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December 17, 2021

By Electronic Mail (Rachel.Savarie@dec.ny.gov)

Ms. Rachel Savarie
New York State Department of Environmental Conservation

Subject: Former Kerr-McGee/Tronox Federal Creosote Site, located in Rome, NY–
Lot 5E, 5D, Railroad Parcel Interim Remedial Measures Pre-Excavation
Documentation Sampling and Test-Pitting Report

Dear Ms. Savarie,

Greenfield Environmental Multistate Trust LLC, not individually but solely in its representative capacity as Trustee of the Multistate Environmental Response Trust (Multistate Trust), respectfully submits the attached Lot 5E, 5D, Railroad Parcel Interim Remedial Measures Pre-Excavation Documentation Sampling and Test-Pitting Report for the Former Kerr-McGee/Tronox Federal Creosote Site, located at 5900 Success Drive, Rome, NY for your review and comments.

If you have any questions or require additional information, please feel free to call me (850-228-9421) or email (ah@g-etg.com).

Sincerely,
Greenfield Environmental Multistate Trust LLC
Trustee of the Multistate Environmental Response Trust
By: Greenfield Environmental Trust Group, Inc., Member

Austin Hofmeister
Project Manager

Enclosure: Lot 5E, 5D, Railroad Parcel Interim Remedial Measures Pre-Excavation
Documentation Sampling and Test-Pitting Report

cc: Tasha Lewis, Multistate Trust
Claire Mondello, Haley & Aldrich of New York
Glenn White, Haley & Aldrich of New York

**LOT 5E, 5D, RAILROAD PARCEL INTERIM REMEDIAL MEASURES
PRE-EXCAVATION DOCUMENTATION SAMPLING AND TEST-PITTING REPORT**

**Former Kerr-McGee/Tronox Federal Creosote Site
Rome, New York
Portion of NYSDEC Site #633088**

Prepared for



**Greenfield Environmental Multistate Trust LLC
Trustee of the Multistate Environmental Response Trust**

Prepared by:

Haley & Aldrich of New York



For Submittal to:

New York State Department of Environmental Conservation

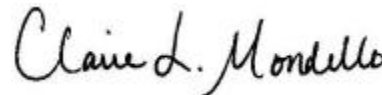
December 17, 2021

This Lot 5E, 5D, Railroad Parcel Interim Remedial Measures Pre-Excavation Documentation Sampling and Test-Pitting Report was prepared by Haley & Aldrich of New York (Haley & Aldrich), for Greenfield Environmental Multistate Trust LLC, Trustee of the Multistate Environmental Response Trust (the Multistate Trust).

Greenfield Multistate Environmental Trust LLC
Trustee of the Multistate Environmental Response Trust
By: Greenfield Environmental Trust Group, Inc., Member



Austin Hofmeister
Project Manager



Claire L. Mondello, CHMM
Haley & Aldrich of New York
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1. Introduction

This Pre-Excavation Documentation Sampling and Test-Pitting Report, prepared by Haley & Aldrich of New York (Haley & Aldrich), documents pre-construction Interim Remedial Measures (IRM) investigations conducted by the Greenfield Environmental Multistate Trust LLC, Trustee of the Multistate Environmental Response Trust (Multistate Trust), on portions of Lot 5E, 5D, and Railroad Parcel (Lot 5E/5D/RR) of the Former Kerr-McGee/Tronox Federal Creosote Site in the City of Rome, Oneida County, New York (the “Site”; Figure 1). Activities described herein were performed under the New York State Department of Environmental Conservation (NYSDEC) Inactive Hazardous Waste Disposal Site Remediation Program, pursuant to an Order on Consent and Administrative Settlement (NYSDEC Index No. CO 6-20180611-27), and in accordance with the NYSDEC-approved Revised Interim Remedial Measures Work Plan (IRM WP) dated August 20, 2021 (Haley & Aldrich, 2021). The work was completed in general conformance with NYSDEC Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10; NYSDEC, 2010).

The Multistate Trust assumed responsibility for the Site in connection with the global Tronox bankruptcy settlement approved by the United States Bankruptcy Court (Southern District of New York) on February 14, 2011. Pursuant to the settlement agreement, under which the Multistate Trust was established, the Multistate Trust is responsible for, among other things, implementing environmental actions at the Site consistent with its fiduciary obligations to the beneficiaries of the Multistate Trust (the Beneficiaries) and under the direction of NYSDEC, as the Lead Agency for the Site. The Beneficiaries of the Multistate Trust for the Site are the United States and the State of New York.

1.1 BACKGROUND

The Site is a portion of a 189+/- acre complex formerly owned and operated by the Federal Creosote Company from the early 1900s until 1959. Historical operations included the production and preservation treatment of wooden railroad ties with creosote. The property was later developed into an industrial park in the 1970s. The Multistate Trust took title to certain portions of the Site in 2011 and is responsible for managing and funding environmental actions at the Site pursuant to NYSDEC-approved work plans and budgets. The Site consists of multiple lots, including the “Railroad Parcel” (Figure 2). Five of the lots are associated with NYSDEC remedial programs. Lot 3A is designated as Site #633088. Lots designated as 3B, 5E, and a portion of the Railroad Parcel are subject to NYSDEC Order on Consent Site #633091. Lots 5D and 6 are designated as an offsite property to Site #633091. Lot 4 is associated with a separate NYSDEC Site #633087. To date, investigations have identified the presence of contaminants associated with former wood-treating operations across several of the Site’s lots. Interim Remedial Measure (IRM) evaluations and significant source removal actions on Lots 3A and 3B (parcels not owned by the Multistate Trust) have been previously conducted in accordance with NYSDEC-approved IRM work plans.

Lot 5E, Lot 5D and the Railroad Parcels (IRM Site) are shown on Figure 2, portions of which are the subject of this IRM. Lots 5E and 5D are owned by the Multistate Trust, while the Railroad Parcel is owned by the Genesee & Mohawk Valley Railroad. Additionally, National Grid has an electrical utility easement (National Grid Easement) on a portion of the IRM Site (Lot 5E) associated with 115 kilovolt (kV) overhead power lines. The IRM Site was previously investigated by Plumley Associates (Plumley) between 2002 and 2009 under the 2002 Voluntary Cleanup Agreement (VCA) entered into by, among others, Kerr-McGee Chemical, LLC (Kerr-McGee) and the NYSDEC. Additional investigations were

conducted by Haley & Aldrich on behalf of the Multistate Trust in 2017, 2018 and 2020. The current conceptual site model (CSM) for this IRM Site suggests that creosote from former wood-treating operations on Lots 3A, 3B and 5E migrated over the ground surface and through the subsurface, through the IRM Site and to the wetlands located on Lot 5D to the south.

The IRM Site currently consists of a gravel roadway, former railroad (tracks have been partially removed), wetlands, and wooded areas. Utility towers and overhead electrical lines traverse the southern portions of Lot 5E, while a former railroad traverses the Railroad Parcel. IRM activities documented in this report were focused in areas of Lot 5E, 5D and the Railroad Parcel.

1.2 PURPOSE

In accordance with the IRM WP, the IRM will consist of excavation and removal of soils and concrete debris from within the proposed IRM excavation area. The extent of the proposed excavation area is shown on Figures 2 and 3. The proposed excavation will be generally conducted between the ground surface and a confining clay layer between approximately 7 and 16.5 feet below ground surface (ft bgs). Depths to the confining clay layer vary throughout the IRM Site and are generally deepest in the northern portions of the IRM excavation area.

Prior to completing the review of the IRM WP, the NYSDEC approved the pre-excavation documentation sampling and test-pitting activities on September 28, 2021 (Appendix A). The overall objectives of the pre-excavation IRM activities, as described in the Revised Lot 5E/5D/RR IRM WP, included:

1. Assessing the approximate extents of apparent dried creosote piles observed along the southern boundary of the proposed IRM excavation.
2. Assessing the vertical and lateral extent of concrete structures observed south of the gravel access road and along the western side of the proposed IRM excavation as potential obstructions to sheet pile driving required during proposed remedial excavation activities.
3. Use observations from test pits and soil borings to further define the proposed IRM excavation limits.

In addition, per the September 28, 2021 NYSDEC letter, completion of the investigation portion of the work in advance of IRM WP approval was intended to help refine the scope of the proposed IRM and aid in producing a Class II cost estimate for the work.

2. Pre-Excavation Activities

2.1 PRE-EXCAVATION TEST PITS

Haley & Aldrich engaged Paragon Environmental Construction, Inc. of Brewerton, New York (Paragon) to excavate test pits in the vicinity of the proposed IRM excavation. On October 4, 2021, Paragon excavated 18 test pits within areas along the southern and western boundaries of the proposed IRM excavation (Figure 3). Test pitting was performed to assess the approximate extents of the apparent dried creosote piles observed along the southern boundary of the proposed IRM excavation, and to assess the concrete structures south of the gravel access road and along the western side of the proposed IRM excavation. Brush and trees less than 3-inches diameter at breast height (DBH) were selectively cleared to enable excavator access to test pit locations. Test pits were excavated using a Kobelco 80CS excavator to depths ranging between 3 and 8 ft bgs. Test pits were backfilled to-grade with excavated materials upon completion.

2.1.1 Dried Creosote Piles

Paragon excavated eleven (11) test pits (E1 through E11; see Figure 3). During excavation, creosote saturated soils and non-aqueous phase creosote were observed between 0 and 3 feet below the top layer of vegetation, soil, and organic matter in test pits E3, E8, E9, E10, and E11. Creosote saturation was not observed in test pits E1, E2, E4, E5, E6, and E7. Pictures of representative creosote saturation are provided in Appendix C.

2.1.2 Concrete Structure

Paragon excavated TP-1 adjacent to the concrete structure south of the gravel access road and along the western side of the proposed IRM excavation. TP-1 excavation activities indicate the concrete structure has approximate dimensions of 6 ft x 6 ft x 9 ft deep. Surficial creosote saturation was observed in TP-1.

Test pits TP-2 through TP-7 were excavated immediately south, and along a transect extending approximately 125 feet west of the concrete structure. Observations from test pits TP-2 through TP-7 identified a 0.1 to 0.3 ft thick layer of creosote saturation at the interface between overlying fill/sands and the clay layer. The presence of this thin layer of creosote saturation at the sand/clay interface appears to be present throughout the Site.

2.2 PRE-EXCAVATION SOIL BORINGS AND SIDEWALL DOCUMENTATION SAMPLING

Paragon advanced soil borings using direct-push drilling methods for collection of documentation samples from the perimeter of the proposed IRM excavation limits, approximately every 30 feet, in accordance with the IRM WP, as shown on Figure 3. Soil boring locations, as presented in the IRM WP, were located and flagged onsite by Hoffman Land Surveying & Geomatics prior to soil boring advancement.

Soil borings were advanced to the clay layer, encountered approximately 6.5 and 13.3 feet bgs, using a direct-push drill rig between October 6 and October 7, 2021. Recovered soils were screened visually for evidence of creosote saturation and logged using procedures outlined in the 2017 Supplemental Investigation of Summary Report (Haley & Aldrich, 2018a). Soil boring logs are included in Appendix B.

Creosote saturation was identified in fourteen (14) soil borings located along the perimeter of the proposed IRM excavation area (see Figure 4). In accordance with the IRM WP, step-out borings were advanced at locations where creosote saturation was identified, until saturated conditions were no longer observed with the following exceptions shown on Figure 4 where creosote saturation was observed but a step out boring were not advanced:

- Boring location HA-DOC5E-24
- Borings located at and south of the tree line beyond the south side of the former railroad tracks

Regarding boring location HA-DOC5E-24, per correspondence with the NYSDEC dated October 7, 2021, step-out borings were not advanced at boring locations where *de minimis* creosote saturation (<0.2 ft thickness) was observed at the interface between overlying sands and the confining clay layer.

The deviations to the sampling methods south of the tree line were due to the widespread observation of creosote saturation in test pits (see section 2.1.1). Given those observations, the Multistate Trust proposed (via email; October 7, 2021) modifying the documentation sampling plan presented in the IRM WP as follows:

- Advance and sample soil borings north of the tree line (Figure 4; photo 13 in Appendix C) in accordance with the procedures outlined in the IRM WP,
- Advance “visual assessment only” documentation soil borings along the perimeter of the original proposed IRM excavation area south of the tree line, and eliminate “step-out” borings/documentation soil sampling at these boring locations, and
- Collect documentation samples from borings advanced generally along the tree line and immediately south of the former railroad bed to establish a potential alternative excavation boundary at a location north of the tree line. Documentation samples would be collected from these additional borings regardless of the presence of creosote saturation.

On October 7, 2021, the NYSDEC approved the proposed documentation sampling plan modifications (Appendix A). In accordance with the IRM WP and subsequent October 7, 2021 IRM WP modifications, 22 sidewall documentation samples were collected from soil borings advanced around the perimeter of the IRM excavation boundary (Figures 3 and 4). Samples were collected from either the most visually contaminated interval of the boring or from the apparent top of the water table, if no visual contamination was observed. Samples were analyzed for target compounds list (TCL) volatile organic compounds (VOCs; Method 8260) and TCL semi-volatile organic compounds (SVOCs; Method 8270), in accordance with the sampling and analysis plan set forth in the IRM WP. Documentation sample analytical results are provided in Table I. A narrative summary of the data results is provided in Section 2.3, below.

2.3 SIDEWALL DOCUMENTATION SAMPLE DATA VALIDATION AND SUMMARY

Documentation samples were validated by Haley & Aldrich, in accordance with the IRM WP. Data reports and data usability summary reports are included in Appendix D. Table I includes a summary of sidewall documentation sample results and compares the sample results to the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) restricted for commercial and industrial use (NYSDEC, 2006; NYSDEC, 2010). While the SCOs for commercial and industrial use are presented as comparison criteria for the documentation samples in Table I, these criteria are not remedial objectives for the IRM.

Documentation sample results indicate several high molecular weight PAHs were detected above either the commercial or industrial SCOs in six of the sidewall samples, which are consistent with industrial fill and other investigative documentation samples collected during prior IRMs on Lot 3A and Lot 3B. VOCs were not detected above commercial or industrial SCOs.

References

1. Haley & Aldrich of New York, (2021) Revised Lot 5E, 5D, Railroad Parcel Interim Remedial Measures Work Plan, Former Federal Creosote Site, Rome, New York, dated August 20, 2021.
2. New York State Department of Environmental Conservation, (2006). 6 NYCRR Part 375 Environmental Remediation Programs. Division of Environmental Remediation, December 2006.
3. New York State Department of Environmental Conservation, (2010). DER-10 Technical Guidance for Site Investigation and Remediation. Division of Environmental Remediation, May 2010.
4. NYSDEC Correspondence, Lot 5E/5D/RR Parcel IRM Work Plan – Pre-IRM Sampling Activities, 28 September 2021.
5. NYSDEC Correspondence, Lot 5E/5D/RR Parcel IRM Work Plan Approval, 13 October 2021.
6. NYSDEC Correspondence, Multistate Trust: Rome – 10/6/21 Field Update – Modification to Work Plan Approval, 7 October 2021.

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TABLE

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-01B	HA-DOC5E-02	HA-DOC5E-03C	HA-DOC5E-03C	HA-DOC5E-05	HA-DOC5E-07	HA-DOC5E-08	HA-DOC5E-09
Sample Date	NYSDEC	NYSDEC	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021
Sample Type	Part 375	Part 375	N	N	N	FD	N	N	N	N
Sample Depth (bgs)	Commercial	Industrial	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	3 - 4 (ft)	5 - 6 (ft)	4 - 5 (ft)	4 - 5 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-01-211006-1040	DOC5E-02-211006-1010	DOC5E-03-211007-1600	4125-211007-0002	DOC5E-05-211006-1130	DOC5E-07-211006-1245	DOC5E-08-211006-1320	DOC5E-09-211006-1340
Other										
Total Solids (%)	-	-	71.3	79.4	79.6	79.8	81.9	79	79.3	82.7
Semi-Volatile Organic Compounds (ug/kg)										
1,2,4,5-Tetrachlorobenzene	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2,2'-oxybis(1-Chloropropane)	-	-	ND (2700)	ND (2500)	ND (2500)	ND (4900)	ND (240)	ND (1200)	ND (250)	ND (240)
2,3,4,6-Tetrachlorophenol	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2,4,5-Trichlorophenol	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2,4,6-Trichlorophenol	-	-	ND (1400)	ND (1200)	ND (1200)	ND (2500)	ND (120)	ND (610)	ND (120)	ND (120)
2,4-Dichlorophenol	-	-	ND (2000)	ND (1800)	ND (1800)	ND (3700)	ND (180)	ND (920)	ND (190)	ND (180)
2,4-Dimethylphenol	-	-	ND (2300)	710 J	820 J	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2,4-Dinitrophenol	-	-	ND (11000)	ND (9800)	ND (9900)	ND (20000)	ND (980)	ND (4900)	ND (1000)	ND (950)
2,4-Dinitrotoluene	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2,6-Dinitrotoluene	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2-Chloronaphthalene	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2-Chlorophenol	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2-Methylnaphthalene	-	-	ND (2700)	18000	100000 J	19000 J	ND (240)	90000	97 J	64 J
2-Methylphenol (o-Cresol)	500000	1000000	ND (2300)	440 J	430 J	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2-Nitroaniline	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
2-Nitrophenol	-	-	ND (4900)	ND (4400)	ND (4500)	ND (8900)	ND (440)	ND (2200)	ND (450)	ND (430)
3&4-Methylphenol	-	-	ND (3300)	1200 J	1200 J+	1000 J	ND (290)	ND (1500)	ND (300)	ND (280)
3,3'-Dichlorobenzidine	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
3-Nitroaniline	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
4,6-Dinitro-2-methylphenol	-	-	ND (5900)	ND (5300)	ND (5400)	ND (11000)	ND (530)	ND (2600)	ND (540)	ND (510)
4-Bromophenyl phenyl ether	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
4-Chloro-3-methylphenol	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
4-Chloroaniline	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
4-Chlorophenyl phenyl ether	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
4-Nitroaniline	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
4-Nitrophenol	-	-	ND (3200)	ND (2900)	ND (2900)	ND (5800)	ND (280)	ND (1400)	ND (290)	ND (280)
Acenaphthene	500000	1000000	680 J	30000	110000 J	23000 J	34 J	46000	48 J	40 J
Acenaphthylene	500000	1000000	440 J	16000	29000	18000	ND (160)	2400	ND (170)	ND (160)
Acetophenone	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Anthracene	500000	1000000	1600	49000	120000 J	68000 J	ND (120)	19000	ND (120)	ND (120)
Atrazine	-	-	ND (1800)	ND (1600)	ND (1600)	ND (3300)	ND (160)	ND (820)	ND (170)	ND (160)
Benzaldehyde	-	-	ND (3000)	ND (2700)	ND (2700)	ND (5400)	ND (270)	ND (1400)	ND (270)	ND (260)
Benzo(a)anthracene	5600	11000	3300	64000 [AB]	97000 [AB]	90000 [AB]	35 J	12000 [AB]	ND (120)	ND (120)
Benzo(a)pyrene	1000	1100	3000 [AB]	45000 [AB]	59000 [AB]	66000 [AB]	ND (160)	6100 [AB]	ND (170)	ND (160)
Benzo(b)fluoranthene	5600	11000	3700	70000 [AB]	85000 [AB]	100000 [AB]	ND (120)	9000 [A]	ND (120)	ND (120)
Benzo(g,h,i)perylene	500000	1000000	1800	22000	31000	33000	ND (160)	2400	ND (170)	ND (160)
Benzo(k)fluoranthene	56000	110000	1300 J	24000	34000	32000	ND (120)	3200	ND (120)	ND (120)
Biphenyl	-	-	ND (5200)	2900 J	29000 J	5000 J	ND (460)	15000	ND (470)	ND (450)
bis(2-Chloroethoxy)methane	-	-	ND (2500)	ND (2200)	ND (2200)	ND (4400)	ND (220)	ND (1100)	ND (220)	ND (210)
bis(2-Chloroethyl)ether	-	-	ND (2000)	ND (1800)	ND (1800)	ND (3700)	ND (180)	ND (920)	ND (190)	ND (180)
bis(2-Ethylhexyl)phthalate	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Butyl benzylphthalate	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Caprolactam	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Carbazole	-	-	620 J	19000	52000 J	25000 J	ND (200)	2100	29 J	120 J
Chrysene	56000	110000	3100	63000 [A]	100000 [A]	87000 [A]	31 J	10000	ND (120)	ND (120)
Dibenz(a,h)anthracene	560	1100	490 J	6400 [AB]	10000 [AB]	10000 [AB]	ND (120)	790 [A]	ND (120)	ND (120)
Dibenzofuran	350000	1000000	500 J	25000	100000 J	26000 J	23 J	36000	42 J	33 J
Diethyl phthalate	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Dimethyl phthalate	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-01B	HA-DOC5E-02	HA-DOC5E-03C	HA-DOC5E-03C	HA-DOC5E-05	HA-DOC5E-07	HA-DOC5E-08	HA-DOC5E-09
Sample Date	NYSDEC	NYSDEC	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021
Sample Type	Part 375	Part 375	N	N	N	FD	N	N	N	N
Sample Depth (bgs)	Commercial	Industrial	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	3 - 4 (ft)	5 - 6 (ft)	4 - 5 (ft)	4 - 5 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-01-211006-1040	DOC5E-02-211006-1010	DOC5E-03-211007-1600	4125-211007-0002	DOC5E-05-211006-1130	DOC5E-07-211006-1245	DOC5E-08-211006-1320	DOC5E-09-211006-1340
Di-n-butylphthalate	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Di-n-octyl phthalate	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Fluoranthene	500000	1000000	7200	220000	290000	260000	120	37000	78 J	ND (120)
Fluorene	500000	1000000	750 J	51000	150000 J	42000 J	39 J	42000	51 J	55 J
Hexachlorobenzene	6000	12000	ND (1400)	ND (1200)	ND (1200)	ND (2500)	ND (120)	ND (610)	ND (120)	ND (120)
Hexachlorobutadiene	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
Hexachlorocyclopentadiene	-	-	ND (6500)	ND (5900)	ND (5900)	ND (12000)	ND (580)	ND (2900)	ND (590)	ND (560)
Hexachloroethane	-	-	ND (1800)	ND (1600)	ND (1600)	ND (3300)	ND (160)	ND (820)	ND (170)	ND (160)
Indeno(1,2,3-cd)pyrene	5600	11000	2400	25000 [AB]	40000 [AB]	38000 [AB]	ND (160)	3000	ND (170)	ND (160)
Isophorone	-	-	ND (2000)	ND (1800)	ND (1800)	ND (3700)	ND (180)	ND (920)	ND (190)	ND (180)
Naphthalene	500000	1000000	430 J	81000	260000 J	56000 J	53 J	160000	480	650
Nitrobenzene	-	-	ND (2000)	ND (1800)	ND (1800)	ND (3700)	ND (180)	ND (920)	ND (190)	ND (180)
N-Nitrosodi-n-propylamine	-	-	ND (2300)	ND (2000)	ND (2100)	ND (4100)	ND (200)	ND (1000)	ND (210)	ND (200)
N-Nitrosodiphenylamine	-	-	ND (1800)	ND (1600)	ND (1600)	ND (3300)	ND (160)	ND (820)	ND (170)	ND (160)
Pentachlorophenol	6700	55000	ND (1800)	ND (1600)	ND (1600)	ND (3300)	ND (160)	ND (820)	ND (170)	ND (160)
Phenanthrene	500000	1000000	6100	200000	400000 J	180000 J	160	75000	94 J	47 J
Phenol	500000	1000000	ND (2300)	770 J	610 J+	620 J	ND (200)	ND (1000)	ND (210)	ND (200)
Pyrene	500000	1000000	6100	160000	210000	190000	86 J	27000	39 J	ND (120)
Volatile Organic Compounds (ug/kg)										
1,1,1-Trichloroethane	500000	1000000	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
1,1,2,2-Tetrachloroethane	-	-	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
1,1,2-Trichloroethane	-	-	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
1,1-Dichloroethane	240000	480000	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
1,1-Dichloroethene	500000	1000000	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
1,2,3-Trichlorobenzene	-	-	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
1,2,4-Trichlorobenzene	-	-	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
1,2-Dibromo-3-chloropropane (DBCP)	-	-	ND (3.6)	ND (3)	ND (190)	ND (150)	ND (2.3)	ND (170)	ND (2)	ND (1.9)
1,2-Dibromoethane (Ethylene Dibromide)	-	-	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
1,2-Dichlorobenzene	500000	1000000	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
1,2-Dichloroethane	30000	60000	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
1,2-Dichloropropane	-	-	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
1,3-Dichlorobenzene	280000	560000	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
1,4-Dichlorobenzene	130000	250000	ND (2.4)	ND (2)	12 J	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
1,4-Dioxane	130000	250000	ND (97)	ND (80)	ND (5000)	ND (4000)	ND (61)	ND (4600)	ND (52)	ND (51)
2-Butanone (Methyl Ethyl Ketone)	500000	1000000	14	ND (10)	150 J+	ND (500)	ND (7.6)	ND (570)	ND (6.6)	ND (6.4)
2-Hexanone	-	-	ND (12)	ND (10)	ND (620)	ND (500)	ND (7.6)	ND (570)	ND (6.6)	ND (6.4)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	-	ND (12)	ND (10)	ND (620)	ND (500)	ND (7.6)	ND (570)	ND (6.6)	ND (6.4)
Acetone	500000	1000000	39	14	ND (620)	ND (500)	ND (7.6)	ND (570)	4.2 J	ND (6.4)
Benzene	44000	89000	1.5	2.2	97 J+	38 J	ND (0.38)	ND (28)	2.6	14
Bromodichloromethane	-	-	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
Bromoform	-	-	ND (4.8)	ND (4)	ND (250)	ND (200)	ND (3)	ND (230)	ND (2.6)	ND (2.6)
Bromomethane (Methyl Bromide)	-	-	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
Carbon disulfide	-	-	ND (12)	ND (10)	ND (620)	ND (500)	ND (7.6)	ND (570)	ND (6.6)	ND (6.4)
Carbon tetrachloride	22000	44000	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
Chlorobenzene	500000	1000000	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
Chlorobromomethane	-	-	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
Chloroethane	-	-	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
Chloroform (Trichloromethane)	350000	700000	ND (1.8)	ND (1.5)	ND (93)	ND (76)	ND (1.1)	ND (86)	ND (0.98)	ND (0.96)
Chloromethane (Methyl Chloride)	-	-	ND (4.8)	ND (4)	ND (250)	ND (200)	ND (3)	ND (230)	ND (2.6)	ND (2.6)
cis-1,2-Dichloroethene	500000	1000000	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
cis-1,3-Dichloropropene	-	-	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
Cyclohexane	-	-	ND (12)	0.72 J	ND (620)	ND (500)	ND (7.6)	ND (570)	ND (6.6)	ND (6.4)

