury, Total



Matrix Spike Analysis Batch Quality Control

FRANKFURT REMEDIATION

UT5520 Project Number:

Project Name:

L2054247 Lab Number:

12/15/20 Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Qual	Recovery al Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04	Associated san	nple(s): 01,04	QC Bat	QC Batch ID: WG1443613-3	3613-3	QC Sam	QC Sample: L2054053-01	Client ID: M	MS Sample	
Aluminum, Total	10200	182	10700	275	Ø	1	ı	75-125	ı	20
Antimony, Total	0.328J	45.5	28.9	64	a	ı	•	75-125	1	20
Arsenic, Total	5.96	10.9	13.7	7.1	Ø	ı	•	75-125	1	20
Barium, Total	101	182	234	73	a	ı		75-125	1	20
Beryllium, Total	0.840	4.55	4.13	72	Ø	ı	ı	75-125	1	20
Cadmium, Total	0.566	4.64	3.68	29	Ø	ı	•	75-125	1	20
Calcium, Total	1180	910	2020	92			1	75-125	1	20
Chromium, Total	20.4	18.2	31.8	63	Ø		•	75-125	1	20
Cobalt, Total	11.6	45.5	40.0	62	Ø	ı	•	75-125	1	20
Copper, Total	53.7	22.7	69.5	69	Ø	•	•	75-125	1	20
Iron, Total	19400	91	19100	0	Ø	•	•	75-125	1	20
Lead, Total	11.1	46.4	40.5	63	Ø		1	75-125	1	20
Magnesium, Total	3990	910	4340	38	Ø		1	75-125	1	20
Manganese, Total	257	45.5	524	0	Ø	•	•	75-125	1	20
Nickel, Total	19.2	45.5	45.8	28	Ø	1	•	75-125	1	20
Potassium, Total	581	910	1380	88			•	75-125	ı	20
Selenium, Total	0.373J	10.9	7.42	89	Ø		•	75-125	ı	20
Silver, Total	QN	27.3	19.9	73	Ø	ı	1	75-125	1	20
Sodium, Total	96.5	910	777	75		ı	1	75-125	1	20
Thallium, Total	QN	10.9	09.9	09	Ø	ı	1	75-125	1	20
Vanadium, Total	24.1	45.5	53.2	64	Ø		ı	75-125	1	20



Matrix Spike Analysis Batch Quality Control

L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION

UT5520

Parameter	Native Sample	MS Added	MS Found	MS MS Found %Recovery		MSD Found	MSD %Recovery	Recovery Limits RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04	ssociated sam	ple(s): 01,04	QC Batc	th ID: WG1443	3613-3	QC Samp	ole: L2054053-01	C Batch ID: WG1443613-3 QC Sample: L2054053-01 Client ID: MS Sample	
Zinc, Total	41.1	45.5	70.1	64	Ø	1	•	75-125 -	20
Total Metals - Mansfield Lab Associated sample(s): 01,04	ssociated sam	ple(s): 01,04	QC Batc	:h ID: WG1443	3616-3	QC Samp	ole: L2054311-01	C Batch ID: WG1443616-3 QC Sample: L2054311-01 Client ID: MS Sample	
Mercury, Total	0.062J	0.185	0.254	137	Ø		ı	80-120	20



Lab Duplicate Analysis Batch Quality Control

L2054247 12/15/20 Lab Number: Report Date:

> UT5520 Project Number:

FRANKFURT REMEDIATION

Project Name:

Parameter	Native Sample	Duplicate Sample Units	Units	RPD	Qual	RPD Qual RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC		Batch ID: WG1443613-4 QC Sample: L2054053-01 Client ID: DUP Sample	L2054053-01	Client ID:	DUP Sam	eldi
Arsenic, Total	5.96	5.41	mg/kg	10		20
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC		Batch ID: WG1443616-4 QC Sample: L2054311-01 Client ID: DUP Sample	L2054311-01	Client ID:	DUP Sam	eldi
Mercury, Total	0.062J	0.064J	mg/kg	S		20



INORGANICS & MISCELLANEOUS



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westl	orough Lal)								
Solids, Total	81.0		%	0.100	NA	1	-	12/08/20 14:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	12/15/20 12:50	12/15/20 15:58	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.988	0.198	1	12/12/20 15:15	12/13/20 21:30	1,7196A	JT



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02 Date Collected: 12/03/20 14:00

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	80.2		%	0.100	NA	1	-	12/09/20 13:48	121,2540G	RI



Project Name:FRANKFURT REMEDIATIONLab Number:L2054247

Project Number: UT5520 Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03 Date Collected: 12/03/20 14:08

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	85.0		%	0.100	NA	1	-	12/09/20 13:48	121,2540G	RI



Project Name: FRANKFURT REMEDIATION Lab Number: L2054247

Project Number: UT5520 Report Date: 12/15/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab for sar	nple(s): 01	Batch:	: WG14	44052-1				
Cyanide, Total	ND	mg/kg	0.92	0.19	1	12/15/20 12:50	12/15/20 15:50	1,9010C/9012	B CR
General Chemistry - W	estborough Lab for sar	nple(s): 01	,04 Bat	tch: W0	G1444282-1				
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	12/12/20 15:15	12/13/20 21:30	1,7196A	JT



Lab Control Sample Analysis Batch Quality Control

L2054247 12/15/20 Lab Number: Report Date: FRANKFURT REMEDIATION UT5520

Parameter	LCS %Recovery	Qual	LCSD	Qual	%Recovery Limits	RPD	Qual	RPD Qual RPD Limits	ı
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1444052-2 WG1444052-3	ociated sample(s	s): 01 Ba	tch: WG1444052-	.2 WG144	14052-3				
Cyanide, Total	75	Ø	82		80-120	10		35	
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1444282-2	ociated sample(s	3): 01,04	Batch: WG14442	82-2					
Chromium, Hexavalent	93		•		80-120	1		20	



Matrix Spike Analysis Batch Quality Control

L2054247 Lab Number:

12/15/20

Report Date:

FRANKFURT REMEDIATION

UT5520

Parameter	Native Sample	MS Added	MS Found	MS MS MSFound Found	Qual	MSD Found	MSD %Recover	/ Qual	Recovery Limits	RPD	MSD Recovery RPD %Recovery Qual Limits	
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1444052-4 WG1444052-5 QC Sample: L2054605-01 Client ID: MS Sample	ugh Lab Asso	ciated samp	le(s): 01 C	C Batch ID: V	VG1444()52-4 WG	1444052-5	QC Samı	ole: L2054(305-01	Client ID: MS	
Cyanide, Total	QN			100		10	86		75-125	10	35	
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1444282-4 QC Sample: L2054247-01 Client ID: LIETZ PIT STOCKPILE-TOPSOIL	ugh Lab Asso	ciated samp	le(s): 01,04	QC Batch II): WG14	44282-4	QC Sample	: L20542	47-01 CII	ent ID:	LIETZ PIT	
Chromium, Hexavalent	Q	1700	2010	118					75-125	ı	20	



Lab Duplicate Analysis Batch Quality Control

L2054247 12/15/20 Lab Number: Report Date:

FRANKFURT REMEDIATION

UT5520

Parameter	Native	Native Sample	Duplicate Sample	e Units	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s):		QC Batch ID:	01 QC Batch ID: WG1442227-1 QC Sample: L2054045-01 Client ID: DUP Sample	C Sample: L205	4045-01 C	lient ID: DL	JP Sample
Solids, Total	œ	85.8	85.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s):		. QC Batch ID:	04 QC Batch ID: WG1442785-1 QC Sample: L2054637-01 Client ID: DUP Sample	C Sample: L205	4637-01 C	lient ID: DU	JP Sample
Solids, Total	о	91.3	91.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): Sample		:-03,05-06 QC E	02-03,05-06 QC Batch ID: WG1442914-1 QC Sample: L2054703-01 Client ID: DUP	:914-1 QC Sam	ple: L2054	703-01 Clie	int ID: DUP
Solids, Total	7	79.0	79.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): STOCKPILE-TOPSOIL		01,04 QC Batch II	QC Batch ID: WG1444282-6	QC Sample: L2054247-01 Client ID: LIETZ PIT	2054247-01	Client ID:	LIETZ PIT
Chromium, Hexavalent	2	ND	N	mg/kg	NC		20



FRANKFURT REMEDIATION Project Name:

Project Number: UT5520

Sample Receipt and Container Information

Lab Number: L2054247 Report Date: 12/15/20

Serial_No:12152017:37

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Cooler

Absent

⋖

	Analysis(*)	18(7)	BE-TI(180),BA-TI(180),AS-TI(180),AG- TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL- TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB- TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG- T(28),FE-TI(180),MG-TI(180),MN-TI(180),NA- TI(180),CA-TI(180),CD-TI(180),K-TI(180)	NYTCL-8270(14),TCN-9010(14),NYTCL- 8081(14),NYTCL-8082(14),HEXCR-7196(30)	NYTCL-8270(14),TCN-9010(14),NYTCL- 8081(14),NYTCL-8082(14),HEXCR-7196(30)	NYTCL-8270(14),TCN-9010(14),NYTCL- 8081(14),NYTCL-8082(14),HEXCR-7196(30)	TS(7),NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	TS(7),NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	TS(7)	BE-TI(180),AS-TI(180),BA-TI(180),AG- TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL- TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB- TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG- T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA- TI(180),CA-TI(180),K-TI(180),CD-TI(180)	NYTCL-8270(14),NYTCL-8081(14),HEXCR- 7196(30)
	Date/Time	•		2.00	2.00	2.00	•	_	09-DEC-20 11:35	09-DEC-20 11:35		_	09-DEC-20 11:35	09-DEC-20 11:35			21-
	Seal	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
	Pres	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>
Temp	deg C	3.6	9.09	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Final	рн																
Initial	Η	N A	∀	¥ Y	₹	¥ V	Ϋ́	NA	NA	ΑN	NA	ΑN	ΑN	A A	A A	∀	₹ Z
	Cooler	٨	⋖	∢	∢	∢	∢	4	4	∢	4	∢	∢	∢	∢	⋖	∢
ırmation etti etti etti etti etti etti etti ett	Container Type	Plastic 2oz unpreserved for TS	Metals Only-Glass 60mL/2oz unpreserved	Glass 120ml/4oz unpreserved	Glass 120ml/4oz unpreserved	Glass 250ml/8oz unpreserved	Vial Large Septa unpreserved (4oz)	Vial MeOH preserved split	Vial Water preserved split	Vial Water preserved split	Vial Large Septa unpreserved (4oz)	Vial MeOH preserved split	Vial Water preserved split	Vial Water preserved split	Plastic 2oz unpreserved for TS	Metals Only-Glass 60mL/2oz unpreserved	Glass 120ml/4oz unpreserved
Container Information	Container ID	L2054247-01A	L2054247-01B	L2054247-01C	L2054247-01D	L2054247-01E	L2054247-02A	L2054247-02X	L2054247-02Y	L2054247-02Z	L2054247-03A	L2054247-03X	L2054247-03Y	L2054247-03Z	L2054247-04A	L2054247-04B	L2054247-04C



Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Serial_No:12152017:37 *Lab Number:* L2054247

Lab Number: L2054247 Report Date: 12/15/20

		CL-8081(14),HEXCR-	CL-8081(14),HEXCR-								
	Analysis(*)	NYTCL-8270(14),NYTCL-8081(14),HEXCR- 7196(30)	NYTCL-8270(14),NYTCL-8081(14),HEXCR-7196(30)	TS(7),NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	TS(7),NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)	NYTCL-8260(14)
Frozen	Date/Time					09-DEC-20 11:35	09-DEC-20 11:35			09-DEC-20 11:35	09-DEC-20 11:35
	Seal	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
	Pres	>	>	>	>	>	>	>	>	>	>
Temp		3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Final	Н										
Initial	Н	N A	Ą	NA	¥.	¥.	¥.	Ą	Ą	¥.	Ą
	Cooler	٨	∢	∢	∢	∢	∢	∢	∢	∢	∢
ırmation	Container Type	Glass 120ml/4oz unpreserved	Glass 250ml/8oz unpreserved	Vial Large Septa unpreserved (4oz)	Vial MeOH preserved split	Vial Water preserved split	Vial Water preserved split	Vial Large Septa unpreserved (4oz)	Vial MeOH preserved split	Vial Water preserved split	Vial Water preserved split
Container Information	Container ID	L2054247-04D	L2054247-04E	L2054247-05A	L2054247-05X	L2054247-05Y	L2054247-05Z	L2054247-06A	L2054247-06X	L2054247-06Y	L2054247-06Z

Project Name: Lab Number: FRANKFURT REMEDIATION L2054247 **Project Number:** UT5520 **Report Date:** 12/15/20

GLOSSARY

Acronyms

LOQ

MS

RPD

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.)