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-01B	HA-DOC5E-02	HA-DOC5E-03C	HA-DOC5E-03C	HA-DOC5E-05	HA-DOC5E-07	HA-DOC5E-08	HA-DOC5E-09
Sample Date	NYSDEC	NYSDEC	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021
Sample Type	Part 375	Part 375	N	N	N	FD	N	N	N	N
Sample Depth (bgs)	Commercial	Industrial	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	3 - 4 (ft)	5 - 6 (ft)	4 - 5 (ft)	4 - 5 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-01-211006-1040	DOC5E-02-211006-1010	DOC5E-03-211007-1600	4125-211007-0002	DOC5E-05-211006-1130	DOC5E-07-211006-1245	DOC5E-08-211006-1320	DOC5E-09-211006-1340
Dibromochloromethane	-	-	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
Dichlorodifluoromethane (CFC-12)	-	-	ND (12)	ND (10)	ND (620)	ND (500)	ND (7.6)	ND (570)	ND (6.6)	ND (6.4)
Ethylbenzene	390000	780000	4.3	11	2600 J	540 J	ND (0.76)	710	7.6	61
Isopropylbenzene (Cumene)	-	-	0.15 J	4.2	1000 J	180 J	ND (0.76)	680	4.6	7.6
m,p-Xylenes	-	-	15	28	5700 J	1200 J	ND (1.5)	2600	22	37
Methyl acetate	-	-	ND (4.8)	ND (4)	280	130 J	ND (3)	ND (230)	ND (2.6)	ND (2.6)
Methyl Tert Butyl Ether (MTBE)	500000	1000000	ND (2.4)	ND (2)	ND (120)	ND (100)	ND (1.5)	ND (110)	ND (1.3)	ND (1.3)
Methylcyclohexane	-	-	1.2 J	1.1 J	120 J	54 J	ND (3)	ND (230)	ND (2.6)	ND (2.6)
Methylene chloride	500000	1000000	ND (6)	ND (5)	ND (310)	ND (250)	ND (3.8)	ND (280)	ND (3.3)	ND (3.2)
o-Xylene	-	-	4.5	22	3100 J	620 J	ND (0.76)	940	9.2	42
Styrene	-	-	ND (1.2)	0.46 J	160 J	ND (50) J	ND (0.76)	28 J	ND (0.66)	ND (0.64)
Tetrachloroethene	150000	300000	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
Toluene	500000	1000000	1.1 J	2.6	370 J	130 J	ND (0.76)	ND (57)	3.1	1.6
trans-1,2-Dichloroethene	500000	1000000	ND (1.8)	ND (1.5)	ND (93)	ND (76)	ND (1.1)	ND (86)	ND (0.98)	ND (0.96)
trans-1,3-Dichloropropene	-	-	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)
Trichloroethene	200000	400000	ND (0.6)	ND (0.5)	ND (31)	ND (25)	ND (0.38)	ND (28)	ND (0.33)	ND (0.32)
Trichlorofluoromethane (CFC-11)	-	-	ND (4.8)	ND (4)	ND (250)	ND (200)	ND (3)	ND (230)	ND (2.6)	ND (2.6)
Trifluorotrichloroethane (Freon 113)	-	-	ND (4.8)	ND (4)	ND (250)	ND (200)	ND (3)	ND (230)	ND (2.6)	ND (2.6)
Vinyl chloride	13000	27000	ND (1.2)	ND (1)	ND (62)	ND (50)	ND (0.76)	ND (57)	ND (0.66)	ND (0.64)

- Notes:**
- Data shown in **red** exceed one or more of the following New York State Department of Environmental Conservation Part 375 Soil Criteria
[A] - Commercial
[B] - Industrial
 - ND = Not detected above detection limit shown
J = Estimated value or reporting limit (for NDs)
J+= Estimated result biased high
 - Results in **bold** were detected.
 - ug/kg = micrograms per kilogram
 - Data has been validated by Haley & Aldrich of New York.
 - Sample Types:
N - Normal Environmental Sample
FD - Field Duplicate

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-10C	HA-DOC5E-11B	HA-DOC5E-12	HA-DOC5E-13	HA-DOC5E-13	HA-DOC5E-16	HA-DOC5E-17	HA-DOC5E-18
Sample Date	NYSDEC	NYSDEC	10/07/2021	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
Sample Type	Part 375	Part 375	N	N	N	N	FD	N	N	N
Sample Depth (bgs)	Commercial	Industrial	4 - 5 (ft)	3 - 4 (ft)	3 - 4 (ft)	6 - 7 (ft)	6 - 7 (ft)	3 - 4 (ft)	3 - 4 (ft)	3 - 4 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-10-211007-1500	DOC5E-11-211006-1415	DOC5E-12-211006-1435	DOC5E-13-211007-1445	4125-211007-0001	DOC5E-16-211007-0740	DOC5E-17-211007-0800	DOC5E-18-211007-0815
Other										
Total Solids (%)	-	-	81.3	79.6	79.1	82.5	81	71.8	82	82.9
Semi-Volatile Organic Compounds (ug/kg)										
1,2,4,5-Tetrachlorobenzene	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2,2'-oxybis(1-Chloropropane)	-	-	ND (240)	ND (250)	ND (250)	ND (240)	ND (240)	ND (2700)	ND (1200)	ND (240)
2,3,4,6-Tetrachlorophenol	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2,4,5-Trichlorophenol	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2,4,6-Trichlorophenol	-	-	ND (120)	ND (120)	ND (120)	ND (120)	ND (120)	ND (1400)	ND (610)	ND (120)
2,4-Dichlorophenol	-	-	ND (180)	ND (190)	ND (190)	ND (180)	ND (180)	ND (2000)	ND (910)	ND (180)
2,4-Dimethylphenol	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2,4-Dinitrophenol	-	-	ND (970)	ND (1000)	ND (1000)	ND (960)	ND (960)	ND (11000)	ND (4800)	ND (950)
2,4-Dinitrotoluene	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2,6-Dinitrotoluene	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2-Chloronaphthalene	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2-Chlorophenol	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2-Methylnaphthalene	-	-	ND (240)	ND (250)	ND (250)	44 J	28 J	3600	7000	ND (240)
2-Methylphenol (o-Cresol)	500000	1000000	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2-Nitroaniline	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
2-Nitrophenol	-	-	ND (440)	ND (450)	ND (450)	ND (430)	ND (430)	ND (4900)	ND (2200)	ND (430)
3&4-Methylphenol	-	-	ND (290)	ND (300)	ND (300)	ND (290)	ND (290)	ND (3300)	ND (1400)	ND (280)
3,3'-Dichlorobenzidine	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
3-Nitroaniline	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
4,6-Dinitro-2-methylphenol	-	-	ND (530)	ND (540)	ND (540)	ND (520)	ND (520)	ND (5900)	ND (2600)	ND (520)
4-Bromophenyl phenyl ether	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
4-Chloro-3-methylphenol	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
4-Chloroaniline	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
4-Chlorophenyl phenyl ether	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
4-Nitroaniline	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
4-Nitrophenol	-	-	ND (280)	ND (290)	ND (290)	ND (280)	ND (280)	ND (3200)	ND (1400)	ND (280)
Acenaphthene	500000	1000000	ND (160)	ND (170)	ND (170)	ND (160)	78 J	2500	13000	94 J
Acenaphthylene	500000	1000000	ND (160)	ND (170)	ND (170)	ND (160)	77 J	3900	ND (810)	ND (160)
Acetophenone	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Anthracene	500000	1000000	ND (120)	ND (120)	ND (120)	ND (120)	160	8200	11000	46 J
Atrazine	-	-	ND (160)	ND (170)	ND (170)	ND (160)	ND (160)	ND (1800)	ND (810)	ND (160)
Benzaldehyde	-	-	ND (270)	ND (280)	ND (270)	ND (260)	ND (260)	ND (3000)	ND (1300)	ND (260)
Benzo(a)anthracene	5600	11000	ND (120)	ND (120)	ND (120)	ND (120)	120	35000 [AB]	1600	27 J
Benzo(a)pyrene	1000	1100	ND (160)	ND (170)	ND (170)	ND (160)	95 J	19000 [AB]	580 J	ND (160)
Benzo(b)fluoranthene	5600	11000	ND (120)	ND (120)	ND (120)	ND (120)	120	36000 [AB]	710	ND (120)
Benzo(g,h,i)perylene	500000	1000000	ND (160)	ND (170)	ND (170)	ND (160)	77 J	8400	190 J	ND (160)
Benzo(k)fluoranthene	56000	110000	ND (120)	ND (120)	ND (120)	ND (120)	39 J	12000	260 J	ND (120)
Biphenyl	-	-	ND (460)	ND (480)	ND (470)	ND (460)	ND (460)	ND (5200)	3800	ND (450)
bis(2-Chloroethoxy)methane	-	-	ND (220)	ND (220)	ND (220)	ND (220)	ND (220)	ND (2500)	ND (1100)	ND (210)
bis(2-Chloroethyl)ether	-	-	ND (180)	ND (190)	ND (190)	ND (180)	ND (180)	ND (2000)	ND (910)	ND (180)
bis(2-Ethylhexyl)phthalate	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Butyl benzylphthalate	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Caprolactam	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Carbazole	-	-	24 J	45 J	ND (210)	43 J	91 J	5500	1600	56 J
Chrysene	56000	110000	ND (120)	ND (120)	ND (120)	ND (120)	100 J	39000	1500	22 J
Dibenz(a,h)anthracene	560	1100	ND (120)	ND (120)	ND (120)	ND (120)	ND (120)	2900 [AB]	ND (610)	ND (120)
Dibenzofuran	350000	1000000	ND (200)	ND (210)	ND (210)	ND (200)	65 J	2800	11000	95 J
Diethyl phthalate	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Dimethyl phthalate	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-10C	HA-DOC5E-11B	HA-DOC5E-12	HA-DOC5E-13	HA-DOC5E-13	HA-DOC5E-16	HA-DOC5E-17	HA-DOC5E-18
Sample Date	NYSDEC	NYSDEC	10/07/2021	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
Sample Type	Part 375	Part 375	N	N	N	N	FD	N	N	N
Sample Depth (bgs)	Commercial	Industrial	4 - 5 (ft)	3 - 4 (ft)	3 - 4 (ft)	6 - 7 (ft)	6 - 7 (ft)	3 - 4 (ft)	3 - 4 (ft)	3 - 4 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-10-211007-1500	DOC5E-11-211006-1415	DOC5E-12-211006-1435	DOC5E-13-211007-1445	4125-211007-0001	DOC5E-16-211007-0740	DOC5E-17-211007-0800	DOC5E-18-211007-0815
Di-n-butylphthalate	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Di-n-octyl phthalate	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Fluoranthene	500000	1000000	26 J	ND (120)	ND (120)	ND (120) J	390 J	84000	11000	97 J
Fluorene	500000	1000000	ND (200)	22 J	ND (210)	ND (200)	110 J	3800	14000	94 J
Hexachlorobenzene	6000	12000	ND (120)	ND (120)	ND (120)	ND (120)	ND (120)	ND (1400)	ND (610)	ND (120)
Hexachlorobutadiene	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Hexachlorocyclopentadiene	-	-	ND (580)	ND (600)	ND (590)	ND (570)	ND (570)	ND (6500)	ND (2900)	ND (570)
Hexachloroethane	-	-	ND (160)	ND (170)	ND (170)	ND (160)	ND (160)	ND (1800)	ND (810)	ND (160)
Indeno(1,2,3-cd)pyrene	5600	11000	ND (160)	ND (170)	ND (170)	ND (160)	110 J	12000^[A,B]	210 J	61 J
Isophorone	-	-	ND (180)	ND (190)	ND (190)	ND (180)	ND (180)	ND (2000)	ND (910)	ND (180)
Naphthalene	500000	1000000	ND (200)	310	ND (210)	330 J	98 J	56000	6500	54 J
Nitrobenzene	-	-	ND (180)	ND (190)	ND (190)	ND (180)	ND (180)	ND (2000)	ND (910)	ND (180)
N-Nitrosodi-n-propylamine	-	-	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
N-Nitrosodiphenylamine	-	-	ND (160)	ND (170)	ND (170)	ND (160)	ND (160)	ND (1800)	ND (810)	ND (160)
Pentachlorophenol	6700	55000	ND (160)	ND (170)	ND (170)	ND (160)	ND (160)	ND (1800)	ND (810)	ND (160)
Phenanthrene	500000	1000000	28 J	30 J	ND (120)	39 J	460 J	32000	31000	270
Phenol	500000	1000000	ND (200)	ND (210)	ND (210)	ND (200)	ND (200)	ND (2300)	ND (1000)	ND (200)
Pyrene	500000	1000000	ND (120)	ND (120)	ND (120)	ND (120) J	280 J	68000	7400	70 J
Volatile Organic Compounds (ug/kg)										
1,1,1-Trichloroethane	500000	1000000	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
1,1,2,2-Tetrachloroethane	-	-	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
1,1,2-Trichloroethane	-	-	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
1,1-Dichloroethane	240000	480000	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
1,1-Dichloroethene	500000	1000000	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
1,2,3-Trichlorobenzene	-	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
1,2,4-Trichlorobenzene	-	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
1,2-Dibromo-3-chloropropane (DBCP)	-	-	ND (2.2)	ND (2.3)	ND (2.3)	ND (1.9)	ND (2.1)	ND (150)	ND (2.1)	ND (2.2)
1,2-Dibromoethane (Ethylene Dibromide)	-	-	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
1,2-Dichlorobenzene	500000	1000000	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
1,2-Dichloroethane	30000	60000	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
1,2-Dichloropropane	-	-	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
1,3-Dichlorobenzene	280000	560000	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
1,4-Dichlorobenzene	130000	250000	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
1,4-Dioxane	130000	250000	ND (59)	ND (62)	ND (61)	ND (52)	ND (56)	ND (4000)	ND (57)	ND (60)
2-Butanone (Methyl Ethyl Ketone)	500000	1000000	ND (7.4)	ND (7.7)	ND (7.6)	ND (6.5)	ND (7)	ND (500)	ND (7.1)	ND (7.5)
2-Hexanone	-	-	ND (7.4)	ND (7.7)	ND (7.6)	ND (6.5)	ND (7)	ND (500)	ND (7.1)	ND (7.5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	-	ND (7.4)	ND (7.7)	ND (7.6)	ND (6.5)	ND (7)	ND (500)	ND (7.1)	ND (7.5)
Acetone	500000	1000000	6.5 J	5.1 J	10	ND (6.5)	ND (7)	ND (500)	14 J+	7.2 J
Benzene	44000	89000	0.35 J	9	ND (0.38)	42 J	74 J	770	5.9 J+	0.72
Bromodichloromethane	-	-	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
Bromoform	-	-	ND (3)	ND (3.1)	ND (3)	ND (2.6)	ND (2.8)	ND (200)	ND (2.8)	ND (3)
Bromomethane (Methyl Bromide)	-	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
Carbon disulfide	-	-	ND (7.4)	ND (7.7)	ND (7.6)	ND (6.5)	ND (7)	ND (500)	ND (7.1)	ND (7.5)
Carbon tetrachloride	22000	44000	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
Chlorobenzene	500000	1000000	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
Chlorobromomethane	-	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
Chloroethane	-	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
Chloroform (Trichloromethane)	350000	700000	ND (1.1)	ND (1.2)	ND (1.1)	ND (0.97)	ND (1)	ND (74)	ND (1.1)	ND (1.1)
Chloromethane (Methyl Chloride)	-	-	ND (3)	ND (3.1)	ND (3)	ND (2.6)	ND (2.8)	ND (200)	ND (2.8)	ND (3)
cis-1,2-Dichloroethene	500000	1000000	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
cis-1,3-Dichloropropene	-	-	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
Cyclohexane	-	-	ND (7.4)	ND (7.7)	ND (7.6)	ND (6.5)	ND (7)	ND (500)	0.53 J+	ND (7.5)

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-10C	HA-DOC5E-11B	HA-DOC5E-12	HA-DOC5E-13	HA-DOC5E-13	HA-DOC5E-16	HA-DOC5E-17	HA-DOC5E-18
Sample Date	NYSDEC	NYSDEC	10/07/2021	10/06/2021	10/06/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
Sample Type	Part 375	Part 375	N	N	N	N	FD	N	N	N
Sample Depth (bgs)	Commercial	Industrial	4 - 5 (ft)	3 - 4 (ft)	3 - 4 (ft)	6 - 7 (ft)	6 - 7 (ft)	3 - 4 (ft)	3 - 4 (ft)	3 - 4 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-10-211007-1500	DOC5E-11-211006-1415	DOC5E-12-211006-1435	DOC5E-13-211007-1445	4125-211007-0001	DOC5E-16-211007-0740	DOC5E-17-211007-0800	DOC5E-18-211007-0815
Dibromochloromethane	-	-	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
Dichlorodifluoromethane (CFC-12)	-	-	ND (7.4)	ND (7.7)	ND (7.6)	ND (6.5)	ND (7)	ND (500)	ND (7.1)	ND (7.5)
Ethylbenzene	390000	780000	0.2 J	39	ND (0.76)	26 J	45 J	380	110 J+	1.8
Isopropylbenzene (Cumene)	-	-	ND (0.74)	7.2	ND (0.76)	2.2 J	4.3 J	220	200 J+	1
m,p-Xylenes	-	-	ND (1.5)	49	ND (1.5)	40	66	340	170 J+	0.69 J
Methyl acetate	-	-	ND (3)	ND (3.1)	ND (3)	ND (2.6)	ND (2.8)	ND (200)	ND (2.8)	ND (3)
Methyl Tert Butyl Ether (MTBE)	500000	1000000	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.3)	ND (1.4)	ND (99)	ND (1.4)	ND (1.5)
Methylcyclohexane	-	-	ND (3)	ND (3.1)	ND (3)	ND (2.6)	ND (2.8)	ND (200)	7.4 J+	ND (3)
Methylene chloride	500000	1000000	ND (3.7)	ND (3.8)	ND (3.8)	ND (3.2)	ND (3.5)	ND (250)	ND (3.5)	ND (3.7)
o-Xylene	-	-	ND (0.74)	24	ND (0.76)	19	28	430	37 J+	0.54 J
Styrene	-	-	ND (0.74)	0.9	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
Tetrachloroethene	150000	300000	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
Toluene	500000	1000000	ND (0.74)	20	ND (0.76)	14	13	49 J	ND (0.71)	ND (0.75)
trans-1,2-Dichloroethene	500000	1000000	ND (1.1)	ND (1.2)	ND (1.1)	ND (0.97)	ND (1)	ND (74)	ND (1.1)	ND (1.1)
trans-1,3-Dichloropropene	-	-	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)
Trichloroethene	200000	400000	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.32)	ND (0.35)	ND (25)	ND (0.35)	ND (0.37)
Trichlorofluoromethane (CFC-11)	-	-	ND (3)	ND (3.1)	ND (3)	ND (2.6)	ND (2.8)	ND (200)	ND (2.8)	ND (3)
Trifluorotrichloroethane (Freon 113)	-	-	ND (3)	ND (3.1)	ND (3)	ND (2.6)	ND (2.8)	ND (200)	ND (2.8)	ND (3)
Vinyl chloride	13000	27000	ND (0.74)	ND (0.77)	ND (0.76)	ND (0.65)	ND (0.7)	ND (50)	ND (0.71)	ND (0.75)

- Notes:**
- Data shown in **red** exceed one or more of the following New York State Department of Environmental Conservation Part 375 Soil Criteria
[A] - Commercial
[B] - Industrial
 - ND = Not detected above detection limit shown
J = Estimated value or reporting limit (for NDs)
J+= Estimated result biased high
 - Results in **bold** were detected.
 - ug/kg = micrograms per kilogram
 - Data has been validated by Haley & Aldrich of New York.
 - Sample Types:
N - Normal Environmental Sample
FD - Field Duplicate

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-19	HA-DOC5E-20	HA-DOC5E-21	HA-DOC5E-22	HA-DOC5E-23B	HA-DOC5E-24	HA-DOC5E-25	HA-DOC5E-32
Sample Date	NYSDEC	NYSDEC	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
Sample Type	Part 375	Part 375	N	N	N	N	N	N	N	N
Sample Depth (bgs)	Commercial	Industrial	3 - 4 (ft)	3 - 4 (ft)	4 - 5 (ft)	3 - 4 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-19-211007-0825	DOC5E-20-211007-0910	DOC5E-21-211007-0920	DOC5E-22-211007-0940	DOC5E-23-211007-1020	DOC5E-24-211007-1045	DOC5E-25-211007-1125	DOC5E-32-211007-1420
Other										
Total Solids (%)	-	-	80.4	78.4	78.3	78.6	77	81.6	81.7	81.4
Semi-Volatile Organic Compounds (ug/kg)										
1,2,4,5-Tetrachlorobenzene	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2,2'-oxybis(1-Chloropropane)	-	-	ND (240)	ND (1200) J	ND (1200)	ND (250)	ND (260)	ND (240)	ND (240)	ND (240)
2,3,4,6-Tetrachlorophenol	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2,4,5-Trichlorophenol	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2,4,6-Trichlorophenol	-	-	ND (120)	ND (630)	ND (620)	ND (130)	ND (130)	ND (120)	ND (120)	ND (120)
2,4-Dichlorophenol	-	-	ND (180)	ND (940)	ND (930)	ND (190)	ND (190)	ND (180)	ND (180)	ND (180)
2,4-Dimethylphenol	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2,4-Dinitrophenol	-	-	ND (970)	ND (5000)	ND (5000)	ND (1000)	ND (1000)	ND (960)	ND (950)	ND (970)
2,4-Dinitrotoluene	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2,6-Dinitrotoluene	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2-Chloronaphthalene	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2-Chlorophenol	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2-Methylnaphthalene	-	-	ND (240)	650 J	2300	3500	240 J	300	ND (240)	38 J
2-Methylphenol (o-Cresol)	500000	1000000	ND (200)	ND (1000)	ND (1000)	ND (210)	210	ND (200)	ND (200)	ND (200)
2-Nitroaniline	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
2-Nitrophenol	-	-	ND (430)	ND (2200)	ND (2200)	ND (460)	ND (460)	ND (430)	ND (430)	ND (440)
3&4-Methylphenol	-	-	ND (290)	180 J+	ND (1500)	ND (300)	340 J+	ND (290)	ND (280)	ND (290)
3,3'-Dichlorobenzidine	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
3-Nitroaniline	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
4,6-Dinitro-2-methylphenol	-	-	ND (520)	ND (2700)	ND (2700)	ND (550)	ND (560)	ND (520)	ND (520)	ND (520)
4-Bromophenyl phenyl ether	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
4-Chloro-3-methylphenol	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
4-Chloroaniline	-	-	ND (200)	ND (1000) J	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
4-Chlorophenyl phenyl ether	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
4-Nitroaniline	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
4-Nitrophenol	-	-	ND (280)	ND (1500)	ND (1400)	ND (300)	ND (300)	ND (280)	ND (280)	ND (280)
Acenaphthene	500000	1000000	81 J	6300	2100	1500	270	150 J	ND (160)	41 J
Acenaphthylene	500000	1000000	ND (160)	3200	ND (830)	150 J	ND (170)	ND (160)	ND (160)	ND (160)
Acetophenone	-	-	ND (200)	ND (1000) J	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Anthracene	500000	1000000	53 J	4800	890	2000	430	120	ND (120)	ND (120)
Atrazine	-	-	ND (160)	ND (840)	ND (830)	ND (170)	ND (170)	ND (160)	ND (160)	ND (160)
Benzaldehyde	-	-	ND (260)	ND (1400) J	ND (1400)	ND (280)	ND (280)	ND (260)	ND (260)	ND (270)
Benzo(a)anthracene	5600	11000	34 J	16000 ^[AB]	170 J	510	250	ND (120)	ND (120)	24 J
Benzo(a)pyrene	1000	1100	ND (160)	12000 ^[AB]	ND (830)	280	170	ND (160)	ND (160)	ND (160)
Benzo(b)fluoranthene	5600	11000	ND (120)	21000 ^[AB]	ND (620)	360	220	ND (120)	ND (120)	ND (120)
Benzo(g,h,i)perylene	500000	1000000	ND (160)	5200	ND (830)	110 J	99 J	ND (160)	ND (160)	ND (160)
Benzo(k)fluoranthene	56000	110000	ND (120)	7100	ND (620)	120 J	83 J	ND (120)	ND (120)	ND (120)
Biphenyl	-	-	ND (460)	ND (2400)	450 J	460 J	87 J	ND (450)	ND (450)	ND (460)
bis(2-Chloroethoxy)methane	-	-	ND (220)	ND (1100) J	ND (1100)	ND (230)	ND (230)	ND (220)	ND (210)	ND (220)
bis(2-Chloroethyl)ether	-	-	ND (180)	ND (940) J	ND (930)	ND (190)	ND (190)	ND (180)	ND (180)	ND (180)
bis(2-Ethylhexyl)phthalate	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Butyl benzylphthalate	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Caprolactam	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Carbazole	-	-	49 J	1300	950 J	580	90 J	260	ND (200)	ND (200)
Chrysene	56000	110000	23 J	17000	140 J	530	290	ND (120)	ND (120)	ND (120)
Dibenz(a,h)anthracene	560	1100	ND (120)	1400 ^[AB]	ND (620)	33 J	33 J	ND (120)	ND (120)	ND (120)
Dibenzofuran	350000	1000000	75 J	1100	1900	1200	360	150 J	ND (200)	35 J
Diethyl phthalate	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Dimethyl phthalate	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

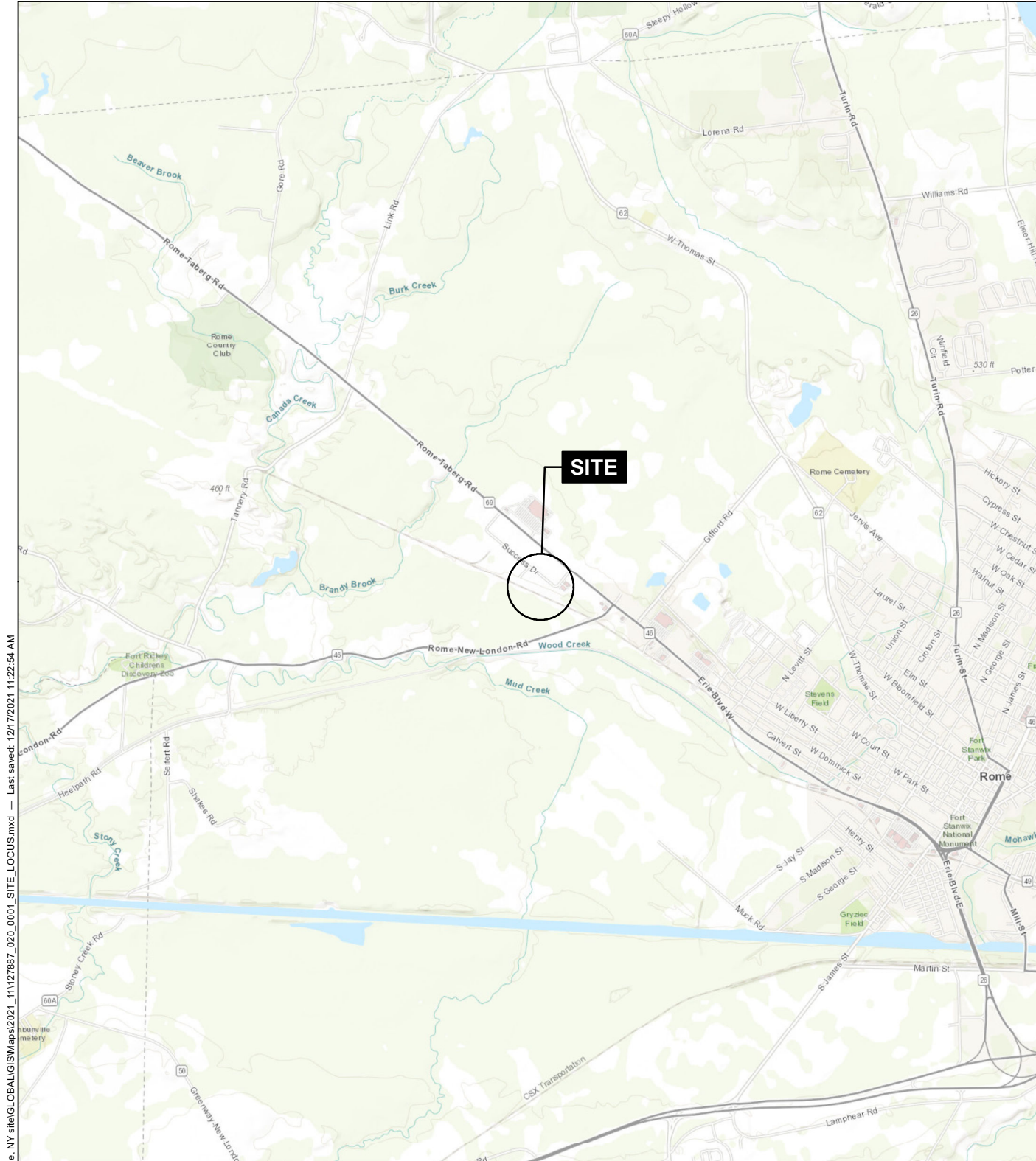
Location			HA-DOC5E-19	HA-DOC5E-20	HA-DOC5E-21	HA-DOC5E-22	HA-DOC5E-23B	HA-DOC5E-24	HA-DOC5E-25	HA-DOC5E-32
Sample Date	NYSDEC	NYSDEC	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
Sample Type	Part 375	Part 375	N	N	N	N	N	N	N	N
Sample Depth (bgs)	Commercial	Industrial	3 - 4 (ft)	3 - 4 (ft)	4 - 5 (ft)	3 - 4 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-19-211007-0825	DOC5E-20-211007-0910	DOC5E-21-211007-0920	DOC5E-22-211007-0940	DOC5E-23-211007-1020	DOC5E-24-211007-1045	DOC5E-25-211007-1125	DOC5E-32-211007-1420
Di-n-butylphthalate	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Di-n-octyl phthalate	-	-	ND (200)	ND (1000)	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Fluoranthene	500000	1000000	190	32000	1000	1800	600	100 J	27 J	82 J
Fluorene	500000	1000000	86 J	2600	1700	1400	360	200	ND (200)	45 J
Hexachlorobenzene	6000	12000	ND (120)	ND (630)	ND (620)	ND (130)	ND (130)	ND (120)	ND (120)	ND (120)
Hexachlorobutadiene	-	-	ND (200)	ND (1000) J	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
Hexachlorocyclopentadiene	-	-	ND (580)	ND (3000)	ND (3000)	ND (600)	ND (610)	ND (570)	ND (570)	ND (580)
Hexachloroethane	-	-	ND (160)	ND (840) J	ND (830)	ND (170)	ND (170)	ND (160)	ND (160)	ND (160)
Indeno(1,2,3-cd)pyrene	5600	11000	ND (160)	7200 ^{AI}	ND (830)	160 J	140 J	ND (160)	ND (160)	52 J
Isophorone	-	-	ND (180)	ND (940)	ND (930)	ND (190)	ND (190)	ND (180)	ND (180)	ND (180)
Naphthalene	500000	1000000	220	2600 J-	19000	13000	1500	1400	ND (200)	110 J
Nitrobenzene	-	-	ND (180)	ND (940)	ND (930)	ND (190)	ND (190)	ND (180)	ND (180)	ND (180)
N-Nitrosodi-n-propylamine	-	-	ND (200)	ND (1000) J	ND (1000)	ND (210)	ND (210)	ND (200)	ND (200)	ND (200)
N-Nitrosodiphenylamine	-	-	ND (160)	ND (840)	ND (830)	ND (170)	ND (170)	ND (160)	ND (160)	ND (160)
Pentachlorophenol	6700	55000	ND (160)	ND (840)	ND (830)	ND (170)	ND (170)	ND (160)	ND (160)	ND (160)
Phenanthrene	500000	1000000	230	7300	3700	3400	540	380	ND (120)	130
Phenol	500000	1000000	ND (200)	ND (1000)	ND (1000)	ND (210)	320 J+	ND (200)	ND (200)	ND (200)
Pyrene	500000	1000000	130	26000	740	1200	490	62 J	23 J	58 J
Volatile Organic Compounds (ug/kg)										
1,1,1-Trichloroethane	500000	1000000	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
1,1,2,2-Tetrachloroethane	-	-	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
1,1,2-Trichloroethane	-	-	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
1,1-Dichloroethane	240000	480000	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
1,1-Dichloroethene	500000	1000000	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
1,2,3-Trichlorobenzene	-	-	0.65 J	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
1,2,4-Trichlorobenzene	-	-	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
1,2-Dibromo-3-chloropropane (DBCP)	-	-	ND (2.3)	ND (2.4) J	ND (540)	ND (130)	ND (2.3)	ND (1.9)	ND (1.9)	ND (2.6)
1,2-Dibromoethane (Ethylene Dibromide)	-	-	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
1,2-Dichlorobenzene	500000	1000000	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
1,2-Dichloroethane	30000	60000	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
1,2-Dichloropropane	-	-	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
1,3-Dichlorobenzene	280000	560000	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
1,4-Dichlorobenzene	130000	250000	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
1,4-Dioxane	130000	250000	ND (60)	ND (64) J	ND (14000)	ND (3500)	ND (60)	ND (50)	ND (52)	ND (70)
2-Butanone (Methyl Ethyl Ketone)	500000	1000000	ND (7.6)	4.4 J-	ND (1800)	ND (440)	2.2 J	1.6 J	ND (6.5)	ND (8.8) J
2-Hexanone	-	-	ND (7.6)	ND (8) J	ND (1800)	ND (440)	ND (7.5)	ND (6.3)	ND (6.5)	ND (8.8) J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	-	ND (7.6)	ND (8) J	ND (1800)	ND (440)	ND (7.5)	ND (6.3)	ND (6.5)	ND (8.8)
Acetone	500000	1000000	6.9 J	19 J-	ND (1800)	ND (440)	9.8	10	10	11 J
Benzene	44000	89000	0.49	ND (0.4) J	ND (90)	ND (22)	0.57	2	ND (0.32)	ND (0.44)
Bromodichloromethane	-	-	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
Bromoform	-	-	ND (3)	ND (3.2) J	ND (720)	ND (170)	ND (3)	ND (2.5)	ND (2.6)	ND (3.5)
Bromomethane (Methyl Bromide)	-	-	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
Carbon disulfide	-	-	ND (7.6)	ND (8) J	ND (1800)	ND (440)	ND (7.5)	ND (6.3)	ND (6.5)	ND (8.8)
Carbon tetrachloride	22000	44000	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
Chlorobenzene	500000	1000000	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
Chlorobromomethane	-	-	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8) J
Chloroethane	-	-	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
Chloroform (Trichloromethane)	350000	700000	ND (1.1)	ND (1.2) J	ND (270)	ND (66)	ND (1.1)	ND (0.94)	ND (0.97)	ND (1.3)
Chloromethane (Methyl Chloride)	-	-	ND (3)	ND (3.2) J	ND (720)	ND (170)	ND (3)	ND (2.5)	ND (2.6)	ND (3.5)
cis-1,2-Dichloroethene	500000	1000000	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
cis-1,3-Dichloropropene	-	-	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
Cyclohexane	-	-	ND (7.6)	ND (8) J	ND (1800)	ND (440)	ND (7.5)	ND (6.3)	ND (6.5)	ND (8.8)

TABLE I
PRE-EXCAVATION DOCUMENTATION SAMPLE RESULTS SUMMARY
LOT 5E, 5D, RAILROAD PARCEL IRM
FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE
ROME, NEW YORK