- 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

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

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.

- 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.

 $NDPA/DPA \quad \text{- N-Nitrosodiphenylamine}.$

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.

- 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:FRANKFURT REMEDIATIONLab Number:L2054247Project Number:UT5520Report Date:12/15/20

Footnotes

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

Terms

1

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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:FRANKFURT REMEDIATIONLab Number:L2054247Project Number:UT5520Report Date:12/15/20

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:FRANKFURT REMEDIATIONLab Number:L2054247Project Number:UT5520Report Date:12/15/20

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 17

Page 1 of 1

Published Date: 4/28/2020 9:42:21 AM

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; 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.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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, SM4500CI-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 II, 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.

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.

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.

Pre-Qualtrax Document ID: 08-113 Document Type: Form



ANALYTICAL REPORT

Lab Number: L2100592

Client: Environmental Waste Minimization, Inc.

14 Brick Kiln Ct.

Northampton, PA 18067

ATTN: Joel Baier

Phone: (484) 275-6909

Project Name: TETRA TECH

Project Number: 116375
Report Date: 01/19/21

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

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

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



L2100592 01/19/21

Lab Number: Report Date:

Project Name: TETRA TECH

Project Number: 116375

Receive Date 01/06/21 01/06/21 11:30 Collection Date/Time 253 EAST MAIN STREET FRANKFURT, NY 13340 Sample Location Matrix SOIL 1 COMP Client ID L2100592-01 Alpha Sample ID

ALPHA

Project Name: TETRA TECH Lab Number: L2100592
Project Number: 116375 Report Date: 01/19/21

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:TETRA TECHLab Number:L2100592Project Number:116375Report Date:01/19/21

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:

Juan & Meil Susan O' Neil

Title: Technical Director/Representative Date: 01/19/21

ORGANICS



SEMIVOLATILES



Project Name: TETRA TECH Lab Number: L2100592

Project Number: 116375 Report Date: 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01 Date Collected: 01/06/21 11:30

Client ID: 1 COMP Date Received: 01/06/21

Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340 Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3570

Analytical Method: 1,8270D-SIM Extraction Date: 01/13/21 11:33
Analytical Date: 01/16/21 04:22

Analyst: PS Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfi	eld Lab					
1,4-Dioxane	ND		ug/kg	8.64	2.20	1
Surrogate			% Recovery	Qualifier		eptance riteria
1.4-Dioxane-d8			89			 15-110



L2100592

01/19/21

Project Name: TETRA TECH

Project Number: 116375

SAMPLE RESULTS

Date Collected: 01/06/21 11:30

Lab Number:

Report Date:

Lab ID: L2100592-01

Client ID: 1 COMP

1 COMP Date Received: 01/06/21 253 EAST MAIN STREET FRANKFURT, NY 13340 Field Prep: Not Specified

Sample Depth:

Sample Location:

Matrix: Soil Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID Extraction Date: 01/10/21 11:10
Analytical Date: 01/11/21 07:26

Analyst: HT Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilut	ion - Mansfiel	d Lab				
Perfluorobutanoic Acid (PFBA)	0.044	J	ng/g	0.558	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.558	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.279	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.558	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.279	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.279	0.068	1
Perfluorooctanoic Acid (PFOA)	0.119	J	ng/g	0.279	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.558	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.558	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.279	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	0.549		ng/g	0.279	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.279	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.558	0.320	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.558	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.558	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.558	0.171	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.558	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.558	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.558	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.558	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.558	0.060	1
PFOA/PFOS, Total	0.668	J	ng/g	0.279	0.047	1



Project Name: TETRA TECH Lab Number: L2100592

Project Number: 116375 Report Date: 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01 Date Collected: 01/06/21 11:30

Client ID: 1 COMP Date Received: 01/06/21

Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340

Field Prep:

Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135	
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		58-150	
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	117		74-139	
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		66-128	
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		71-129	
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139	
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154	
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		72-140	
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136	
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	99		19-175	
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		31-134	
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		61-155	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		34-137	
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150	
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		24-159	



Project Name: TETRA TECH

Project Number: 116375

Lab Number:

L2100592

Report Date: 01/19/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID Analytical Date: 01/11/21 05:30

Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 01/10/21 11:10

arameter	Result	Qualifier	Units	RL		MDL	
erfluorinated Alkyl Acids by Isotope	Dilution -	Mansfield	Lab for	sample(s):	01	Batch:	WG1453444-1
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500		0.023	3
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500		0.046	6
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250		0.039	9
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500		0.053	3
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250		0.04	5
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250		0.06	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250		0.042	2
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500		0.180)
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500		0.136	3
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250		0.07	5
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250		0.130)
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250		0.06	7
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	d ND		ng/g	0.500		0.28	7
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	c ND		ng/g	0.500		0.202	2
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500		0.04	7
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500		0.153	3
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500		0.098	3
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500		0.08	5
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500		0.070)
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500		0.204	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500		0.054	1
PFOA/PFOS, Total	ND		ng/g	0.250		0.042	2



L2100592

Project Name: TETRA TECH Lab Number:

Project Number: 116375 Report Date: 01/19/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID Extraction Method: ALPHA 23528
Analytical Date: 01/11/21 05:30 Extraction Date: 01/10/21 11:10

Analyst: HT

Parameter Result Qualifier Units RL MDL

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1453444-1

Surrogate (Extracted Internal Standard)	%Recovery	Acceptance Qualifier Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	111	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	132	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	123	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	116	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	122	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	113	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	121	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	119	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	111	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88	54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	102	24-159



Project Name: Lab Number: **TETRA TECH** L2100592

Project Number: Report Date: 116375 01/19/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID Extraction Method: ALPHA 23528 Analytical Date:

01/11/21 17:23 01/10/21 11:10 **Extraction Date:**

Analyst: RS

Parameter	Result	Qualifier	Units	RL	MDL	
Perfluorinated Alkyl Acids by Isotope	Dilution -	- Mansfield I	_ab for	sample(s): 01	Batch: WG1453444	l-1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098	

Surrogate (Extracted Internal Standard)	%Recovery Qu	Acceptance ualifier Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	75	10-117



Project Name: TETRA TECH Lab Number: L2100592

Project Number: 116375 Report Date: 01/19/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM Extraction Method: EPA 3570