Location			HA-DOC5E-19	HA-DOC5E-20	HA-DOC5E-21	HA-DOC5E-22	HA-DOC5E-23B	HA-DOC5E-24	HA-DOC5E-25	HA-DOC5E-32
Sample Date	NYSDEC	NYSDEC	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021	10/07/2021
Sample Type	Part 375	Part 375	N	N	N	N	N	N	N	N
Sample Depth (bgs)	Commercial	Industrial	3 - 4 (ft)	3 - 4 (ft)	4 - 5 (ft)	3 - 4 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)	4 - 5 (ft)
Sample Name	Soil Criteria	Soil Criteria	DOC5E-19-211007-0825	DOC5E-20-211007-0910	DOC5E-21-211007-0920	DOC5E-22-211007-0940	DOC5E-23-211007-1020	DOC5E-24-211007-1045	DOC5E-25-211007-1125	DOC5E-32-211007-1420
Dibromochloromethane	-	-	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
Dichlorodifluoromethane (CFC-12)	-	-	ND (7.6)	ND (8) J	ND (1800)	ND (440)	ND (7.5)	ND (6.3)	ND (6.5)	ND (8.8)
Ethylbenzene	390000	780000	2	0.12 J-	18000	410	ND (0.75)	30	ND (0.65)	ND (0.88)
Isopropylbenzene (Cumene)	-	-	1.1	0.09 J-	5700	130	ND (0.75)	17	ND (0.65)	ND (0.88)
m,p-Xylenes	-	-	1.5	ND (1.6) J	34000	840	ND (1.5)	90	ND (1.3)	ND (1.8)
Methyl acetate	-	-	ND (3)	ND (3.2) J	ND (720)	ND (170)	ND (3)	ND (2.5)	ND (2.6)	ND (3.5)
Methyl Tert Butyl Ether (MTBE)	500000	1000000	ND (1.5)	ND (1.6) J	ND (360)	ND (87)	ND (1.5)	ND (1.3)	ND (1.3)	ND (1.8)
Methylcyclohexane	-	-	ND (3)	ND (3.2) J	180 J	ND (170)	ND (3)	0.66 J	ND (2.6)	ND (3.5)
Methylene chloride	500000	1000000	ND (3.8)	ND (4) J	ND (900)	ND (220)	ND (3.8)	ND (3.2)	ND (3.2)	ND (4.4)
o-Xylene	-	-	1.3	ND (0.8) J	11000	320	ND (0.75)	40	ND (0.65)	ND (0.88)
Styrene	-	-	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
Tetrachloroethene	150000	300000	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
Toluene	500000	1000000	ND (0.76)	ND (0.8) J	2300	93	ND (0.75)	5.9	ND (0.65)	ND (0.88)
trans-1,2-Dichloroethene	500000	1000000	ND (1.1)	ND (1.2) J	ND (270)	ND (66)	ND (1.1)	ND (0.94)	ND (0.97)	ND (1.3)
trans-1,3-Dichloropropene	-	-	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)
Trichloroethene	200000	400000	ND (0.38)	ND (0.4) J	ND (90)	ND (22)	ND (0.38)	ND (0.32)	ND (0.32)	ND (0.44)
Trichlorofluoromethane (CFC-11)	-	-	ND (3)	ND (3.2) J	ND (720)	ND (170)	ND (3)	ND (2.5)	ND (2.6)	ND (3.5)
Trifluorotrichloroethane (Freon 113)	-	-	ND (3)	ND (3.2) J	ND (720)	ND (170)	ND (3)	ND (2.5)	ND (2.6)	ND (3.5)
Vinyl chloride	13000	27000	ND (0.76)	ND (0.8) J	ND (180)	ND (44)	ND (0.75)	ND (0.63)	ND (0.65)	ND (0.88)

- Notes:**
- Data shown in **red** exceed one or more of the following New York State Department of Environmental Conservation Part 375 Soil Criteria
[A] - Commercial
[B] - Industrial
 - ND = Not detected above detection limit shown
J = Estimated value or reporting limit (for NDs)
J+= Estimated result biased high
 - Results in **bold** were detected.
 - ug/kg = micrograms per kilogram
 - Data has been validated by Haley & Aldrich of New York.
 - Sample Types:
N - Normal Environmental Sample
FD - Field Duplicate

FIGURES

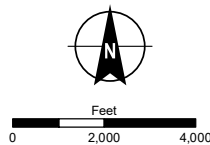


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Map source: Esri



PROJECT LOCATION



Prepared for:



Greenfield Environmental Multistate Trust, LLC
Trustee of the Multistate Environmental
Response Trust

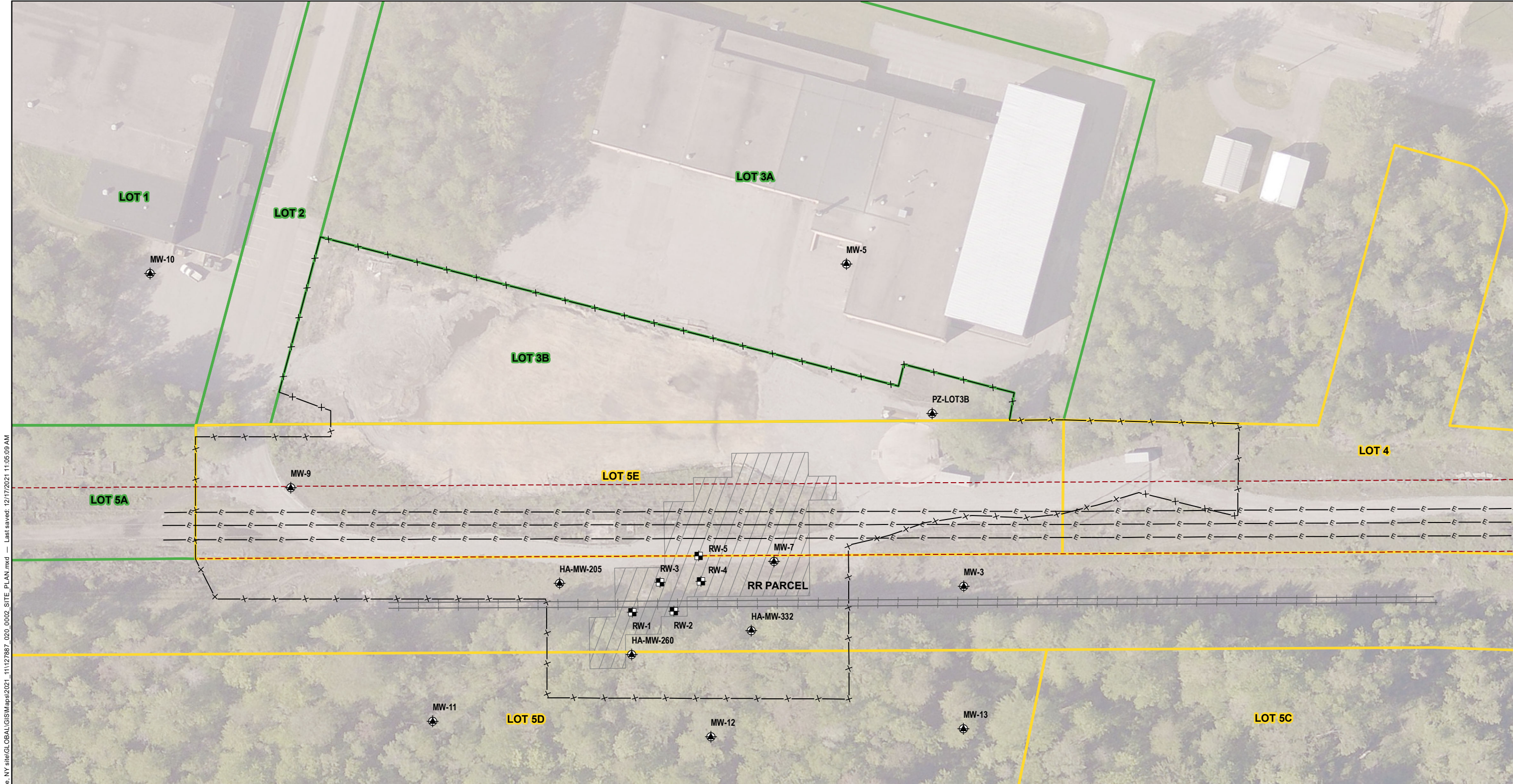
**FORMER KERR-MCGEE/TRONOX
FEDERAL CREOSOTE SITE
ROME, NEW YORK**

Figure 1

SITE LOCUS

PROJECT: 127887	BY: ANICHOLS	REVISIONS:
DATE: DEC 2021	CHECKED: GW	

HALEY & ALDRICH OF NEW YORK



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EXPLANATION

- Monitoring well
- Recovery well
- Former railroad track
- National Grid easement boundary
- Overhead electrical wire
- Proposed IRM excavation
- Limits of construction
- Multistate Trust-owned parcel
- Parcel owned by others

NOTES

1. All locations and dimensions are approximate.
2. Assessor parcel data source: Oneida County and Hoffman Land Surveying and Geomatics survey.
3. National Grid easment and overhead wire data source: Hoffman Land Surveying and Geomatics survey.
4. Aerial imagery source: EagleView 2017



PROJECT LOCATION



SCALE IN FEET
0 30 60

Prepared for:



Greenfield Environmental Multistate Trust, LLC
Trustee of the Multistate Environmental Response Trust

FORMER KERR-MCGEE/TRONOX
FEDERAL CREOSOTE SITE
ROME, NEW YORK

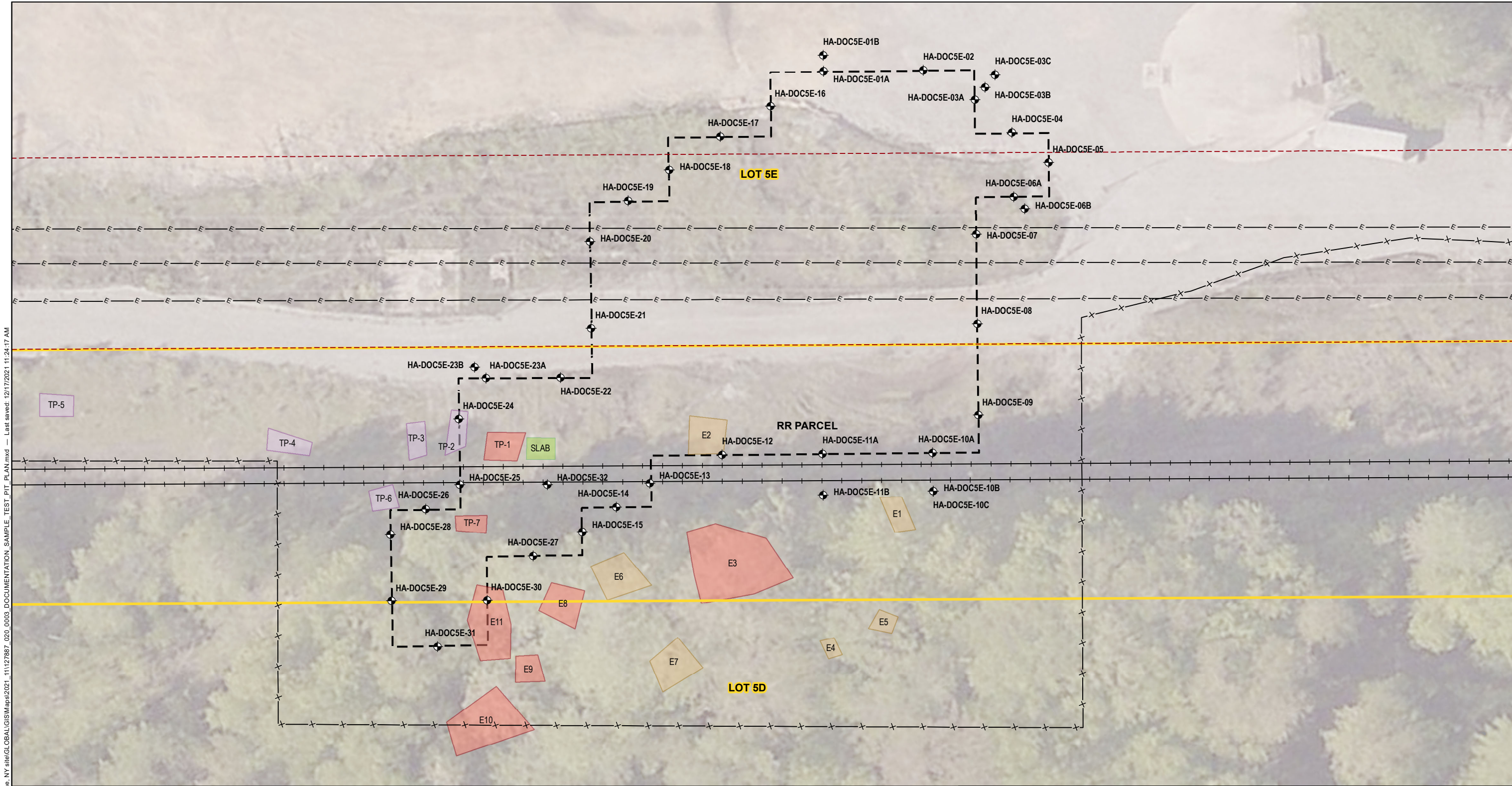
Figure 2

SITE PLAN

PROJECT: 127887	BY: ANICHOLS	REVISIONS:
DATE: DEC 2021	CHECKED: GW	

HALEY & ALDRICH OF NEW YORK

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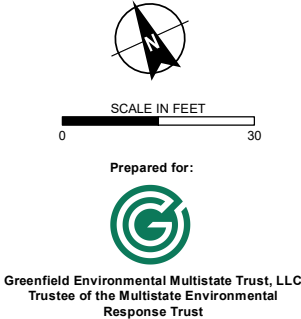
EXPLANATION

- Documentation sample
- Former railroad track
- National Grid easement boundary
- Overhead electrical wire
- Proposed IRM excavation boundary
- Limits of construction

- Test pits, October 2021
- No evidence of creosote impact
 - Surficial evidence of creosote impact
 - Creosote impact at confining layer
 - Concrete slab
 - Multistate Trust-owned parcel

NOTES

- All locations and dimensions are approximate.
- Assessor parcel data source: Oneida County and Hoffman Land Surveying and Geomatics survey.
- National Grid easment and overhead wire data source: Hoffman Land Surveying and Geomatics survey.
- Aerial imagery source: EagleView 2017



FORMER KERR-MCGEE/TRONOX
FEDERAL CREOSOTE SITE
ROME, NEW YORK

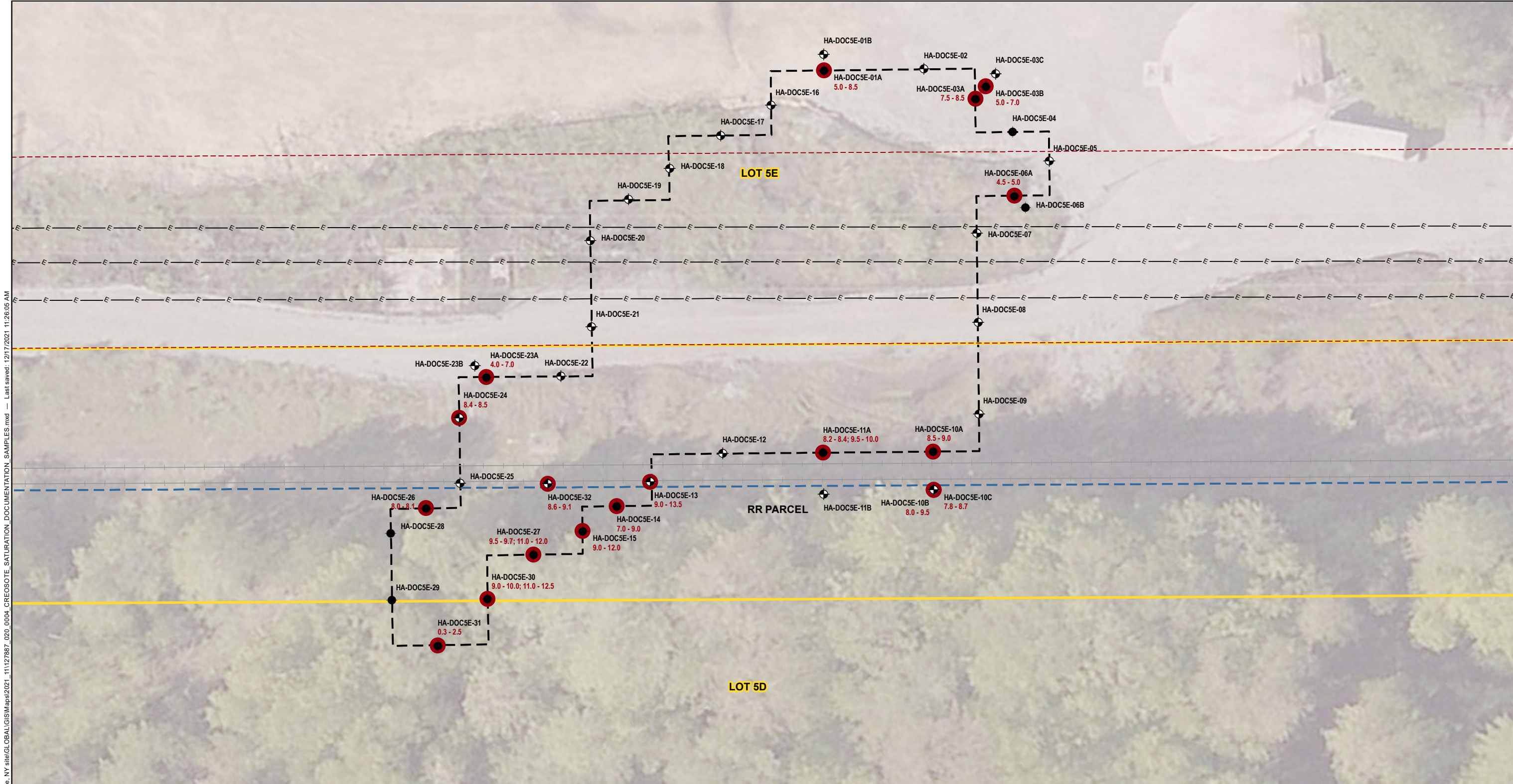
Figure 3

DOCUMENTATION SAMPLE
AND TEST PIT LOCATION PLAN

PROJECT: 127887	BY: ANICHOLS	REVISIONS:
DATE: DEC 2021	CHECKED: GW	

HALEY & ALDRICH OF NEW YORK

\\haleyaldrich.com\share\roc_common\41233 - GEI\T Rome, NY site\GLOBAL\GIS\Maps\2021_11\127887_020_0004_CREOSOTE SATURATION DOCUMENTATION SAMPLES.mxd — Last saved: 12/17/2021 11:26:05 AM



EXPLANATION

- Documentation boring; sample collected
- Documentation boring; no sample collected
- Evidence of creosote saturation, with depth interval (in feet)
- Tree line
- Former railroad track
- National Grid easement boundary
- Overhead electrical wire
- Proposed IRM excavation boundary
- Multistate Trust-owned parcel

NOTES

- All locations and dimensions are approximate.
- Assessor parcel data source: Oneida County and Hoffman Land Surveying and Geomatics survey.
- National Grid easment and overhead wire data source: Hoffman Land Surveying and Geomatics survey.
- Aerial imagery source: EagleView 2017

PROJECT LOCATION

SCALE IN FEET

0 30

Prepared for:

Greenfield Environmental Multistate Trust, LLC
Trustee of the Multistate Environmental Response Trust

FORMER KERR-MCGEE/TRONOX FEDERAL CREOSOTE SITE ROME, NEW YORK		
Figure 4		
CREOSOTE SATURATION OBSERVED IN DOCUMENTATION SAMPLES		
PROJECT: 127887	BY: ANICHOLS	REVISIONS:
DATE: DEC 2021	CHECKED: GW	
HALEY & ALDRICH OF NEW YORK		

APPENDIX A

Regulatory Communication

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 6

Dulles State Office Building, 317 Washington Street, Watertown, NY 13601-3787

P: (315) 785-2513 | F: (315) 785-2422

www.dec.ny.gov

September 28, 2021

Austin Hofmeister
Project Manager
Greenfield Multistate Environmental Trust LLC
1400 Village Sq. Blvd., Suite 3-144
Tallahassee, FL 32312

**Re: 633091, Former Federal Creosote Lots 3B, 5E, & RR Parcel,
Rome (C), Oneida County
Lot 5E/5D/RR Parcel IRM Work Plan – Pre-IRM Sampling Activities**

Dear Austin Hofmeister:

The Department is currently still reviewing the August 2021 Revised Lot 5E, 5D, Railroad Parcel Interim Remedial Measures (IRM) Work Plan, for the above-referenced site. However, we understand that the Trust has an immediate opportunity with the driller's limited schedule to complete the pre-IRM sampling, identified in the IRM work plan, during the week of October 4, 2021.

We understand that these sampling activities will consist of soil borings along each proposed excavation cell sidewall as well as exploratory test pits to investigate the previously documented creosote piles and the presence of any subsurface concrete structures. These sampling activities will help to refine the proposed IRM scope as well as aid in producing the most accurate Class II cost estimate for the proposed IRM. Therefore, the Department grants the Trust the approval to proceed with pre-IRM sampling activities identified in the August 2021 revised IRM work plan.

Please note that this approval to proceed does not grant approval of the revised Lot 5E, 5D, and Railroad (RR) Parcel IRM Work Plan. The pre-IRM sampling activities should be conducted in accordance with the revised IRM work plan's Sampling and Analysis Plan and Community Air Monitoring Program (CAMP).



Department of
Environmental
Conservation

If you have any questions, please feel free to contact me at 315-785-2522.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rachel Gardner".

Rachel Gardner, P.E.

ec: Mary Jo Crance, NYSDEC
Katherine Pochini, NYSDEC
Greg Rys, NYSDOH
Maureen Schuck, NYSDOH
Gregg Townsend, NYSDEC

Mondello, Claire

From: Gardner, Rachel K (DEC) <rachel.gardner@dec.ny.gov>
Sent: Thursday, October 7, 2021 8:03 AM
To: Austin Hofmeister
Cc: Tasha Lewis; Lauri Gorton; Mondello, Claire; White, Glenn; Townsend, Gregg A (DEC)
Subject: RE: Multistate Trust: Rome- 10/6/21 Field update- Modification to Work Plan approval needed

CAUTION: External Email

Good morning Austin,

I have reviewed your modification request below. I also spoke with Glenn while I was onsite on Monday (10/4) and oversaw the test pits, particularly in the southern end where creosote contamination was identified outside the current IRM excavation delineation. I concur with your proposal below, therefore, please note this email serves as my formal approval of the proposed modifications to the pre-IRM sampling outlined in the Lot 5E, 5D, Railroad Parcel IRM Work Plan. These modifications and my approval should be documented in the future IRM CCR.

Please keep me apprised of the "step out" boring in the NE corner. If creosote is present only at the clay interface, I do not think another step out boring would be required and the one step out boring completed can serve as a documentation sample (similar to the approach of the southern side of the proposed IRM excavation area).

If you have any questions or wish to discuss, please feel free to give me a call.

Thanks,
Rachel

Rachel K. Gardner, P.E.

Assistant Engineer, Region 6 Environmental Remediation

New York State Department of Environmental Conservation

317 Washington Street, Watertown, NY 13601

P: (315) 785-2522 | F: (315) 785-2242 | rachel.gardner@dec.ny.gov

www.dec.ny.gov |  |  | 



Department of
Environmental
Conservation

From: Austin Hofmeister <ah@g-etg.com>
Sent: Thursday, October 07, 2021 5:18 AM
To: Gardner, Rachel K (DEC) <rachel.gardner@dec.ny.gov>
Cc: Tasha Lewis <tl@g-etg.com>; Lauri Gorton <lg@g-etg.com>; cmondello@haleyaldrich.com; White, Glenn <GWhite@haleyaldrich.com>
Subject: Multistate Trust: Rome- 10/6/21 Field update- Modification to Work Plan approval needed

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

Rachel,

Below is a brief summary of the work completed yesterday at the site, as well as our proposed modifications to the documentation sampling plan. I've also attached a schematic showing what borings were completed and where we are proposing modifications.

- Twenty borings were installed yesterday 10/6/21 along the north, east, and southern portion of the proposed excavation area.
- The northern and eastern sides of the excavation were delineated with the exception of the northeast corner. Creosote saturation was observed in the original boring and a "step out" boring placed approximately 5 feet to the northeast of the original boring. This will be further evaluated today.
- Creosote saturation was observed at depth in the borings installed along the south side of the proposed excavation. "Step out borings" were installed approximately 12 to 13 feet south of those borings beyond the rail line and at the southern tree line. Creosote saturation continued to be observed at the sand/clay interface in those "step out" locations. Additional borings installed along the original proposed excavation boundaries south of the tree line also had observed creosote saturation.

Due to the findings and observations from the test pitting and observed creosote saturation in the southernmost borings, we plan to modify the sampling plan as follows:

- The southern boundary of the new proposed excavation area will not extend past the tree line. Documentation samples will be collected from the "step out" borings, and two additional documentation samples will be collected within the former excavation footprint north of the tree line to demarcate the new southern boundary as shown on the attached schematic. Documentation samples will be collected from those locations regardless of the presence of creosote saturation.
- All borings planned south of the tree line will be installed for visual documentation only. No "step-out" sampling will be conducted.
- Borings north of the tree line will be installed and sampled in accordance with the procedures in the Draft IRM Work Plan.

It is anticipated that the remaining borings and samples will be collected today, 10/7/21.

I will be giving you a call first thing this morning to discuss the changes to the Pre IRM investigation scope of work described above. Before we move forward with the proposed changes, I need to get approval from NYSDEC for the modifications to the Draft IRM Work Plan.

Thank You,
Austin

Austin Hofmeister
Project Manager
Greenfield Environmental Multistate Trust LLC,
Trustee of the Multistate Environmental Response Trust
Greenfield Environmental Trust Group, Inc., Member
Cell: (850) 228-9421
Email: ah@g-etg.com
Website: www.greenfieldenvironmental.com



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 6

Dulles State Office Building, 317 Washington Street, Watertown, NY 13601-3787

P: (315) 785-2513 | F: (315) 785-2422

www.dec.ny.gov

October 13, 2021

Austin Hofmeister
Project Manager
Greenfield Multistate Environmental Trust LLC
1400 Village Sq. Blvd., Suite 3-144
Tallahassee, FL 32312

**Re: 633091, Former Federal Creosote Lots 3B, 5E, & RR Parcel,
Rome (C), Oneida County
Lot 5E/5D/RR Parcel IRM Work Plan**

Dear Austin Hofmeister:

The Department has reviewed the revised Lot 5E, 5D, Railroad Parcel Interim Remedial Measures (IRM) Work Plan, electronically received on August 23, 2021, for the above-referenced site. Based on our review, we find the revised work plan to be acceptable, however final approval will be reserved pending the Departments' review and approval of the Wetland Mitigation, Restoration, and Monitoring Plan.

Please note the following:

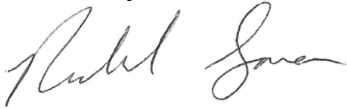
- Please provide the Departments with at least ten (10) days advance notice of when the wetland delineation is scheduled for the Federal Creosote site. If available, a NYSDEC Region 6 biologist will visit the site to verify the wetland delineation flagging after Haley & Aldrich has completed the delineation.
- Please provide the Departments with the Wetland Mitigation, Restoration, and Monitoring Plan as soon as it is finalized. This plan should be reviewed and approved by NYSDEC prior to submitting the Nationwide permit application to the US Army Corps of Engineers (USACE).

As a note, the Departments understand that the Trust and their consultant, Haley & Aldrich, are currently compiling the information gathered from the pre-IRM sampling activities to create a Class II cost estimate for the proposed Lot 5E, 5D, & Railroad Parcel IRM. Following the submittal of this cost estimate, we are anticipating an in-depth discussion with the Trust and NYSDEC's Central Office regarding this IRM and if sufficient funding is available to proceed with the IRM.



If you have any questions or wish to discuss any of the above, please feel free to contact me at 315-785-2522.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rachel Savarie".

Rachel Savarie, P.E.
Project Manager

ec: Claire Mondello, Haley & Aldrich
Glenn White, Haley & Aldrich
Mary Jo Crance, NYSDEC
Katherine Pochini, NYSDEC
Greg Rys, NYSDOH
Maureen Schuck, NYSDOH
Gregg Townsend, NYSDEC

APPENDIX B

Boring Logs



TEST PROBE REPORT

Boring No. HA-DOC5E-01A

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0		GRAVEL -FILL-	M1	24		0.0	X			
- 1	1.0	SILT, odor 1.0 to 5.0 ft staining				0.4				
- 2								X		
- 3										
- 4										
- 5	5.0	SILT 5.0 to 8.5.0 ft saturated -NATIVE-	M2	60		0.6				X
- 6										
- 7										
- 7.5		SAND				54.7				
- 8										X
- 8.5		CLAY				0.4				
- 9								X		
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-01B

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		GRAVEL	M1	24			X			
0.5		-FILL-				0.0				
1		SILT AND SAND 0.5 to 5.0 ft staining						X		
2										
3										
4										
5		5.0 TO 8.0 ft staining	M2	60						
6										
6.5		SAND				14.6				
7		-NATIVE-						X		
8		CLAY				0.0	X			
9		SAND				0.0	X			
10			M3	60						
11										
12										
12.8		CLAY				0.0	X			
13										
14										
15		BOTTOM OF EXPLORATION 15.0 FT								
		Note: Stepout 5 ft north from HA-DOC5E-01A. Note: Sample-DOC5E-01-211006-1040 (4-5 ft bgs)								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-02

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		GRAVEL -FILL-	M1	32		0.1	X			
1	1.0	SAND 1.0 to 5.5 ft sheen				0.1		X		
2										
3										
4										
5	5.5	SAND	M2	60		0.1		X		
6		SAND -NATIVE-				0.1	X			
7										
8	8.0	CLAY					X			
9						0.1				
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-02-211006-1010 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-03A

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		GRAVEL	M1	32		0.0	X			
0.5		-FILL-				0.1				
-1		SILT AND SAND 0.5 to 7.5 ft sheen and odor							X	
-2										
-3										
-4										
-5		4.5 to 4.5 ft railroad tie	M2	34		0.0			X	
-6										
-7										
-8		7.5 to 8.0 ft railroad tie 7.5 to 8.5 ft saturated								X
8.5		CLAY				0.0				
-9		-NATIVE-					X			
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-03B

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		GRAVEL	M1	26		0.0	X			
0.5		-FILL-				0.0				
-1		SAND AND SILT, wood 1.0 to 5.0 ft staining						X		
-2										
-3										
-4										
-5		5.0 to 7.0 ft saturated	M2	30		3.4				X
-6										
-7										
-7.5		CLAY				0.0				
-8		-NATIVE-					X			
8.5		Hard at 8.5 ft								
		BOTTOM OF EXPLORATION 8.5 FT								
		Note: Stepout 5 ft northeast from HA-DOC5E-03A.								

Backfill: 8.5' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-03C

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		GRAVEL	M1	36		0.0	X			
0.5		-FILL- SAND AND SILT, slight odor				0.0				
-1								X		
-2										
-3										
-4										
-5		Wood, black staining 5.0 to 6.0 ft staining	M2	42		0.0			X	
-6	6.0	SAND -NATIVE-				0.0				
-7							X			
-8										
-8.5										
-9		CLAY				0.0	X			
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Stepout 10.0 ft northeast from HA-SOC5E-03A. Note: Sample-DOC5E-03-211007-1600 (4-5 ft bgs) F.D. 4125-211007-0002								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-04

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		GRAVEL	M1	36		0.0	X			
-0.5		-FILL-				0.0				
-1		SAND AND SILT					X			
-2										
-3										
-4										
-4.5		SAND	M2	60		0.0	X			
-5		-NATIVE-								
-6										
-7										
-8										
-8.5		CLAY				0.0				
-9							X			
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT								
		Note: No sample.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-05

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		GRAVEL -FILL-	M1	34		0.0	X			
1										
2										
3										
3.5		SAND -NATIVE-	M2	48		0.0	X			
4										
5										
6										
7										
7.5		CLAY				0.0	X			
8										
9										
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-05-211006-1130 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-06A

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		WOOD -FILL-	M1	24		0.0	X			
1		SAND AND SILT 0.8 to 4.5 ft staining				8.0			X	
2										
3										
4										
4.5		SAND, saturated								X
5	5.0	4.5 to 5.0 ft saturated -NATIVE-	M2	60		34.6			X	
6		SAND 5.0 to 12.0 ft blebs, strong odor								
7										
8										
9										
10			M3	60		0.0				
11									X	
12	12.0	CLAY				0.0	X			
13										
14										
15	15.0	BOTTOM OF EXPLORATION 15.0 FT								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-06B

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0	0.5	SILT AND SAND	M1	27			X			
		-FILL-								
-1		SAND				0.0				
-2		-NATIVE-								
-3										
-4										
-5		SAND	M2	60		0.0	X			
-6										
-7										
-8										
-9										
-10		SAND	M3	60		0.0	X			
-11	11.3	CLAY				0.0	X			
-12										
-13										
-14										
-15	15.0	BOTTOM OF EXPLORATION 15.0 FT								
		Note: Stepout: 5 ft southeast from HA-DOC5E-06A.								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-07

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND -FILL-	M1	26		0.0	X			
1										
2		2.0 to 11.0 ft sheen, odor				0.2			X	
3										
4	4.0	SAND -NATIVE-	M2	60		0.0			X	
5						0.0				
6										
7										
8										
9										
10			M3	60		0.0				
11	11.0	CLAY					X			
12										
13										
14										
15	15.0	BOTTOM OF EXPLORATION 15.0 FT Note: Sample-DOC5E-07-211006-1245 (5-6 ft bgs)								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-08

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0		GRAVEL	M1	42		0.0	X			
	0.5	-FILL-				0.0	X			
- 1	1.0	SAND						X		
		1.0 to 5.0 ft slight sheen and odor								
- 2		-NATIVE-								
- 3										
- 4										
- 5		SAND	M2	60		0.0		X		
- 6		5.0 to 9.5 ft slight sheen								
- 7										
- 8										
- 8.5										
- 9										
- 10	10.0	CLAY				0.0	X			
		BOTTOM OF EXPLORATION 10.0 FT								
		Note: Sample-DOC5E-08-211006-1320 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-09

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND -FILL-	M1	30		0.0	X			
1										
2										
3										
4	4.0	SAND -NATIVE-	M2	60		0.0	X			
5										
6										
7										
7.5		SILT				0.0	X			
8							X			
9	9.0	CLAY				0.0	X			
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-09-211006-1340 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-10A

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SAND AND GRAVEL -FILL-	M1	40		0.0	X			
1	1.0	SAND -NATIVE-				0.0	X			
2										
3										
4										
5	5.0	SAND 5.0 to 7.0 ft sheen, odor	M2	60		0.0			X	
6										
7		7.0 to 9.0 ft blebs				0.1			X	
8										
9	9.0	8.5 to 9.0 ft saturated CLAY				0.0	X			X
10	10.0	BOTTOM OF EXPLORATION 10.0 FT								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-10B

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0	1.0	SILT AND SAND -FILL-	M1	34		0.0	X			
- 1		SAND -NATIVE-				0.0	X			
- 2										
- 3										
- 4		4.0 to 5.0 ft slight sheen, odor						X		
- 5		5.0 to 8.0 ft sheen, blebs	M2	60		0.0			X	
- 6										
- 7										
- 8		8.0 to 9.5 ft saturated								X
- 9	9.5	SILT AND SAND				0.0	X			
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Stepout 12 ft south from HA-DOC5E-10A.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-10C

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SILT AND SAND, sheen 0 to 0.8 ft sheen	M1	42		0.0		X		
-1	0.8	-FILL- Red-orange SAND 0.8 to 2.0 ft sheen				0.0		X		
-2	2.0	2.0 to 7.8 ft sheen				0.0		X		
-3		-NATIVE-								
-4										
-5		SAND	M2	60		0.0		X		
-6										
-7										
-8		SAND 7.8 to 8.7 ft saturated								X
-9	8.7	CLAY				0.0		X		
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: DOC5E-10-211007-1500 (4-5 ft bgs) Note: Stepout 12 ft south from HA-DOC5E-10A.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-11A

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND -FILL-	M1	42		0.0	X			
1	1.0	SAND -NATIVE-					X			
2										
3										
4										
5		4.5 to 5.0 ft sheen SAND 5.0 to 8.2 ft sheen, odor, blebs	M2	60		0.1			X	
6										
7										
8		8.2-8.4 ft and 9.5-10.0 ft saturated								X
9										
10	10.0	BOTTOM OF EXPLORATION 10.0 FT								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-11B

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0	1.0	SILT AND SAND -FILL-	M1	40		0.0	X			
- 1		SAND -NATIVE-				0.0				
- 2										
- 3										
- 4										
- 5		SAND	M2	60		0.0	X			
- 6										
- 7	7.3	CLAY				0.0	X			
- 8										
- 9										
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-11-211006-1415 (3-4 ft bgs) Note: Stepout 13 ft south from HA-DOC5E-11A.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-12

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT/SAND -FILL-	M1	42		0.0	X			
1	1.0	SAND -NATIVE-				0.0	X			
2										
3										
4										
5			M2	60		0.0	X			
6										
7										
7.5		CLAY				0.0	X			
8										
9										
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-12-211006-1435 (3-4 ft bgs).								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-13

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND -FILL-	M1	42		0.0	X			
1										
2										
3	3.0	SAND 3.0 to 5.0 ft slight sheen, slight odor -NATIVE-				0.0		X		
4										
5		SAND 3.0 to 5.0 ft sheen, odor	M2	60		0.0			X	
6										
7										
8		SAND 8.0 to 9.0 ft blebs, sheen, odor								
9		9.0 to 13.5 ft saturated								X
10			M3	60		0.0				X
11		SAND								
12										
13										
14		CLAY				0.0			X	
15	15.0	BOTTOM OF EXPLORATION 15.0 FT								
		Note: DOC5E-13-211007-1445 (6-7 ft bgs) F.D. 4125-211007-0001								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-14

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0		SILT AND SAND -FILL-	M1	33		0.0	X			
- 1	1.0	SAND 1.0 to 4.0 ft slight sheen, slight odor				0.0		X		
- 2										
- 3										
- 4		SAND 4.0 to 7.0 ft sheen, blebs, odor							X	
- 5		SAND	M2	60						
- 6										
- 7		7.0 to 9.0 ft saturated								X
- 8										
- 9	9.0	CLAY				0.0	X			
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-15

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 06 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND	M1	34		0.0	X			
1		-FILL-								
1.5		SAND				0.0	X			
2										
3										
4										
5		SAND	M2	60		0.0		X		
6		5.0 to 7.0 ft sheen, odor								
7		7.0 to 9.0 ft blebs, sheen, odor							X	
8										
9		9.0 to 12.0 saturated								X
10		SAND	M3	60						
11										
12	12.0	CLAY				0.0	X			
13										
14										
15	15.0	BOTTOM OF EXPLORATION 15.0 FT								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-16

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SAND AND GRAVEL -FILL-	M1	23		0.0	X			
1						0.0				
2										
3										
4										
5		SAND AND GRAVEL 5.0 to 6.0 ft sheen, odor	M2	60		0.0			X	
6	6.0	SAND 6.0 to 8.0 ft sheen -NATIVE-				0.0		X		
7										
8	8.0	CLAY				0.0	X			
9										
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Sample: DOC5E-16-211007-0740 (3-4 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-17

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SILT AND SAND	M1	34		0.0	X			
-0.5		-FILL-				0.0		X		
-1		SAND 0.5 to 7.5 ft sheen, slight odor								
-2		-NATIVE-								
-3										
-4										
-5		SAND	M2	60		0.0		X		
-6										
-7										
-7.7		7.5 to 7.7 blebs				0.0	X		X	
-8		CLAY								
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-17-211007-0800 (3-4 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-18

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND 0.0 to 4.0 ft slight sheen -FILL-	M1	34		0.0		X		
4	4.0	SAND 4.0 to 8.2 ft sheen -NATIVE-	M2	60		0.0		X		
8	8.2	CLAY				0.0	X			
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-18-211007-0815 (3-4 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-19

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND -FILL-	M1	35		0.0	X			
1	1.2	SAND 1.2 to 2.0 ft creosote impacts -NATIVE-				0.0		X		
2							X			
3										
4										
5		SAND	M2	60		0.0	X			
6										
7										
8	8.3	CLAY				0.0	X			
9										
10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-19-211007-0825 (3-4 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-20

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SILT AND SAND -FILL-	M1	29		0.0	X			
-1		1.5 to 5.0 ft staining				0.0		X		
-2										
-3										
-4										
-5	5.0	SAND -NATIVE-	M2	60		0.0	X			
-6										
-6.5		CLAY				0.0	X			
-7										
-8										
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-20-211007-0910 (3-4 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-21

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		GRAVEL	M1	22		0.0	X			
0.5		-FILL-				0.0				
-1		SAND AND SILT						X		
-2		0.5 to 5.0 ft staining								
-3										
-4										
-5	5.0	SAND, Wood 5.0 to 8.5 ft blebs, sheen, odor -NATIVE-	M2	60		0.0			X	
-6										
-7										
-8										
-8.5		-CLAY-				0.0	X			
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: DOC5E-21-211007-0920 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-22

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SILT AND SAND 0.0 TO 7.0 ft sheen and blebs -FILL-	M1	12		0.0			X	
-1										
-2										
-3										
-4										
-5	5.0	SAND -NATIVE-	M2	60		0.0			X	
-6										
-7	7.0	CLAY				0.0	X			
-8										
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Sample: DOC5E-22-211007-0940 (3-4 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-23A

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SAND AND GRAVEL -FILL-	M1	32		0.0	X			
-1		SAND AND GRAVEL 0.5 to 4.0 ft sheen, blebs, and odor				0.0			X	
-2										
-3										
-4		SAND AND GRAVEL 4.0 to 7.0 ft saturated								X
-5	5.0	SAND	M2	60		0.0				X
-6		-NATIVE-								
-7		SAND 7.0 to 7.8 ft sheen, blebs							X	
-8	7.8	CLAY				0.0	X			
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: No sample.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-23B