Analytical Date: 01/15/21 15:54 Extraction Date: 01/13/21 11:33

Analyst: PS

Parameter	Result	Qualifier	Units	3	RL	MDL
1,4 Dioxane by 8270D-SIM -	Mansfield Lab for	sample(s):	01	Batch:	WG1454537	7-1
1,4-Dioxane	ND		ug/k	g	8.00	2.04

Surrogate	%Recovery Qualifi	Acceptance %Recovery Qualifier Criteria			
1,4-Dioxane-d8	96	15-110			

ΔLPHA

Lab Control Sample Analysis Batch Quality Control

L2100592 01/19/21 Lab Number: Report Date:

116375 Project Number: Project Name:

TETRA TECH

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s):	- Mansfield Lab	Associated	sample(s): 01	Batch: Wo	Batch: WG1453444-2			
Perfluorobutanoic Acid (PFBA)	94		•		71-135	,		30
Perfluoropentanoic Acid (PFPeA)	88		I		69-132	ı		30
Perfluorobutanesulfonic Acid (PFBS)	91		ı		72-128	1		30
Perfluorohexanoic Acid (PFHxA)	93		1		70-132	ı		30
Perfluoroheptanoic Acid (PFHpA)	91		1		71-131	ı		30
Perfluorohexanesulfonic Acid (PFHxS)	101		ı		67-130	1		30
Perfluorooctanoic Acid (PFOA)	92		ı		69-133	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	96		ı		64-140	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	93		ı		70-132	ı		30
Perfluorononanoic Acid (PFNA)	91		ı		72-129	1		30
Perfluorooctanesulfonic Acid (PFOS)	94		1		68-136	ı		30
Perfluorodecanoic Acid (PFDA)	94		1		69-133	ı		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	119		ı		65-137	1		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	88		ı		63-144	ı		30
Perfluoroundecanoic Acid (PFUnA)	87		1		64-136	ı		30
Perfluorodecanesulfonic Acid (PFDS)	93		1		59-134	ı		30
Perfluorooctanesulfonamide (FOSA)	06		1		67-137	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		ı		61-139	ı		30
Perfluorododecanoic Acid (PFDoA)	102		1		69-135	1		30
Perfluorotridecanoic Acid (PFTrDA)	110		1		66-139	•		30
Perfluorotetradecanoic Acid (PFTA)	26		1		69-133			30



Lab Control Sample Analysis Batch Quality Control

Lab Number:

01/19/21

L2100592

Report Date: **TETRA TECH** 116375 Project Number: Project Name:

RPD Limits Qual RPD%Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery Parameter

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1453444-2

				Acceptance
Surrogate (Extracted Internal Standard)	%Recovery Q	Qual %Recovery	y Qual	Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	109			61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141			58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	122			74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	120			66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	116			71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105			78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111			75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	06			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	120			72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112			79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	110			75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	93			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96			31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119			61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78			34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96			54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	26			24-159



Lab Control Sample Analysis

Batch Quality Control

TETRA TECH

116375

Project Name: Project Number:

Lab Number: L2100592

Report Date: 01/19/21

RPD Limits Qual RPD %Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery

30 Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1453444-2 67-137 103 Perfluorooctanesulfonamide (FOSA) **Parameter**

Acceptance Criteria Qual "Recovery TCSD Qual "Recovery SO7 Surrogate (Extracted Internal Standard)

Perfluoro[13C8]Octanesulfonamide (M8FOSA)

92

10-117



Lab Control Sample Analysis Batch Quality Control

L2100592 Lab Number:

01/19/21

Report Date:

TETRA TECH 116375 Project Number: Project Name:

RPD Limits %Recovery Limits LCSD %Recovery LCS %Recovery

Qual RPD1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01 Batch: WG1454537-2 WG1454537-3 Qual Qual **Parameter**

1,4-Dioxane

Acceptance Criteria 15-110 Qual TCSD "Recovery 88 Qual "Recovery SO7 8 1,4-Dioxane-d8 Surrogate



INORGANICS & MISCELLANEOUS



Serial_No:01192115:32

Project Name: TETRA TECH Lab Number: L2100592

Project Number: 116375 Report Date: 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01 Date Collected: 01/06/21 11:30

Client ID: 1 COMP Date Received: 01/06/21 Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - M	ansfield Lab									
Solids, Total	81.8		%	0.100	0.100	1	-	01/13/21 10:47	121,2540G	AL



Lab Duplicate Analysis Batch Quality Control

TETRA TECH

116375

Project Number: Project Name:

L2100592 01/19/21 Lab Number:

Report Date:

RPD Limits Qual RPD Units **Duplicate Sample** Native Sample **Parameter**

9 General Chemistry - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454526-1 QC Sample: L2100592-01 Client ID: 1 COMP % 82.3 81.8 Solids, Total

TETRA TECH Project Name:

Project Number: 116375

Lab Number: L2100592 Serial_No:01192115:32

Report Date: 01/19/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler

Container Information	rmation		Initial Fin	al Temp			Frozen	
Container ID	Container Type	Cooler	нд нд	deg C	deg C Pres Seal	Sea!	Date/Time	Analysis(*)
L2100592-01A	Glass 250ml/8oz unpreserved	∢	Ą	4.6	>	Absent		A2-1,4-DIOXANE-SIM(14)
L2100592-01A1	Glass 250ml/8oz unpreserved	A	NA	4.6	>	Absent		A2-1,4-DIOXANE-SIM(14)
L2100592-01B	Plastic 8oz unpreserved	A	NA	4.6	>	Absent		A2-NY-537-ISOTOPE(14)
L2100592-01B1	Plastic 8oz unpreserved	A	NA	4.6	>	Absent		A2-NY-537-ISOTOPE(14)
L2100592-01C	Plastic 2oz unpreserved for TS	A	NA A	4.6	>	Absent		A2-TS(7)
L2100592-01C1	Plastic 2oz unpreserved for TS	⋖	ΑN	4.6	>	Absent		A2-TS(7)



Serial_No:01192115:32 **Lab Number:** L2100

Project Name: L2100592 TETRA TECH

> 01/19/21 Report Date:

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
DEDELLIOPOETHED/DOLVETHED OADDOM// 10 + 0120 /DEDOA		
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)	DEMDA	277 72 4
Perfluoro-3-Methoxyropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6



Project Number: 116375

Project Name: TETRA TECH Lab Number: L2100592

Project Number: 116375 **Report Date:** 01/19/21

GLOSSARY

Acronyms

LCSD

LOD

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).

Laboratory Control Sample Duplicate: Refer to LCS.

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.

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.

- 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

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

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.