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		GRAVEL	M1	27		0.0	X			
0.5		-FILL-				0.0				
-1		SILT AND SAND 0.5 to 5.0 ft staining						X		
-2										
-3										
-4										
-5	5.0	GRAVEL AND SAND 5.0 to 7.5 ft staining, sheen	M2	60		0.0			X	
-6										
-7										
-8	7.5	SAND				0.0	X			
-8		-NATIVE-								
-9	8.5	CLAY				0.0	X			
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT								
		Note: Sample-DOC5E-23-211007-1020 (4-5 ft bgs) Note: Stepout 5 ft northwest from HA-DOC5E-23A.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-24

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SAND AND GRAVEL 0.0 to 3.6 ft staining -FILL-	M1	41		0.0		X		
-1										
-2										
-3										
-3.6										
-4	3.6	SAND -NATIVE-	M2	60		0.0	X			
-5										
-6										
-7										
-8										
-8.5		8.4 to 8.5 ft saturated CLAY				0.0	X			X
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-24-211007-1045 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-25

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0		SAND -FILL-	M1	39		0.0	X			
- 1	1.0	SAND 1.0 to 4.5 ft staining -NATIVE-				0.0		X		
- 2										
- 3										
- 4										
- 5		SAND	M2	60		0.0	X X			
- 6										
- 7										
- 8										
- 8.5		CLAY				0.0	X			
- 9										
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: DOC5E-25-211007-1125 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-26

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0	1.0	SILT AND SAND 0.0 to 4.5 ft staining -FILL-	M1	36		0.0		X		
- 1		SAND -NATIVE-								
- 2										
- 3										
- 4										
- 5		SAND 5.0 to 6.75 ft sheen	M2	60		0.0	X	X		
- 6										
- 7	7.3	6.75 to 7.25 ft blebs, sheen							X	
- 8		CLAY, sand seam at 8 ft, saturated				0.0				X
- 9										
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: No sample.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-27

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0		SILT AND SAND AND GRAVEL -FILL-	M1	26		0.0	X			
- 1										
- 2										
- 3		3.0 to 4.0 ft sheen						X		
- 4	4.0	SAND 4.0 to 5.0 ft red/orange staining -NATIVE-								
- 5		SAND	M2	60		0.0				
- 6										
- 7										
- 8		8.0 to 9.5 ft sheen, blebs							X	
- 9		9.5 to 9.7 ft saturated								X
- 10		SAND 10.0 to 11.0 ft sheen	M3	60		0.0			X	
- 11		11.0 to 12.0 ft saturated								X
- 12.0		CLAY				0.0	X			
- 13										
- 14										
- 15.0		BOTTOM OF EXPLORATION 10.0 FT								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-28

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0		SILT AND ORGANICS	M1	21		0.0	X			
	0.5	-FILL-				0.0	X			
-1		SAND								
		-NATIVE-								
-2										
-3										
-4										
-5		SAND	M2	60		0.0		X		
		5.0 to 7.5 ft sheen								
-6										
-7										
	7.5	CLAY				0.0	X			
-8										
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT								
		Note: No sample.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-29

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND SAND	M1	39		0.0	X			
0.5		-FILL-				0.0	X			
1		SAND, red-orange								
2										
3										
4	4.0	SAND				0.0	X			
5		-NATIVE-	M2	60				X		
6		SAND 5.0 to 7.0 ft sheen								
7		7.0 to 8.0 ft blebs							X	
8	8.0	CLAY				0.0	X			
9										
10	10.0	BOTTOM OF EXPLORATION 10.0 FT								
		Note: No sample								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-30

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
0		SILT AND ORGANICS	M1	37		0.0	X			
0.5		-FILL- SAND, brown				0.0	X			
1										
2										
3										
4		SAND, red-orange				0.0	X			
4.5										
5		SAND 5.0 to 7.7 ft sheen -NATIVE-	M2	60		0.0		X		
6										
7										
8		Blebs 7.7-9 ft 7.7 to 9.0 ft blebs							X	
9		9-9.1, 9.5-9.6, 9.7-9.8, 9.9-10 ft saturated								X
10			M3	60		0.0	X			
11		11.0 to 12.5 ft blebs and saturated								X
12										
12.5		CLAY				0.0	X			
13										
14										
15	15.0	BOTTOM OF EXPLORATION 15.0 FT Note: No sample.								

Backfill: 15' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-31

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
-0	0.3	ORGANICS	M1	24		0.0	X			X
		-FILL-								
-1	1.0	CLAY, black stained, saturated								
		SAND								X
		1.0 to 2.5 ft blebs and saturated								
-2		-NATIVE-							X	
-3										
-4										
-5		SAND	M2	60		0.0				
		5.0 to 8.5 ft slight sheen						X		
-6										
-7										
-8										
-8.5		CLAY				0.0	X			
-9										
-10	10.0	BOTTOM OF EXPLORATION 10.0 FT								
		Note: No sample.								

Backfill: 10' to 0' Cuttings



TEST PROBE REPORT

Boring No. HA-DOC5E-32

Project Former Federal Creosote Site - Lot 5E IRM, Rome, New York
Client Greenfield Environmental Multistate Trust (GEMT)
Contractor Matrix Environmental Technologies

File No. 127887-020
Sheet No. 1 of 1
Project Mgr. C. Mondello
Date 07 October 2021
Field Rep. R. Lydell
Driller S. Marchetti

Rig Type Geoprobe 7720 DT
Core Type Macro Core
Core Diameter 1.25 in.

Assumed Creosote-Related Impacts
Include the Following Observations:
Odor, staining, Sheen, and/or Creosote Blebs
NR = Not Recorded

Datum NAD83 NY Central

Scale (ft)	Stratum Change (ft)	Description of Strata (cinder, sand, gravel, clay, etc.) (fill/native)	Sample ID	Recovery (in.)	Depth to Water (ft)	PID (ppm)	Opinion of Visual Impacts			
							None	Low Impacts	Low to Moderate Impacts	Presence of Creosote-Saturated Soil
- 0		SAND -FILL-	M1	39		0.0	X			
- 1	1.0	SAND 1.0 to 7.0 ft staining -NATIVE-				0.0		X		
- 2										
- 3										
- 4										
- 5		SAND	M2	60		0.0		X		
- 6										
- 7		7.0 to 8.6 ft blebs							X	
- 8										
- 9	9.1	SAND 8.6 to 9.1 ft saturated CLAY				0.0	X			X
- 10	10.0	BOTTOM OF EXPLORATION 10.0 FT Note: Sample-DOC5E-32-211007-1420 (4-5 ft bgs)								

Backfill: 10' to 0' Cuttings

APPENDIX C

Photo Log

Lot 5E/5D/RR Parcel Pre-Construction Investigation
Rome, New York
File No. 127887-022
Dates Photographs Taken: 4 to 7 October 2021



Photo 1: Dried creosote mound.



Photo 2: Dried creosote on ground surface.



Photo 3: Surficial creosote in test pit E11.



Photo 4: Creosote observed in test pit E11 from approximately 0 to 3 ft bgs.



Photo 5: Surficial creosote in test pit E8.



Photo 6: Surficial creosote in test pit E3.

Lot 5E/5D/RR Parcel Pre-Construction Investigation
Rome, New York
File No. 127887-022
Dates Photographs Taken: 4 to 7 October 2021



Photo 7: Surficial creosote in test pit E10, observed approximately 1 to 2 ft bgs.



Photo 8: Creosote observed at confining layer



Photo 9: Creosote saturation in test pit TP-1



Photo 10: Backfilled test pit E3. Creosote visible on ground surface.



Photo 11: Backfilled test pit E10. Creosote visible on ground surface.



Photo 12: Backfilled test pit.

Lot 5E/5D/RR Parcel Pre-Construction Investigation
Rome, New York
File No. 127887-022
Dates Photographs Taken: 4 to 7 October 2021



Photo 13: Tree line along former railway bed. View to the east.

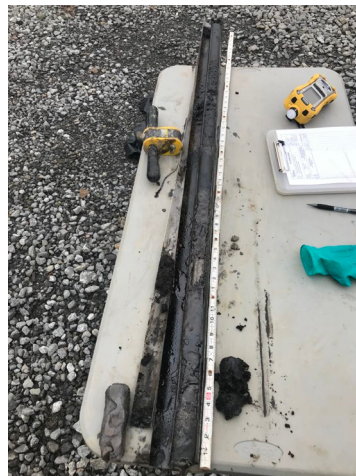


Photo 14: Creosote saturation in boring HA-DOC5E-01A



Photo 15: Creosote saturation in boring HA-DOC5E-11A



Photo 16: Creosote saturation in boring HA-DOC5E-23A

APPENDIX D

Documentation Sample Analytical Data

Data Usability Summary Report

Project Name: Rome GEMT

Project Description: Soil Samples

Sample Date(s): 6 & 7 October 2021

Analytical Laboratory: Alpha Analytical – Westborough, MA

Validation Performed by: Vanessa Godard

Validation Reviewed by: Katherine Miller

Validation Date: 21 October 2021

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the samples described above. The analytical results for Sample Delivery Group(s) (SDG) listed below were reviewed to determine the data's usability:

1. Sample Delivery Group Number L2154507
2. Sample Delivery Group Number L2154924
3. Precision and Accuracy [for SDG(s) above]

This data validation and usability assessment was performed per the guidance and requirements established by the U.S. Environmental Protection Agency's (USEPA) *National Functional Guidelines (NFG) for Organic Data Review*.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and RL are flagged "J" as estimated.

Sample data were qualified in accordance with laboratory's standard operating procedures (SOP). The results presented in each laboratory report were found to be compliant with the data quality objectives for the project and therefore usable; any exceptions are noted in the following pages.

For more detailed quality control (QC) information see Explanations section.

1. Sample Delivery Group Number L2154507

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number L2154507, dated 12 October 2021. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- Custody seals were not used on the sample cooler(s).

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods
DOC5E-02-211006-1010	N	L2154507-01	10/6/2021	Soil	A, B, D
DOC5E-01-211006-1040	N	L2154507-02	10/6/2021	Soil	A, B, D
DOC5E-05-211006-1130	N	L2154507-03	10/6/2021	Soil	A, B, D
DOC5E-07-211006-1245	N	L2154507-04	10/6/2021	Soil	A, C, D
DOC5E-08-211006-1320	N	L2154507-05	10/6/2021	Soil	A, B, D
DOC5E-09-211006-1340	N	L2154507-06	10/6/2021	Soil	A, B, D
DOC5E-11-211006-1415	N	L2154507-07	10/6/2021	Soil	A, B, D
DOC5E-12-211006-1435	N	L2154507-08	10/6/2021	Soil	A, B, D

Method Holding Time			
A.	EPA 2540G	Total Solids	7 days
B.	EPA 8260C	Volatile Organic Compounds (VOCs) – DI Vial Terracore	48 hr. freeze, 14-day analysis
C.	EPA 8260C	Volatile Organic Compounds (VOCs) – Methanol Terracore	14-day analysis
D.	EPA 8270D	Semi-Volatile Organic Compounds (SVOCs)	14 day extract, 40 day analysis

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

Cooler(s) temperature on arrival to the laboratory was: 2.5 degrees Celsius.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

All dilutions were reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below.

Sample ID	Lab ID	Analyte/Method	Dilution Factor	Issue/Explanation
DOC5E-02-211006-1010	L2154507-01	SVOCs	10x	Dilution required to bring the concentration of target analytes within the calibration range.
DOC5E-01-211006-1040	L2154507-02		10x	
DOC5E-07-211006-1245	L2154507-04		5x	
		VOCs	Elevated	Methanol vial used due to elevated concentration.

1.4 REPORTING BASIS (WET/DRY)

[Refer to section E 1.1.](#) Per the matrix and state requirements, data in this SDG were reported on a dry weight basis. Percent solid results were reviewed and found to be within limits.

1.5 SURROGATE RECOVERY COMPLIANCE

[Refer to section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified QC limits.

1.6 LABORATORY CONTROL SAMPLES

[Refer to section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicates (LCS/LCSD) analyses exhibited recoveries and RPDs within the specified limits.

1.7 MATRIX SPIKE SAMPLES

[Refer to section E 1.4.](#) No client samples were used for matrix spike/matrix spike duplicate (MS/MSD) analysis in this SDG.

1.8 BLANK SAMPLE ANALYSIS

[Refer to section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.9 DUPLICATE SAMPLE ANALYSIS

[Refer to section E 1.6.](#) No client samples were used for laboratory duplicate analysis in this SDG. No field duplicates were collected in this data set.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the data quality objectives for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. No qualifiers were applied to any data in this report.

2. Sample Delivery Group Number L2154924

2.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number L2154924, dated 14 October 2021. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- Custody seals were not used on the sample cooler(s).
- The EPA 8260C methanol vial was received empty for sample L2154924-05.
- Sample L2154924-14 was reanalyzed for VOCs after the initial run produced failing surrogate recoveries. The reanalysis achieved similar results. Both runs are reported. To avoid reporting duplicate data, **the reviewer marked the initial run non-reportable**. Both runs are technically valid and resulted in comparable results.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods
DOC5E-16-211007-0740	N	L2154924-01	10/7/2021	Soil	A, C, D
DOC5E-17-211007-0800	N	L2154924-02	10/7/2021	Soil	A, B, D
DOC5E-18-211007-0815	N	L2154924-03	10/7/2021	Soil	A, B, D
DOC5E-19-211007-0825	N	L2154924-04	10/7/2021	Soil	A, B, D
DOC5E-20-211007-0910	N	L2154924-05	10/7/2021	Soil	A, B, D
DOC5E-21-211007-0920	N	L2154924-06	10/7/2021	Soil	A, C, D
DOC5E-22-211007-0940	N	L2154924-07	10/7/2021	Soil	A, C, D
DOC5E-23-211007-1020	N	L2154924-08	10/7/2021	Soil	A, B, D
DOC5E-24-211007-1045	N	L2154924-09	10/7/2021	Soil	A, B, D
DOC5E-25-211007-1125	N	L2154924-10	10/7/2021	Soil	A, B, D
DOC5E-32-211007-1420	N	L2154924-11	10/7/2021	Soil	A, B, D
DOC5E-13-211007-1445	N	L2154924-12	10/7/2021	Soil	A, B, D
DOC5E-10-211007-1500	N	L2154924-13	10/7/2021	Soil	A, B, D
DOC5E-03-211007-1600	N	L2154924-14	10/7/2021	Soil	A, C, D
4125-211007-0001	FD	L2154924-15	10/7/2021	Soil	A, B, D
4125-211007-0002	FD	L2154924-16	10/7/2021	Soil	A, C, D

Method Holding Time			
A.	EPA 2540G	Total Solids	7 days
B.	EPA 8260C	Volatile Organic Compounds (VOCs) – DI Vial Terracore	48 hr. freeze, 14-day analysis
C.	EPA 8260C	Volatile Organic Compounds (VOCs) – Methanol Terracore	14-day analysis
D.	EPA 8270D	Semi-Volatile Organic Compounds (SVOCs)	14 day extract, 40 day analysis

2.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol with the following exceptions:

- The sample L2154924-05 EPA 8260C terracore volume was not collected according to 5035-L low-level specifications. Any reported concentrations that are below 200 ug/kg (all detects) may be biased low. **Qualify all VOCs for this sample "J-/UJ"**.

Cooler(s) temperature on arrival to the laboratory was: 2.7, 4.3 degrees Celsius.

2.3 REPORTING LIMITS AND SAMPLE DILUTIONS

All dilutions were reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below.

Sample ID	Lab ID	Analyte/ Method	Dilution Factor	Issue/Explanation
4125-211007-0002	L2154924-16	SVOCs	20x	Dilution required to bring the concentration of target analytes within the calibration range.
DOC5E-16-211007-0740	L2154924-01		10x	
DOC5E-03-211007-1600	L2154924-14		10x	
DOC5E-17-211007-0800	L2154924-02		5x	
DOC5E-20-211007-0910	L2154924-05		5x	
DOC5E-21-211007-0920	L2154924-06		5x	
		VOCs	4x	

2.4 REPORTING BASIS (WET/DRY)

[Refer to section E 1.1.](#) Per the matrix and state requirements, data in this SDG were reported on a dry weight basis. Percent solid results were reviewed and found to be within limits.

2.5 SURROGATE RECOVERY COMPLIANCE

Refer to section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified QC limits, with the following exceptions:

Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
EPA 8260C	DOC5E-17-211007-0800	L2154924-02*	1,2-Dichloroethane-d4	1x	135%	"J+" All Detects
			4-Bromofluorobenzene		156%	
			Dibromofluoromethane		137%	
	DOC5E-03-211007-1600	L2154924-14	1,2-Dichloroethane-d4	1x	137%	"J+" 2-Butanone, Benzene, Cyclohexane
			Dibromofluoromethane		133%	
		L2154924-14 RE	1,2-Dichloroethane-d4		139%	"J+" 2-Butanone, Benzene
			Dibromofluoromethane		139%	
EPA 8270D	DOC5E-20-211007-0910	L2154924-05	Nitrobenzene-d5	5x	13%	"J-/UJ" Target Compounds**
	4125-211007-0002	L2154924-16	All SVOC Surrogates	20x	0%	None, dilution > 5x

* This sample was not re-analyzed due to coelution with an obvious interference.

** 2,2'-oxybis(1-Chloropropane), 4-Chloroaniline, Acetophenone, Benzaldehyde, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, Hexachlorobutadiene, Hexachloroethane, Naphthalene, and N-Nitrosodi-n-propylamine.

2.6 LABORATORY CONTROL SAMPLES

Refer to section E 1.3. Compounds associated with the laboratory control samples/laboratory control sample duplicates (LCS/LCSD) analyses exhibited recoveries and RPDs within the specified limits with the following exceptions:

Sample Type	Method	Batch ID	Analyte	%R	Qualifier	Affected Samples
LCS	EPA 8260C	1558023	Chloromethane	134%	NA	None, sample ND.
LCS			Vinyl chloride	136%	NA	None, sample ND.
LCS/LCSD			2-Butanone	137%/136%	NA	None, sample ND.
LCS/LCSD	EPA 8270D	1556395	Phenol	97%/107%	J+	L2154924-08, 14
LCSD			p-chloro-m-cresol	107%	J+	L2154924-08, 14
LCSD		1556449	p-chloro-m-cresol	112%	J+	L2154924-05
LCSD			4-nitrophenol	126%	NA	None, sample ND.
LCSD			Caprolactam	136%	NA	None, sample ND.
LCSD						

2.7 MATRIX SPIKE SAMPLES

[Refer to section E 1.4.](#) The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L2154924-11	DOC5E-32-211007-1420	VOCs, SVOCs
L2154924-13	DOC5E-10-211007-1500	VOCs, SVOCs

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS/MSD	EPA 8260C	DOC5E-32-211007-1420	Acetone	53%/50%	J/UJ	L2154924-11
MSD			2-Butanone	52%	J/UJ	L2154924-11
MSD			2-Hexanone	55%	J/UJ	L2154924-11
MSD			Bromochloromethane	67%	J/UJ	L2154924-11
MSD	EPA 8270D	DOC5E-10-211007-1500	Phenol	92%	NA	None, sample ND.

2.8 BLANK SAMPLE ANALYSIS

[Refer to section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred with the following exceptions:

Blank Type	Batch ID	Analyte Detected in Blank	Concentration (ug/kg)	Qualifier	Affected Samples
Method Blank	1557402	Chloromethane	1.7 J	NA	None, samples ND.
		Styrene	0.28 J	RL U	L2154924-02
	1557542	Chloromethane	86 J	RL U	L2154924-01, 07
		Styrene	14 J	RL U	L2154924-07
	1557727	Chloromethane	86 J	RL U	L2154924-14 RE
		1,2-Dichlorobenzene	7.5 J	RL U	L2154924-14 RE
		1,3-Dichlorobenzene	8.8 J	RL U	L2154924-14 RE
		Styrene	9.8 J	NA	None, sample >10x blank
	1557727	Chlorobenzene	7.3 J	NA	None, samples ND.
		Chloromethane	48 J	RL U	L2154924-16
		1,2-Dichlorobenzene	7.4 J	RL U	L2154924-06, 14, 16
		1,3-Dichlorobenzene	7.6 J	RL U	L2154924-06, 16
		1,4- Dichlorobenzene	8.9 J	RL U	L2154924-06, 16
		Styrene	20 J	RL U	L2154924-06, 16
				J+	L2154924-14
	1557735	Chlorobenzene	0.15 J	NA	None, samples ND.
		Chloromethane	0.95 J	NA	None, samples ND.
		1,2-Dichlorobenzene	0.15 J	RL U	L2154924-12
		1,3-Dichlorobenzene	0.15 J	RL U	L2154924-12
		1,4- Dichlorobenzene	0.18 J	RL U	L2154924-12
		Styrene	0.41 J	RL U	L2154924-05, 12, 15

2.9 DUPLICATE SAMPLE ANALYSIS

[Refer to section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5x the RL):

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
L2154924-11	DOC5E-32-211007-1420	Total Solids

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 50 percent (or the absolute difference rule was satisfied if detects were less than 5x the RL).

Primary Sample ID	Duplicate Sample ID	Method(s)
DOC5E-13-211007-1445	4125-211007-0001	Total Solids, VOCs, SVOCs
DOC5E-03-211007-1600	4125-211007-0002	Total Solids, VOCs, SVOCs

Field Duplicate RPD Calculations:

Method(s): EPA 8260C, 8270D, 2540G				
Analyte (µg/kg, unless noted)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	DOC5E-13	4125-211007-0001		
Total Solids (%)	82.5	81.0	2	None, RPD < 50%
1,2-Dichlorobenzene	0.10 J*	ND U	NA	None, Both ND
1,3-Dichlorobenzene	0.12 J*	ND U	NA	None, Both ND
1,4-Dichlorobenzene	0.14 J*	ND U	NA	None, Both ND
Benzene	42	74	55	J/UJ, RPD > 50%
Ethylbenzene	26	45	54	J/UJ, RPD > 50%
Isopropylbenzene	2.2	4.3	NA	J/UJ, Abs Diff > RL
m,p-Xylenes	40	66	49	None, RPD < 50%
o-Xylene	19	28	38	None, RPD < 50%
Styrene	0.36 J*	0.15 J*	NA	None, Both ND
Toluene	14	13	7	None, RPD < 50%
All Remaining VOCs	ND U	ND U	NA	None, Both ND
2-Methylnaphthalene	44 J	28 J	NA	None, Abs. Diff. < RL
Acenaphthene	ND U	78 J	NA	None, Abs. Diff. < RL
Acenaphthylene	ND U	77 J	NA	None, Abs. Diff. < RL
Anthracene	ND U	160	NA	None, Abs. Diff. < RL
Benzo(a)anthracene	ND U	120	NA	None, Abs. Diff. < RL
Benzo(a)pyrene	ND U	95 J	NA	None, Abs. Diff. < RL
Benzo(b)fluoranthene	ND U	120	NA	None, Abs. Diff. < RL
Benzo(g,h,i)perylene	ND U	77 J	NA	None, Abs. Diff. < RL
Benzo(k)fluoranthene	ND U	39 J	NA	None, Abs. Diff. < RL
Carbazole	43 J	91 J	NA	None, Abs. Diff. < RL
Chrysene	ND U	100 J	NA	None, Abs. Diff. < RL
Dibenzofuran	ND U	65 J	NA	None, Abs. Diff. < RL
Fluoranthene	ND U	390	NA	J/UJ, Abs Diff > RL
Fluorene	ND U	110 J	NA	None, Abs. Diff. < RL
Indeno(1,2,3-cd)pyrene	ND U	110 J	NA	None, Abs. Diff. < RL
Naphthalene	330	98 J	NA	J/UJ, Abs Diff > RL
Phenanthrene	39 J	460	NA	J/UJ, Abs Diff > RL
Pyrene	ND U	280	NA	J/UJ, Abs Diff > RL
All Remaining SVOCs	ND U	ND U	NA	None, Both ND

* Qualified non-detect (ND) based on method blank contamination.

Field Duplicate RPD Calculations (continued):

Method(s): EPA 8260C, 8270D, 2540G				
Analyte (µg/kg, unless noted)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	DOC5E-03	4125-211007-0002		
Total Solids (%)	79.6	79.8	0	None, RPD < 50%
1,2-Dichlorobenzene	12 J*	13 J*	NA	None, Both ND
1,3-Dichlorobenzene	10 J*	12 J*	NA	None, Both ND
1,4-Dichlorobenzene	12 J	13 J*	NA	None, Abs. Diff. < RL
2-Butanone	150 J	ND U	NA	None, Abs. Diff. < RL
Benzene	97	38	NA	J/UJ, Abs Diff > RL
Chloromethane	120 J*	87 J*	NA	None, Both ND
Ethylbenzene	2600	540	131	J/UJ, RPD > 50%
Isopropylbenzene	1000	180	NA	J/UJ, Abs Diff > RL
m,p-Xylenes	5700	1200	130	J/UJ, RPD > 50%
Methyl acetate	280	130 J	NA	None, Abs. Diff. < RL
Methylcyclohexane	120 J	54 J	NA	None, Abs. Diff. < RL
o-Xylene	3100	620	133	J/UJ, RPD > 50%
Styrene	160	30 J*	NA	J/UJ, Abs Diff > RL
Toluene	370	130	NA	J/UJ, Abs Diff > RL
All Remaining VOCs	ND U	ND U	NA	None, Both ND
2,4-Dimethylphenol	820 J	ND U	NA	None, Abs. Diff. < RL
2-Methylnaphthalene	100000	19000	NA	J/UJ, Abs Diff > RL
2-Methylphenol	430 J	ND U	NA	None, Abs. Diff. < RL
3&4-Methylphenol	1200 J	1000 J	NA	None, Abs. Diff. < RL
Acenaphthene	110000	23000	131	J/UJ, RPD > 50%
Acenaphthylene	29000	18000	47	None, RPD < 50%
Anthracene	120000	68000	55	J/UJ, RPD > 50%
Benzo(a)anthracene	97000	90000	7	None, RPD < 50%
Benzo(a)pyrene	59000	66000	11	None, RPD < 50%
Benzo(b)fluoranthene	85000	100000	16	None, RPD < 50%
Benzo(g,h,i)perylene	31000	33000	6	None, RPD < 50%
Benzo(k)fluoranthene	34000	32000	6	None, RPD < 50%
Biphenyl	29000	5000 J	NA	J/UJ, Abs Diff > RL
Carbazole	52000	25000	70	J/UJ, RPD > 50%
Chrysene	100000	87000	14	None, RPD < 50%
Dibenz(a,h)anthracene	10000	10000	NA	None, Abs. Diff. < RL
Dibenzofuran	100000	26000	NA	J/UJ, Abs Diff > RL
Fluoranthene	290000	260000	11	None, RPD < 50%
Fluorene	150000	42000	113	J/UJ, RPD > 50%
Indeno(1,2,3-cd)pyrene	40000	38000	5	None, RPD < 50%
Naphthalene	260000	56000	129	J/UJ, RPD > 50%
Phenanthrene	400000	180000	76	J/UJ, RPD > 50%
Phenol	610 J	620 J	NA	None, Abs. Diff. < RL
Pyrene	210000	190000	10	None, RPD < 50%
All Remaining SVOCs	ND U	ND U	NA	None, Both ND

* Qualified non-detect (ND) based on method blank contamination.

2.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the data quality objectives for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. A summary of qualifiers applied to this SDG are shown below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
DOC5E-03-211007-1600	Initial VOCs Run	Detect/ND U	Non-reportable	Multiple Results Available
DOC5E-20-211007-0910	All VOCs	Detect/ND U	Detect J-/ND UJ	Inadequate Preservation
DOC5E-17-211007-0800	Acetone	14	14 J+	Surrogate Exceedance
	Benzene	5.9	5.9 J+	
	Cyclohexane	0.53	0.53 J+	
	Ethylbenzene	110	110 J+	
	Isopropylbenzene	200	200 J+	
	m,p-Xylenes	170	170 J+	
	Methylcyclohexane	7.4	7.4 J+	
	o-Xylene	37	37 J+	
DOC5E-03-211007-1600	2-Butanone	140	140 J+	
	2-Butanone RE	150	150 J+	
	Benzene	91	91 J+	
	Benzene RE	97	97 J+	
	Cyclohexane	35	35 J+	
DOC5E-20-211007-0910	2,2'-oxybis(1-Chloropropane)	ND U	ND UJ	
	4-Chloroaniline	ND U	ND UJ	
	Acetophenone	ND U	ND UJ	
	Benzaldehyde	ND U	ND UJ	
	bis(2-Chloroethoxy)methane	ND U	ND UJ	
	bis(2-Chloroethyl)ether	ND U	ND UJ	
	Hexachlorobutadiene	ND U	ND UJ	
	Hexachloroethane	ND U	ND UJ	
	Naphthalene	2600	2600 J-	
	N-Nitrosodi-n-propylamine	ND U	ND UJ	
DOC5E-20-211007-0910	3&4-Methylphenol	180	180 J+	Laboratory Control Sample Exceedance
DOC5E-23-211007-1020	3&4-Methylphenol	340	340 J+	
	Phenol	320	320 J+	
DOC5E-03-211007-1600	3&4-Methylphenol	1200	1200 J+	
	Phenol	610	610 J+	
DOC5E-32-211007-1420	2-Butanone	ND U	ND UJ	Matrix Spike Exceedance
	2-Hexanone	ND U	ND UJ	
	Acetone	11	11 J	
	Chlorobromomethane	ND U	ND UJ	

Qualifier Summary (continued):

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
DOC5E-16-211007-0740	Chloromethane	61 J	200 U	Method Blank Contamination
DOC5E-17-211007-0800	Styrene	0.41 J	0.71 U	
DOC5E-20-211007-0910	Styrene	0.17 J	0.80 UJ	
DOC5E-21-211007-0920	1,2-Dichlorobenzene	35 J	360 U	
	1,3-Dichlorobenzene	32 J	360 U	
	1,4-Dichlorobenzene	50 J	360 U	
	Styrene	110 J	180 U	
DOC5E-22-211007-0940	Chloromethane	54 J	170 U	
	Styrene	12 J	44 U	
DOC5E-13-211007-1445	1,2-Dichlorobenzene	0.10 J	1.3 U	
	1,3-Dichlorobenzene	0.12 J	1.3 U	
	1,4-Dichlorobenzene	0.14 J	1.3 U	
	Styrene	0.36 J	0.65 U	
DOC5E-03-211007-1600	1,2-Dichlorobenzene	15 J	120 U	
	1,2-Dichlorobenzene RE	12 J	120 U	
	1,3-Dichlorobenzene RE	10 J	120 U	
	Chloromethane RE	120 J	250 U	
	Styrene	170	170 J+	
4125-211007-0001	Styrene	0.15 J	0.70 U	
4125-211007-0002	1,2-Dichlorobenzene	13 J	100 U	
	1,3-Dichlorobenzene	12 J	100 U	
	1,4-Dichlorobenzene	13 J	100 U	
	Chloromethane	87 J	200 U	
	Styrene	30 J	50 UJ	
DOC5E-13-211007-1445 & 4125-211007-0001	Benzene	Detect/ND U	Detect J/ND UJ	Field Duplicate RPD/Absolute Difference
	Ethylbenzene			
	Isopropylbenzene			
	Fluoranthene			
	Naphthalene			
	Phenanthrene			
	Pyrene			
DOC5E-03-211007-1600 & 4125-211007-0002	Benzene			
	Ethylbenzene			
	Isopropylbenzene (Cumene)			
	m,p-Xylenes			
	o-Xylene			
	Styrene			
	Toluene			

Qualifier Summary (continued):

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
DOC5E-03-211007-1600 & 4125-211007-0002	2-Methylnaphthalene	Detect/ND U	Detect J/ND UJ	Field Duplicate RPD/Absolute Difference
	Acenaphthene			
	Anthracene			
	Biphenyl			
	Carbazole			
	Dibenzofuran			
	Fluorene			
	Naphthalene			
	Phenanthrene			

3. Precision and Accuracy [for SDG(s) above]

[Refer to section E 1.7.](#) Some measurement of analytical accuracy and precision was reported for each method with the site samples.

Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have $\geq 30\%$ solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (%RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%Rec) of certain spiked compounds. This can be assessed using LCS, BS, MS, and/or surrogate recoveries.

Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g}/\text{kg}$ microgram per kilogram
 - $\mu\text{g}/\text{L}$ microgram per liter
 - $\mu\text{g}/\text{m}^3$ microgram per cubic meter
 - mg/kg milligram per kilogram
 - mg/L milligram per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - WQ Water Quality control matrix
- Table Footnotes
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Abbreviations
 - %D Percent Difference
 - %R Percent Recovery
 - %RSD Percent Relative Standard Deviation
 - Abs Diff Absolute Difference
 - VOC Volatile Organic Compounds
 - SVOC Semi-Volatile Organic Compounds
 - BPJ Best Professional Judgement
 - CCB Continuing Calibration Blank
 - CCV Continuing Calibration Verification
 - CCVL Continuing Calibration Verification Low
 - COC Chain of Custody
 - CRI Collision Reaction Interface
 - DUSR Data Usability Summary Report
 - EMPC Estimated Maximum Possible Concentration
 - GC Gas Chromatograph

— GPC	Gel Permeation Chromatography
— ICAL	Initial Calibration
— ICB	Initial Calibration Blank
— ICP/MS	Inductively Coupled Plasma/ Mass Spectrometry
— ICV	Initial Calibration Verification
— ICVL	Initial Calibration Verification Low
— IPA	Isopropyl Alcohol
— LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
— MDL	Laboratory Method Detection Limit
— MS/MSD	Matrix Spike/Matrix Spike Duplicate
— ND	Non-Detect
— NFG	National Functional Guidelines
— GC/MS	Gas Chromatography/Mass Spectrometry
— BS	Blank Spike
— TIC	Tentatively Identified Compound
— PCB	Polychlorinated Biphenyl
— PDS	Post Digestion Spike
— PEM	Performance Evaluation Mixture
— PFAS	Per- and Polyfluoroalkyl Substances
— QAPP	Quality Assurance Project Plan
— QC	Quality Control
— Ra-226	Radium-226
— Ra-228	Radium-228
— RL	Laboratory Reporting Limit
— RPD	Relative Percent Difference
— TPU	Total Propagated Uncertainty
— RT	Retention Time
— RRF	Relative Response Factors
— SDG	Sample Delivery Group
— SOP	Laboratory Standard Operating Procedures
— SPE	Solid Phase Extraction
— USEPA	U.S. Environmental Protection Agency

Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.



ANALYTICAL REPORT

Lab Number:	L2154507
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Claire Mondello
Phone:	(585) 321-4219
Project Name:	LOT SE IRM
Project Number:	127887-020
Report Date:	10/12/21

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2154507-01	DOC5E-02-211006-1010	SOIL	ROME, NY	10/06/21 10:10	10/06/21
L2154507-02	DOC5E-01-211006-1040	SOIL	ROME, NY	10/06/21 10:40	10/06/21
L2154507-03	DOC5E-05-211006-11:30	SOIL	ROME, NY	10/06/21 11:30	10/06/21
L2154507-04	DOC5E-07-211006-1245	SOIL	ROME, NY	10/06/21 12:45	10/06/21
L2154507-05	DOC5E-08-211006-1320	SOIL	ROME, NY	10/06/21 13:20	10/06/21
L2154507-06	DOC5E-09-211006-1340	SOIL	ROME, NY	10/06/21 13:40	10/06/21
L2154507-07	DOC5E-11-211006-1415	SOIL	ROME, NY	10/06/21 14:15	10/06/21
L2154507-08	DOC5E-12-211006-1435	SOIL	ROME, NY	10/06/21 14:35	10/06/21

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

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: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

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.

Volatile Organics

L2154507-04: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

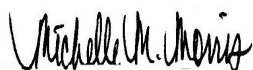
L2154507-01D and -04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2154507-01D and -04D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2154507-02D: The sample has elevated detection limits due to the dilution required by the sample matrix.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 10/12/21

ORGANICS

VOLATILES

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-01
 Client ID: DOC5E-02-211006-1010
 Sample Location: ROME, NY

Date Collected: 10/06/21 10:10
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/21 00:03
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	2.2		ug/kg	0.50	0.16	1
Toluene	2.6		ug/kg	1.0	0.54	1
Ethylbenzene	11		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-01

Date Collected: 10/06/21 10:10

Client ID: DOC5E-02-211006-1010

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	28		ug/kg	2.0	0.56	1
o-Xylene	22		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Styrene	0.46	J	ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	14		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	4.2		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	0.72	J	ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	1.1	J	ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-02
 Client ID: DOC5E-01-211006-1040
 Sample Location: ROME, NY

Date Collected: 10/06/21 10:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/10/21 23:38
 Analyst: NLK
 Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	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	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	1.5		ug/kg	0.60	0.20	1
Toluene	1.1	J	ug/kg	1.2	0.66	1
Ethylbenzene	4.3		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-02

Date Collected: 10/06/21 10:40

Client ID: DOC5E-01-211006-1040

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	15		ug/kg	2.4	0.68	1
o-Xylene	4.5		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	39		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	14		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Isopropylbenzene	0.15	J	ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
Methyl Acetate	ND		ug/kg	4.8	1.2	1
Cyclohexane	ND		ug/kg	12	0.66	1
1,4-Dioxane	ND		ug/kg	97	42.	1
Freon-113	ND		ug/kg	4.8	0.84	1
Methyl cyclohexane	1.2	J	ug/kg	4.8	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	101		70-130

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-03

Date Collected: 10/06/21 11:30

Client ID: DOC5E-05-211006-11:30

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 10/09/21 16:26

Analyst: NLK

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.8	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.76	0.11	1
Chloroform	ND		ug/kg	1.1	0.11	1
Carbon tetrachloride	ND		ug/kg	0.76	0.17	1
1,2-Dichloropropane	ND		ug/kg	0.76	0.10	1
Dibromochloromethane	ND		ug/kg	0.76	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.76	0.20	1
Tetrachloroethene	ND		ug/kg	0.38	0.15	1
Chlorobenzene	ND		ug/kg	0.38	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.53	1
1,2-Dichloroethane	ND		ug/kg	0.76	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.38	0.13	1
Bromodichloromethane	ND		ug/kg	0.38	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.38	0.12	1
Bromoform	ND		ug/kg	3.0	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.38	0.13	1
Benzene	ND		ug/kg	0.38	0.13	1
Toluene	ND		ug/kg	0.76	0.41	1
Ethylbenzene	ND		ug/kg	0.76	0.11	1
Chloromethane	ND		ug/kg	3.0	0.71	1
Bromomethane	ND		ug/kg	1.5	0.44	1
Vinyl chloride	ND		ug/kg	0.76	0.25	1
Chloroethane	ND		ug/kg	1.5	0.34	1
1,1-Dichloroethene	ND		ug/kg	0.76	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.38	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-03

Date Collected: 10/06/21 11:30

Client ID: DOC5E-05-211006-11:30

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	ND		ug/kg	1.5	0.42	1
o-Xylene	ND		ug/kg	0.76	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	0.13	1
Styrene	ND		ug/kg	0.76	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.6	0.69	1
Acetone	ND		ug/kg	7.6	3.6	1
Carbon disulfide	ND		ug/kg	7.6	3.4	1
2-Butanone	ND		ug/kg	7.6	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.6	0.97	1
2-Hexanone	ND		ug/kg	7.6	0.90	1
Bromochloromethane	ND		ug/kg	1.5	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.76	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.76	1
Isopropylbenzene	ND		ug/kg	0.76	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.21	1
Methyl Acetate	ND		ug/kg	3.0	0.72	1
Cyclohexane	ND		ug/kg	7.6	0.41	1
1,4-Dioxane	ND		ug/kg	61	27.	1
Freon-113	ND		ug/kg	3.0	0.53	1
Methyl cyclohexane	ND		ug/kg	3.0	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-04
 Client ID: DOC5E-07-211006-1245
 Sample Location: ROME, NY

Date Collected: 10/06/21 12:45
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/09/21 19:21
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	57	8.3	1
Chloroform	ND		ug/kg	86	8.0	1
Carbon tetrachloride	ND		ug/kg	57	13.	1
1,2-Dichloropropane	ND		ug/kg	57	7.1	1
Dibromochloromethane	ND		ug/kg	57	8.0	1
1,1,2-Trichloroethane	ND		ug/kg	57	15.	1
Tetrachloroethene	ND		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.2	1
Trichlorofluoromethane	ND		ug/kg	230	40.	1
1,2-Dichloroethane	ND		ug/kg	57	15.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.5	1
Bromodichloromethane	ND		ug/kg	28	6.2	1
trans-1,3-Dichloropropene	ND		ug/kg	57	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	9.0	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.5	1
Benzene	ND		ug/kg	28	9.5	1
Toluene	ND		ug/kg	57	31.	1
Ethylbenzene	710		ug/kg	57	8.0	1
Chloromethane	ND		ug/kg	230	53.	1
Bromomethane	ND		ug/kg	110	33.	1
Vinyl chloride	ND		ug/kg	57	19.	1
Chloroethane	ND		ug/kg	110	26.	1
1,1-Dichloroethene	ND		ug/kg	57	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	86	7.8	1
Trichloroethene	ND		ug/kg	28	7.8	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.2	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-04

Date Collected: 10/06/21 12:45

Client ID: DOC5E-07-211006-1245

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	110	8.4	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.8	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	2600		ug/kg	110	32.	1
o-Xylene	940		ug/kg	57	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	57	10.	1
Styrene	28	J	ug/kg	57	11.	1
Dichlorodifluoromethane	ND		ug/kg	570	52.	1
Acetone	ND		ug/kg	570	270	1
Carbon disulfide	ND		ug/kg	570	260	1
2-Butanone	ND		ug/kg	570	130	1
4-Methyl-2-pentanone	ND		ug/kg	570	73.	1
2-Hexanone	ND		ug/kg	570	67.	1
Bromochloromethane	ND		ug/kg	110	12.	1
1,2-Dibromoethane	ND		ug/kg	57	16.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	57.	1
Isopropylbenzene	680		ug/kg	57	6.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	16.	1
Methyl Acetate	ND		ug/kg	230	54.	1
Cyclohexane	ND		ug/kg	570	31.	1
1,4-Dioxane	ND		ug/kg	4600	2000	1
Freon-113	ND		ug/kg	230	40.	1
Methyl cyclohexane	ND		ug/kg	230	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-05
 Client ID: DOC5E-08-211006-1320
 Sample Location: ROME, NY