- 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.

 $NDPA/DPA \quad \text{- N-Nitrosodiphenylamine}.$

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:TETRA TECHLab Number:L2100592Project Number:116375Report Date:01/19/21

Footnotes

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

Terms

1

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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:TETRA TECHLab Number:L2100592Project Number:116375Report Date:01/19/21

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.
- ${f P}$ 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



Serial_No:01192115:32

Project Name:TETRA TECHLab Number:L2100592Project Number:116375Report Date:01/19/21

REFERENCES

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

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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



Serial_No:01192115:32

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 17

Page 1 of 1

Published Date: 4/28/2020 9:42:21 AM

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; 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.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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, SM4500CI-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 II, 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.

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.

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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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LEITZ TRUCKING CORP

162 McIntyre Road Suite C ~ Frankfort, N.Y. 13340 Phone #: (315) 724-5527

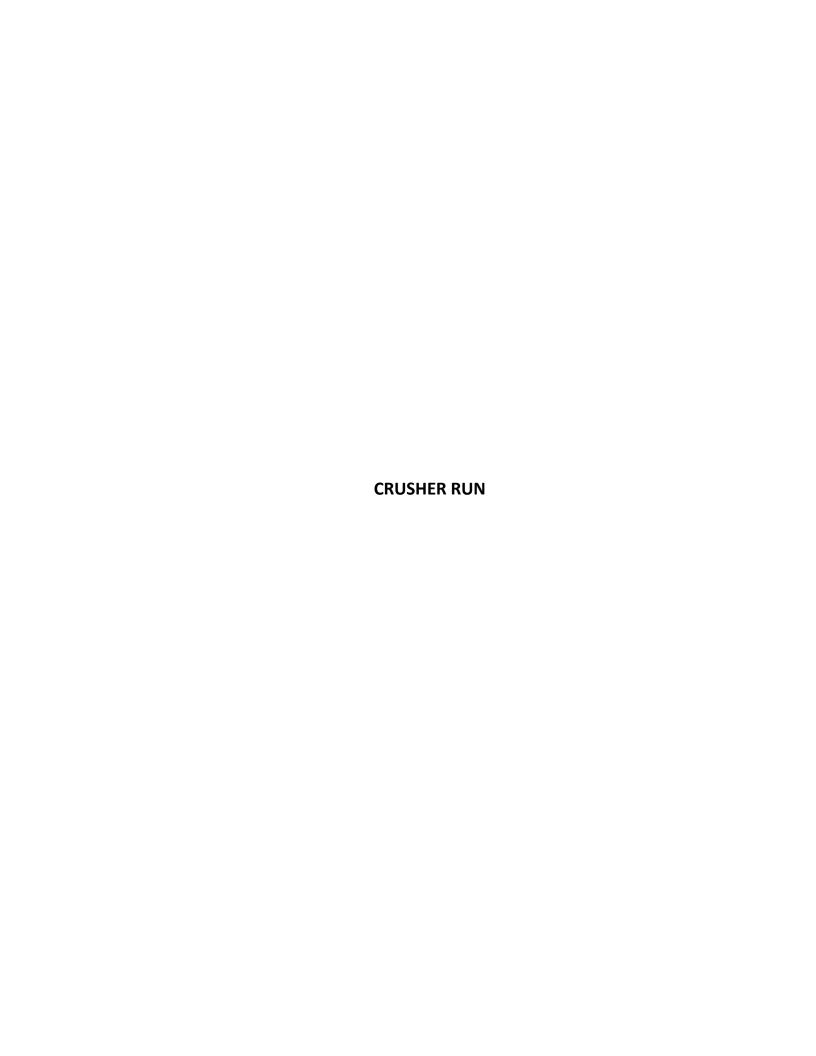
Licensed Producer of CU Structural Soil

NYS CERTIFIED WBE & DBE

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162 McIntyre Road Suite C ~ Frankfort, NY 13340 Phone(315)724-5527 Fax(315)735-1437 Sales Manager - sales@leitzgravel.com Owner - suleitz@leitzgravel.com

"We Move, Sell & Deliver the Earth"



RE: Former Union Fork and Hoe Site - Imported Stone Documentation

Bennett, William B (DEC) < william.bennett@dec.ny.gov>

Tue 1/5/2021 5:05 PM

To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>

Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>; Herman, David A (DEC)

<david.herman@dec.ny.gov>; Carpenter, Kevin J (DEC) <kevin.carpenter@dec.ny.gov>; Rys, Gregory A (HEALTH)

<gregory.rys@health.ny.gov>



1 attachments (252 KB)

DER10 Imported Fill Form - UFH Crusher Stone_12-31-2020.pdf;

A CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Dear Glenn,

The documentation for the crushed stone is acceptable.

The Department's construction inspector, Dave Herman, plans on visiting the site on Friday, January 8, 2020. Please confirm work will be performed on this date and provide a contact for Dave to meet at the site. Thanks.

Bill

William Bennett

Professional Engineer 1

New York State Department of Environmental Conservation 625 Broadway, Albany, NY 12233-7014

P: 518-402-9659 | F: 518-402-9679 | william.bennett@dec.ny.gov

www.dec.ny.gov | III | III



From: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>

Sent: Tuesday, January 5, 2021 4:33 PM

To: Bennett, William B (DEC) < william.bennett@dec.ny.gov>

Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>

Subject: Re: Former Union Fork and Hoe Site - Imported Stone Documentation

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Bill,

Thank you for your timely review and response to the backfill documentation. We will collect one sample from the topsoil source for PFAS and 1,4-dioxane tomorrow (1-6-2021). For clarification, please confirm that the crusher stone backfill submission is deemed acceptable. I have attached the crusher

stone backfill documentation that has been secured to prevent editing as per your comment. We will place the demarcation layer and backfill with the crusher stone when the excavation is complete.

We are looking to mobilize to the Site tomorrow (1-6-2021) and perform the excavation work by the end of this week or on Monday, 1-11-2021. We anticipate that the PFAS and 1,4-dioxane results will be available in about 10 days. This schedule should coincide with the loading of the excavated soil for transportation and disposal as time is needed for waste characterization sampling and analysis, profiles and generation of manifests, etc. once we generate and sample the soil stockpiles. We will then place the topsoil at that time when we remobilize for the transportation and disposal of the soil.

Please let me know if you have any questions.

Thanks.

From: Bennett, William B (DEC) < william.bennett@dec.ny.gov >

Sent: Tuesday, January 5, 2021 9:57 AM

To: Netuschil, Glenn < <u>Glenn.Netuschil@tetratech.com</u>>

Cc: Carpenter, Kevin J (DEC) < kevin.carpenter@dec.ny.gov >; Rys, Gregory A (HEALTH)

<gregory.rys@health.ny.gov>; dsweet <dsweet@ehs-strategy.com>

Subject: RE: Former Union Fork and Hoe Site - Imported Stone Documentation

 \triangle **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. \triangle

Dear Glenn,

The Department has the following comments on the attached submittals:

- The topsoil source must be sampled for PFAS and 1,4-Dioxane. Guidance on backfill soil sampling for emerging contaminants is provided in the attached guidance document.
- The forms should be revised or amended so all information presented is visible in entry fields and formatted so they are no longer editable.

Please provide revised submittals which address the above comments. Thanks.

William Bennett

Professional Engineer 1

New York State Department of Environmental Conservation 625 Broadway, Albany, NY 12233-7014

P: 518-402-9659 | F: 518-402-9679 | william.bennett@dec.ny.gov

www.dec.ny.gov | III | III

From: Netuschil, Glenn < Glenn.Netuschil@tetratech.com >

Sent: Thursday, December 31, 2020 3:43 PM

To: Bennett, William B (DEC) < william.bennett@dec.ny.gov >

Subject: Re: Former Union Fork and Hoe Site - Imported Stone Documentation



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



Request to Import/Reuse Fill or Soil

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

SECTION 1 – SITE BACKGROUND
The allowable site use is: Commercial or Industrial Use
Have Ecological Resources been identified? no
Is this soil originating from the site? no
How many cubic yards of soil will be imported/reused? 300-400
If greater than 1000 cubic yards will be imported, enter volume to be imported:
SECTION 2 – MATERIAL OTHER THAN SOIL
Is the material to be imported gravel, rock or stone? yes
Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes
Is this virgin material from a permitted mine or quarry? yes
Is this material recycled concrete or brick from a DEC registered processing facility? no
SECTION 3 - SAMPLING
Provide a brief description of the number and type of samples collected in the space below:
The material meets the requirements of DER-10, Section 5.4. No chemical testing is needed. A sieve analysis shows that the gradation of the material has less than 10% by weight passing an size 80 sieve.
Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.
If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed

SECTION 3 CONT'D - SAMPLING	
Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-1 Appendix 5):	0,
N/A	
Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.	
If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.	
SECTION 4 – SOURCE OF FILL	
Name of person providing fill and relationship to the source:	
Leitz Trucking Corp will provide fill from Barret Paving Materials.	
Location where fill was obtained:	
Litchfield, NY	
Identification of any state or local approvals as a fill source:	
If no approvals are available, provide a brief history of the use of the property that is the fill source:	
Virgin site. Material is used for NYSDOT Type 2 Road Base.	
Provide a list of supporting documentation included with this request:	
Attached Particle Size Distribution Report of the material.	

The information provided on this form is accurate and complete.

Classification	12-31-2020
Signature	Date
Glenn Netuschil	Print Name
Tetra Tech	Firm



ATLANTIC TESTING LABORATORIES

LABORATORY COMPACTION TEST REPORT No.: UT1877SL-044-04-19

WBE certified company

Client: Barrett Paving Materials, Inc.
Project: Laboratory Soil Analysis

Utica, New York

Page 1 of 3

Sample Date: April 30, 2019

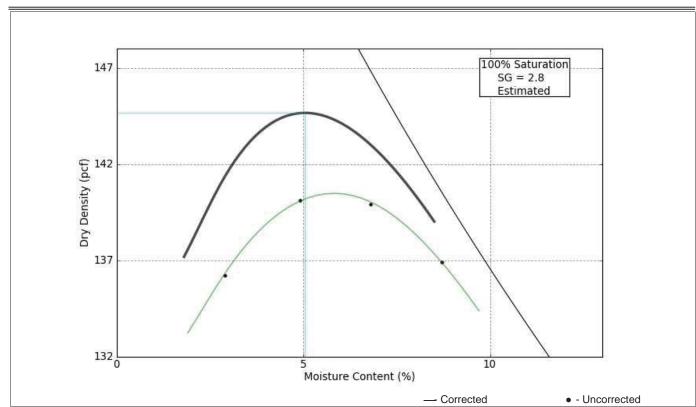
Sampled By: CLIENT Service Order No.: 16894

Sample No.: UT1877S-42

MATERIAL DESCRIPTION
Crusher Run proposed for use as NYSDOT

304-2/733-04 Type 2 (subbase)

Location: Stockpile from the pit



Elev/	Classif	ication	Received	Bulk	Oversize	Att	erberg Lin	nits	% >
Depth	USCS	AASHTO	Moist.	Sp.G.	Sp.G.	LL	PL	PI	3/4 in.
				2.67	2.67				19

CORRECTED TEST RESULTS

Maximum dry density (pcf) = 144.7

Optimum moisture (%) = 5.0

Source of Sample: Barrett Paving Materials-Litchfield Quarry (2-12)

Sp.G.: Estimated Prep Method: Moist Rammer: Mechanical

Remarks: Delivered by client on April 30, 2019

Test Specification: ASTM D-1557 (12) Method-C, ASTM D-4718

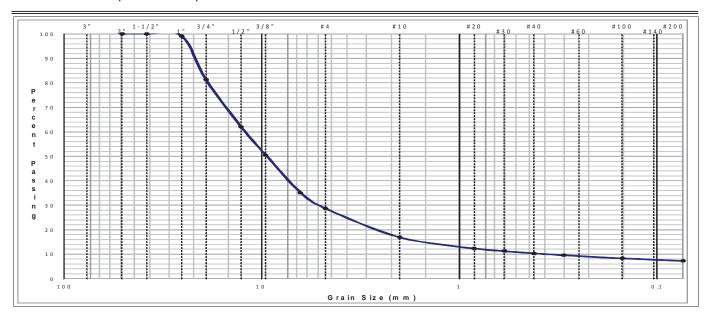
PARTICLE SIZE ANALYSIS REPORT

Client: Barrett Paving Materials, Inc. Sample Date: April 30, 2019

Project: Laboratory Soil Analysis Sampled By: CLIENT Utica, New York Service Order No.: 16894

Sample No.: UT1877S-42

Location: Stockpile from the pit



			% Grave	I						% Sand			
% +3"	Coa	rse	1	Medium	F	ine	Coarse		Medium			Fine	
	1			37	;	33	12		7			3	
SIEVE	PERCENT	SP	EC.	OUT O								% Fines:	7
SIZE	FINER	LOW	HIGH	SPEC. ((X)					scription			
2 in	100	100	100				Crusher Run pro	oposed fo	r use as	NYSDOT 3	304-2/733-04	Гуре 2	
1 1/2 in	100				\Box		(subbase)						
1.00 in	99												
3/4 in	81								Atterbe	rg Limits			
1/2 in	62						PL=		LL=		PI=		
3/8 in	51				\neg				Coeff	<u>icients</u>			
1/4 in	35	25	60		\neg		D₈₅ = 20.2385		$D_{60} = ^{\circ}$	12.0645	D ₅₀ =	9.3852	
No. 4	29				\Box		$D_{30} = 5.0283$		$D_{15} = 1$	1.3839	D ₁₀ =	0.3489	
No. 10	17				\Box		$C_{u} = 34.5693$		$C_{\mathbf{C}} = 6$	3.0051			
No. 20	12						-		Classi	fication			
No. 30	11						USCS=		0.000.	AASHTO:	=		
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No. 200	7.3	0	10					yu					
NYSDOT 304	-2/733-04 Typ	e 2 (Ta	ble 304-	1)									

Reviewed by:

Senior Technician

ggrippe@atlantictesting.com

Date: May 02, 2019



BARRETT PAVING MATERIALS INC.

4530 Wetzel Road, Liverpool, New York 13090 - Phone: 315-652-4585

John Leitz,

I have attached our mining permit and a letter from the New York State Department of Transportation, in order to meet these two documents we have to be a clean site. Meaning that we are not a dump site for any hazardous materials, we have a quarry of hard durable virgin Limestone that we crush on site and sell to the construction industry.

CC:

T. Kotary File Michael J. LaBuz Sales Representative Barrett Paving Materials Inc.



ANDREW M. CUOMO Governor JOAN McDONALD Commissioner

April 27, 2015

Mr. Scot A. Owens Barrett Paving Materials, Inc. 4530 Wetzel Road Liverpool, NY 13090 Aggregate Source Status
Name: Barrett Paving Materials, Inc.

Source No. 2-12R Location: Litchfield, NY

Coarse Aggregate Approved for Item 703-02

Note: Aggregate from this source is approved

only for 703-02 NYSDOT items

Dear Mr. Owens:

Aggregate from the operating location noted above is approved for item 703-02, Coarse Aggregate. The requirements of Materials Method 29, Aggregate Acceptance Procedures, have been met.

Aggregate sources which satisfy all applicable requirements of Materials Method 29, issued July 2007, appear on the approved List of Sources of Fine and Coarse aggregates. The Approved List is available on the Internet @

www.dot.ny.gov and clicking on A-Z Site Index, Aggregates.

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Any questions regarding these matters, may be directed to Ms. Marilyn Bradley or members of the staff in the Materials Bureau, Engineering Geology Section at (518) 457-1038.

Very truly yours,

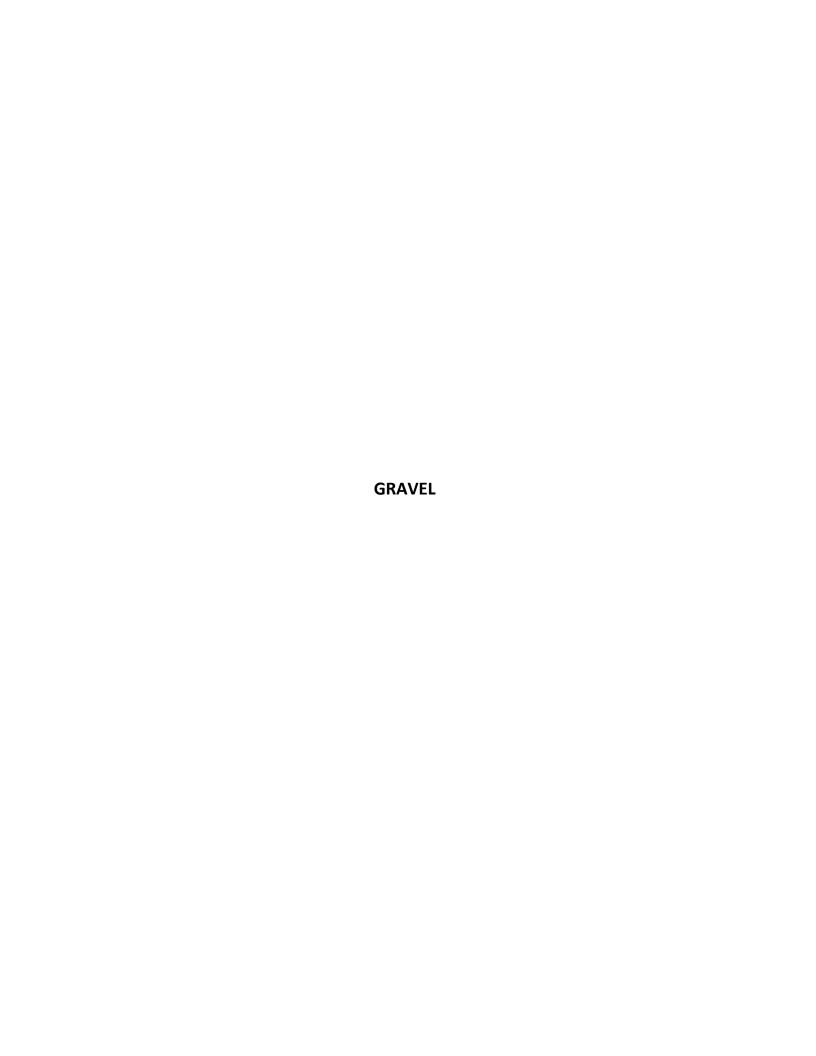
Marilyn Bradley

Engineering Geology

MJB/RLW File: 2- 12R

Cc: Tim Roemer, Region 2 Materials Engineer

Marly Bradley



RE: Former Union Fork and Hoe Site - Imported Stone Documentation

Bennett, William B (DEC) < william.bennett@dec.ny.gov>

Thu 12/10/2020 4:43 PM

To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>

1 attachments (1 MB)

NYSDEC Fill Import Request - Crushed Stone.pdf;

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments.

Hi Glenn,

Could you confirm what the use of this material will be at the site? Based on the properties of the material, it appears to be for staging and/or a tracking pad. Otherwise the documentation looks fine.

Also, can you confirm field work will begin next week? Our field inspector is scheduled to visit the site on Tuesday, December 15th.

Thanks.

Bill

William Bennett

Professional Engineer 1

New York State Department of Environmental Conservation

625 Broadway, Albany, NY 12233-7014

P: 518-402-9659 | F: 518-402-9679 | william.bennett@dec.ny.gov

www.dec.ny.gov | III |



From: Netuschil, Glenn < Glenn. Netuschil@tetratech.com>

Sent: Wednesday, December 9, 2020 4:32 PM

To: Bennett, William B (DEC) < william.bennett@dec.ny.gov>

Subject: Former Union Fork and Hoe Site - Imported Stone Documentation

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Bill,

Please find attached fill import request, for your approval, of stone for the former Union Fork and Hoe Site as part of the on-site soil removal activities, Frankfort, New York (NYSDEC Site No. 6-22-011). I will provide additional backfill documentation by the end of the week.

Please let me know if you have any questions.

Thanks.

Glenn Netuschil, P.E. | Senior Engineer Cell **+1 (631) 987-3206** | <u>glenn.netuschil@tetratech.com</u>

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



Request to Import/Reuse Fill or Soil

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

SECTION 1 – SITE BACKGROUND
The allowable site use is: Commercial or Industrial Use
Have Ecological Resources been identified? no
Is this soil originating from the site? no
How many cubic yards of soil will be imported/reused? 0-50
If greater than 1000 cubic yards will be imported, enter volume to be imported:
SECTION 2 – MATERIAL OTHER THAN SOIL
Is the material to be imported gravel, rock or stone? yes
Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes
Is this virgin material from a permitted mine or quarry? yes
Is this material recycled concrete or brick from a DEC registered processing facility? no
SECTION 3 - SAMPLING
Provide a brief description of the number and type of samples collected in the space below:
The material meets the requirement of DER-10, Section 5.4. No chemical testing is needed. A sieve analysis shows that the gradation of the material has less than 10% by weight passing a #80 sieve.
Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides. If the material meets requirements of DER 10 section 5.5 (other material), no chamical testing needed

SECTION 3 CONT'D - SAMPLING					
Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):					
N/A					
Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm. If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.					
SECTION 4 – SOURCE OF FILL					
Name of person providing fill and relationship to the source:					
Barrett Paving Materials, Inc. (Quarry Source)					
Location where fill was obtained:					
Litchfield, NY					
Identification of any state or local approvals as a fill source:					
DEC Mining Permit #60497					
If no approvals are available, provide a brief history of the use of the property that is the fill source:					
Virgin site. The material is used as coarse aggregate for the NYSDOT.					
Provide a list of supporting documentation included with this request:					
Attached particle size distribution report of the material.					

The information provided on this form is accurate and complete.



Digitally signed by Philip J, Reinsmith DN: cn=Philip J. Reinsmith, o=Environmental Waste Minimization, Inc., ou, email=preinsmith@ewmi.com, c=US Date: 2020.12.03 08:11:53 -05'00'

12-3-2020

Date

Signature

Philip Reinsmith

Print Name

Environmental Waste Minimization, Inc.

Firm



BARRETT PAVING MATERIALS INC.

Sieve Analysis

LOCATION:LitchfieldPRODUCT:#4A StoneDATE:5/6/2020TESTED BY:Jason Carnell

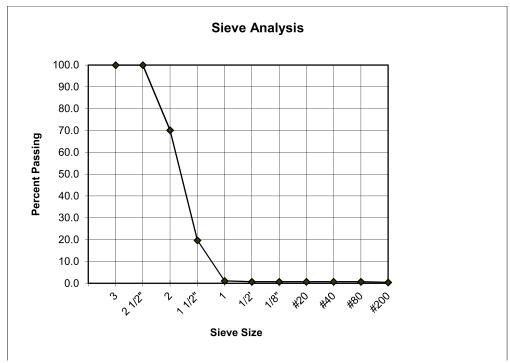
NYSMA QC/QA#:

COMMENTS

SIEVE	WEIGHT	PERCENT	PERCENT		
SIZE	RETAINED	RETAINED	PASSING		
3	0.0	0.0	100.0	100	
2 1/2"	0.0	0.0	100.0	90-100	
2	8.2	29.9	70.1		
1 1/2"	13.8	50.4	19.7	0-20	
1	5.1	18.6	1.1		
<u>1/2'</u>	0.1	0.4	0.7		
1/8"	0.0	0.0	0.7		
#20	0.0	0.0	0.7		
#40	0.0	0.0	0.7		
#80	0.0	0.0	0.7		
<u>#200</u>	0.1	0.4	0.4	0-2	
BIG PAN	0.2	0.7			
SMALL PAN	0.1	0.4			

BIG TOTAL (lb): 27.4 99.9

SMALLTOTAL (g): 0.2





BARRETT PAVING MATERIALS INC.

4530 Wetzel Road, Liverpool, New York 13090 - Phone: 315-652-4585

John Leitz,

I have attached our mining permit and a letter from the New York State Department of Transportation, in order to meet these two documents we have to be a clean site. Meaning that we are not a dump site for any hazardous materials, we have a quarry of hard durable virgin Limestone that we crush on site and sell to the construction industry.

CC:

T. Kotary File Michael J. LaBuz Sales Representative Barrett Paving Materials Inc.



ANDREW M. CUOMO Governor JOAN McDONALD Commissioner

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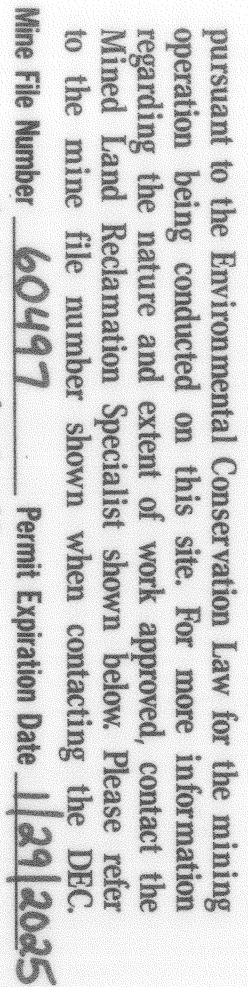
MJB/RLW File: 2- 12R

Cc: Tim Roemer, Region 2 Materials Engineer

Marly Bradley

Department of Environmental Conservation THE NEW YORK STATE





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NOTE: THIS IS NOT A PERMIT