Date Collected: 10/06/21 13:20
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/09/21 16:50
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.66	0.10	1
Chloroform	ND		ug/kg	0.98	0.09	1
Carbon tetrachloride	ND		ug/kg	0.66	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.66	0.08	1
Dibromochloromethane	ND		ug/kg	0.66	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.66	0.17	1
Tetrachloroethene	ND		ug/kg	0.33	0.13	1
Chlorobenzene	ND		ug/kg	0.33	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.46	1
1,2-Dichloroethane	ND		ug/kg	0.66	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	0.11	1
Bromodichloromethane	ND		ug/kg	0.33	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	0.11	1
Benzene	2.6		ug/kg	0.33	0.11	1
Toluene	3.1		ug/kg	0.66	0.36	1
Ethylbenzene	7.6		ug/kg	0.66	0.09	1
Chloromethane	ND		ug/kg	2.6	0.61	1
Bromomethane	ND		ug/kg	1.3	0.38	1
Vinyl chloride	ND		ug/kg	0.66	0.22	1
Chloroethane	ND		ug/kg	1.3	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.66	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	0.98	0.09	1
Trichloroethene	ND		ug/kg	0.33	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.09	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-05

Date Collected: 10/06/21 13:20

Client ID: DOC5E-08-211006-1320

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	22		ug/kg	1.3	0.37	1
o-Xylene	9.2		ug/kg	0.66	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	0.11	1
Styrene	ND		ug/kg	0.66	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.6	0.60	1
Acetone	4.2	J	ug/kg	6.6	3.2	1
Carbon disulfide	ND		ug/kg	6.6	3.0	1
2-Butanone	ND		ug/kg	6.6	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.6	0.84	1
2-Hexanone	ND		ug/kg	6.6	0.77	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.66	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.65	1
Isopropylbenzene	4.6		ug/kg	0.66	0.07	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
Methyl Acetate	ND		ug/kg	2.6	0.62	1
Cyclohexane	ND		ug/kg	6.6	0.36	1
1,4-Dioxane	ND		ug/kg	52	23.	1
Freon-113	ND		ug/kg	2.6	0.45	1
Methyl cyclohexane	ND		ug/kg	2.6	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-06
 Client ID: DOC5E-09-211006-1340
 Sample Location: ROME, NY

Date Collected: 10/06/21 13:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/09/21 17:15
 Analyst: NLK
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.64	0.09	1
Chloroform	ND		ug/kg	0.96	0.09	1
Carbon tetrachloride	ND		ug/kg	0.64	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.64	0.08	1
Dibromochloromethane	ND		ug/kg	0.64	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.64	0.17	1
Tetrachloroethene	ND		ug/kg	0.32	0.12	1
Chlorobenzene	ND		ug/kg	0.32	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.44	1
1,2-Dichloroethane	ND		ug/kg	0.64	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	0.11	1
Bromodichloromethane	ND		ug/kg	0.32	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	0.10	1
Benzene	14		ug/kg	0.32	0.10	1
Toluene	1.6		ug/kg	0.64	0.35	1
Ethylbenzene	61		ug/kg	0.64	0.09	1
Chloromethane	ND		ug/kg	2.6	0.59	1
Bromomethane	ND		ug/kg	1.3	0.37	1
Vinyl chloride	ND		ug/kg	0.64	0.21	1
Chloroethane	ND		ug/kg	1.3	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.64	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.96	0.09	1
Trichloroethene	ND		ug/kg	0.32	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.09	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-06

Date Collected: 10/06/21 13:40

Client ID: DOC5E-09-211006-1340

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	37		ug/kg	1.3	0.36	1
o-Xylene	42		ug/kg	0.64	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	0.11	1
Styrene	ND		ug/kg	0.64	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.4	0.58	1
Acetone	ND		ug/kg	6.4	3.1	1
Carbon disulfide	ND		ug/kg	6.4	2.9	1
2-Butanone	ND		ug/kg	6.4	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.4	0.82	1
2-Hexanone	ND		ug/kg	6.4	0.75	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.64	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.64	1
Isopropylbenzene	7.6		ug/kg	0.64	0.07	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.17	1
Methyl Acetate	ND		ug/kg	2.6	0.60	1
Cyclohexane	ND		ug/kg	6.4	0.35	1
1,4-Dioxane	ND		ug/kg	51	22.	1
Freon-113	ND		ug/kg	2.6	0.44	1
Methyl cyclohexane	ND		ug/kg	2.6	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-07
 Client ID: DOC5E-11-211006-1415
 Sample Location: ROME, NY

Date Collected: 10/06/21 14:15
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/09/21 17:40
 Analyst: NLK
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.8	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.77	0.11	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.77	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.77	0.10	1
Dibromochloromethane	ND		ug/kg	0.77	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.77	0.21	1
Tetrachloroethene	ND		ug/kg	0.38	0.15	1
Chlorobenzene	ND		ug/kg	0.38	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.1	0.54	1
1,2-Dichloroethane	ND		ug/kg	0.77	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.38	0.13	1
Bromodichloromethane	ND		ug/kg	0.38	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.77	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.38	0.12	1
Bromoform	ND		ug/kg	3.1	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.38	0.13	1
Benzene	9.0		ug/kg	0.38	0.13	1
Toluene	20		ug/kg	0.77	0.42	1
Ethylbenzene	39		ug/kg	0.77	0.11	1
Chloromethane	ND		ug/kg	3.1	0.72	1
Bromomethane	ND		ug/kg	1.5	0.45	1
Vinyl chloride	ND		ug/kg	0.77	0.26	1
Chloroethane	ND		ug/kg	1.5	0.35	1
1,1-Dichloroethene	ND		ug/kg	0.77	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.10	1
Trichloroethene	ND		ug/kg	0.38	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-07

Date Collected: 10/06/21 14:15

Client ID: DOC5E-11-211006-1415

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.16	1
p/m-Xylene	49		ug/kg	1.5	0.43	1
o-Xylene	24		ug/kg	0.77	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.77	0.14	1
Styrene	0.90		ug/kg	0.77	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.7	0.71	1
Acetone	5.1	J	ug/kg	7.7	3.7	1
Carbon disulfide	ND		ug/kg	7.7	3.5	1
2-Butanone	ND		ug/kg	7.7	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.7	0.99	1
2-Hexanone	ND		ug/kg	7.7	0.91	1
Bromochloromethane	ND		ug/kg	1.5	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.77	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.77	1
Isopropylbenzene	7.2		ug/kg	0.77	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.21	1
Methyl Acetate	ND		ug/kg	3.1	0.73	1
Cyclohexane	ND		ug/kg	7.7	0.42	1
1,4-Dioxane	ND		ug/kg	62	27.	1
Freon-113	ND		ug/kg	3.1	0.53	1
Methyl cyclohexane	ND		ug/kg	3.1	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-08
 Client ID: DOC5E-12-211006-1435
 Sample Location: ROME, NY

Date Collected: 10/06/21 14:35
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/09/21 18:05
 Analyst: NLK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.8	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.76	0.11	1
Chloroform	ND		ug/kg	1.1	0.11	1
Carbon tetrachloride	ND		ug/kg	0.76	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.76	0.10	1
Dibromochloromethane	ND		ug/kg	0.76	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.76	0.20	1
Tetrachloroethene	ND		ug/kg	0.38	0.15	1
Chlorobenzene	ND		ug/kg	0.38	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.53	1
1,2-Dichloroethane	ND		ug/kg	0.76	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.38	0.13	1
Bromodichloromethane	ND		ug/kg	0.38	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.38	0.12	1
Bromoform	ND		ug/kg	3.0	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.38	0.13	1
Benzene	ND		ug/kg	0.38	0.13	1
Toluene	ND		ug/kg	0.76	0.41	1
Ethylbenzene	ND		ug/kg	0.76	0.11	1
Chloromethane	ND		ug/kg	3.0	0.71	1
Bromomethane	ND		ug/kg	1.5	0.44	1
Vinyl chloride	ND		ug/kg	0.76	0.26	1
Chloroethane	ND		ug/kg	1.5	0.34	1
1,1-Dichloroethene	ND		ug/kg	0.76	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.38	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-08

Date Collected: 10/06/21 14:35

Client ID: DOC5E-12-211006-1435

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	ND		ug/kg	1.5	0.43	1
o-Xylene	ND		ug/kg	0.76	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	0.13	1
Styrene	ND		ug/kg	0.76	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.6	0.70	1
Acetone	10		ug/kg	7.6	3.7	1
Carbon disulfide	ND		ug/kg	7.6	3.5	1
2-Butanone	ND		ug/kg	7.6	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.6	0.98	1
2-Hexanone	ND		ug/kg	7.6	0.90	1
Bromochloromethane	ND		ug/kg	1.5	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.76	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.76	1
Isopropylbenzene	ND		ug/kg	0.76	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.21	1
Methyl Acetate	ND		ug/kg	3.0	0.72	1
Cyclohexane	ND		ug/kg	7.6	0.41	1
1,4-Dioxane	ND		ug/kg	61	27.	1
Freon-113	ND		ug/kg	3.0	0.53	1
Methyl cyclohexane	ND		ug/kg	3.0	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/09/21 11:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05-08 Batch: WG1556774-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/09/21 11:04
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05-08 Batch: WG1556774-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/09/21 11:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05-08 Batch: WG1556774-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/09/21 11:04
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1556776-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/09/21 11:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1556776-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/09/21 11:04
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1556776-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/10/21 14:30
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1557045-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/10/21 14:30
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1557045-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/10/21 14:30
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1557045-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05-08 Batch: WG1556774-3 WG1556774-4								
Methylene chloride	98		98		70-130	0		30
1,1-Dichloroethane	107		106		70-130	1		30
Chloroform	104		103		70-130	1		30
Carbon tetrachloride	106		109		70-130	3		30
1,2-Dichloropropane	106		106		70-130	0		30
Dibromochloromethane	96		97		70-130	1		30
1,1,2-Trichloroethane	107		108		70-130	1		30
Tetrachloroethene	108		110		70-130	2		30
Chlorobenzene	103		104		70-130	1		30
Trichlorofluoromethane	107		106		70-139	1		30
1,2-Dichloroethane	104		105		70-130	1		30
1,1,1-Trichloroethane	111		111		70-130	0		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	109		112		70-130	3		30
cis-1,3-Dichloropropene	112		112		70-130	0		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	108		110		70-130	2		30
Benzene	106		107		70-130	1		30
Toluene	101		103		70-130	2		30
Ethylbenzene	100		101		70-130	1		30
Chloromethane	111		108		52-130	3		30
Bromomethane	101		99		57-147	2		30
Vinyl chloride	109		110		67-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05-08 Batch: WG1556774-3 WG1556774-4								
Chloroethane	112		113		50-151	1		30
1,1-Dichloroethene	107		106		65-135	1		30
trans-1,2-Dichloroethene	105		105		70-130	0		30
Trichloroethene	107		109		70-130	2		30
1,2-Dichlorobenzene	100		102		70-130	2		30
1,3-Dichlorobenzene	101		101		70-130	0		30
1,4-Dichlorobenzene	98		101		70-130	3		30
Methyl tert butyl ether	108		107		66-130	1		30
p/m-Xylene	105		106		70-130	1		30
o-Xylene	105		107		70-130	2		30
cis-1,2-Dichloroethene	103		104		70-130	1		30
Styrene	103		105		70-130	2		30
Dichlorodifluoromethane	110		109		30-146	1		30
Acetone	96		97		54-140	1		30
Carbon disulfide	100		100		59-130	0		30
2-Butanone	112		106		70-130	6		30
4-Methyl-2-pentanone	103		104		70-130	1		30
2-Hexanone	99		101		70-130	2		30
Bromochloromethane	108		106		70-130	2		30
1,2-Dibromoethane	115		116		70-130	1		30
1,2-Dibromo-3-chloropropane	109		112		68-130	3		30
Isopropylbenzene	102		104		70-130	2		30
1,2,3-Trichlorobenzene	100		104		70-130	4		30

Lab Control Sample Analysis Batch Quality Control

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05-08 Batch: WG1556774-3 WG1556774-4								
1,2,4-Trichlorobenzene	100		103		70-130	3		30
Methyl Acetate	111		110		51-146	1		30
Cyclohexane	108		110		59-142	2		30
1,4-Dioxane	111		113		65-136	2		30
Freon-113	108		108		50-139	0		30
Methyl cyclohexane	104		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1556776-3 WG1556776-4								
Methylene chloride	98		98		70-130	0		30
1,1-Dichloroethane	107		106		70-130	1		30
Chloroform	104		103		70-130	1		30
Carbon tetrachloride	106		109		70-130	3		30
1,2-Dichloropropane	106		106		70-130	0		30
Dibromochloromethane	96		97		70-130	1		30
1,1,2-Trichloroethane	107		108		70-130	1		30
Tetrachloroethene	108		110		70-130	2		30
Chlorobenzene	103		104		70-130	1		30
Trichlorofluoromethane	107		106		70-139	1		30
1,2-Dichloroethane	104		105		70-130	1		30
1,1,1-Trichloroethane	111		111		70-130	0		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	109		112		70-130	3		30
cis-1,3-Dichloropropene	112		112		70-130	0		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	108		110		70-130	2		30
Benzene	106		107		70-130	1		30
Toluene	101		103		70-130	2		30
Ethylbenzene	100		101		70-130	1		30
Chloromethane	111		108		52-130	3		30
Bromomethane	101		99		57-147	2		30
Vinyl chloride	109		110		67-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1556776-3 WG1556776-4								
Chloroethane	112		113		50-151	1		30
1,1-Dichloroethene	107		106		65-135	1		30
trans-1,2-Dichloroethene	105		105		70-130	0		30
Trichloroethene	107		109		70-130	2		30
1,2-Dichlorobenzene	100		102		70-130	2		30
1,3-Dichlorobenzene	101		101		70-130	0		30
1,4-Dichlorobenzene	98		101		70-130	3		30
Methyl tert butyl ether	108		107		66-130	1		30
p/m-Xylene	105		106		70-130	1		30
o-Xylene	105		107		70-130	2		30
cis-1,2-Dichloroethene	103		104		70-130	1		30
Styrene	103		105		70-130	2		30
Dichlorodifluoromethane	110		109		30-146	1		30
Acetone	96		97		54-140	1		30
Carbon disulfide	100		100		59-130	0		30
2-Butanone	112		106		70-130	6		30
4-Methyl-2-pentanone	103		104		70-130	1		30
2-Hexanone	99		101		70-130	2		30
Bromochloromethane	108		106		70-130	2		30
1,2-Dibromoethane	115		116		70-130	1		30
1,2-Dibromo-3-chloropropane	109		112		68-130	3		30
Isopropylbenzene	102		104		70-130	2		30
1,2,3-Trichlorobenzene	100		104		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1556776-3 WG1556776-4								
1,2,4-Trichlorobenzene	100		103		70-130	3		30
Methyl Acetate	111		110		51-146	1		30
Cyclohexane	108		110		59-142	2		30
1,4-Dioxane	111		113		65-136	2		30
Freon-113	108		108		50-139	0		30
Methyl cyclohexane	104		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1557045-3 WG1557045-4								
Methylene chloride	101		101		70-130	0		30
1,1-Dichloroethane	115		114		70-130	1		30
Chloroform	108		107		70-130	1		30
Carbon tetrachloride	114		115		70-130	1		30
1,2-Dichloropropane	112		111		70-130	1		30
Dibromochloromethane	95		96		70-130	1		30
1,1,2-Trichloroethane	108		108		70-130	0		30
Tetrachloroethene	112		113		70-130	1		30
Chlorobenzene	108		107		70-130	1		30
Trichlorofluoromethane	115		114		70-139	1		30
1,2-Dichloroethane	106		107		70-130	1		30
1,1,1-Trichloroethane	119		119		70-130	0		30
Bromodichloromethane	111		112		70-130	1		30
trans-1,3-Dichloropropene	112		113		70-130	1		30
cis-1,3-Dichloropropene	114		114		70-130	0		30
Bromoform	105		105		70-130	0		30
1,1,2,2-Tetrachloroethane	109		108		70-130	1		30
Benzene	113		113		70-130	0		30
Toluene	109		108		70-130	1		30
Ethylbenzene	108		108		70-130	0		30
Chloromethane	122		120		52-130	2		30
Bromomethane	110		111		57-147	1		30
Vinyl chloride	126		125		67-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1557045-3 WG1557045-4								
Chloroethane	134		132		50-151	2		30
1,1-Dichloroethene	114		114		65-135	0		30
trans-1,2-Dichloroethene	110		110		70-130	0		30
Trichloroethene	114		113		70-130	1		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	104		103		70-130	1		30
Methyl tert butyl ether	104		103		66-130	1		30
p/m-Xylene	112		112		70-130	0		30
o-Xylene	111		111		70-130	0		30
cis-1,2-Dichloroethene	107		108		70-130	1		30
Styrene	108		109		70-130	1		30
Dichlorodifluoromethane	120		118		30-146	2		30
Acetone	107		106		54-140	1		30
Carbon disulfide	110		110		59-130	0		30
2-Butanone	119		117		70-130	2		30
4-Methyl-2-pentanone	102		105		70-130	3		30
2-Hexanone	102		101		70-130	1		30
Bromochloromethane	104		104		70-130	0		30
1,2-Dibromoethane	112		113		70-130	1		30
1,2-Dibromo-3-chloropropane	101		105		68-130	4		30
Isopropylbenzene	111		111		70-130	0		30
1,2,3-Trichlorobenzene	100		102		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1557045-3 WG1557045-4								
1,2,4-Trichlorobenzene	102		104		70-130	2		30
Methyl Acetate	109		109		51-146	0		30
Cyclohexane	121		122		59-142	1		30
1,4-Dioxane	108		115		65-136	6		30
Freon-113	118		117		50-139	1		30
Methyl cyclohexane	114		114		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	100		101		70-130

SEMIVOLATILES

Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-01 D2

Client ID: DOC5E-02-211006-1010

Sample Location: ROME, NY

Date Collected: 10/06/21 10:10

Date Received: 10/06/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8270D

Analytical Date: 10/12/21 18:03

Analyst: JG

Percent Solids: 79%

Extraction Method: EPA 3546

Extraction Date: 10/07/21 13:46

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

Fluoranthene	220000		ug/kg	6200	1200	50
Phenanthrene	200000		ug/kg	6200	1200	50
Pyrene	160000		ug/kg	6200	1000	50

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-01 D
 Client ID: DOC5E-02-211006-1010
 Sample Location: ROME, NY

Date Collected: 10/06/21 10:10
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/21 13:32
 Analyst: IM
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	30000		ug/kg	1600	210	10
Hexachlorobenzene	ND		ug/kg	1200	230	10
Bis(2-chloroethyl)ether	ND		ug/kg	1800	280	10
2-Chloronaphthalene	ND		ug/kg	2000	200	10
3,3'-Dichlorobenzidine	ND		ug/kg	2000	550	10
2,4-Dinitrotoluene	ND		ug/kg	2000	410	10
2,6-Dinitrotoluene	ND		ug/kg	2000	350	10
Fluoranthene	190000	E	ug/kg	1200	240	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2000	220	10
4-Bromophenyl phenyl ether	ND		ug/kg	2000	310	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2500	350	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2200	200	10
Hexachlorobutadiene	ND		ug/kg	2000	300	10
Hexachlorocyclopentadiene	ND		ug/kg	5900	1900	10
Hexachloroethane	ND		ug/kg	1600	330	10
Isophorone	ND		ug/kg	1800	270	10
Naphthalene	81000		ug/kg	2000	250	10
Nitrobenzene	ND		ug/kg	1800	300	10
NDPA/DPA	ND		ug/kg	1600	230	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2000	320	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2000	710	10
Butyl benzyl phthalate	ND		ug/kg	2000	520	10
Di-n-butylphthalate	ND		ug/kg	2000	390	10
Di-n-octylphthalate	ND		ug/kg	2000	700	10
Diethyl phthalate	ND		ug/kg	2000	190	10
Dimethyl phthalate	ND		ug/kg	2000	430	10
Benzo(a)anthracene	64000		ug/kg	1200	230	10
Benzo(a)pyrene	45000		ug/kg	1600	500	10

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-01 D

Date Collected: 10/06/21 10:10

Client ID: DOC5E-02-211006-1010

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	70000		ug/kg	1200	340	10
Benzo(k)fluoranthene	24000		ug/kg	1200	330	10
Chrysene	63000		ug/kg	1200	210	10
Acenaphthylene	16000		ug/kg	1600	320	10
Anthracene	49000		ug/kg	1200	400	10
Benzo(ghi)perylene	22000		ug/kg	1600	240	10
Fluorene	51000		ug/kg	2000	200	10
Phenanthrene	170000	E	ug/kg	1200	250	10
Dibenzo(a,h)anthracene	6400		ug/kg	1200	240	10
Indeno(1,2,3-cd)pyrene	25000		ug/kg	1600	290	10
Pyrene	150000	E	ug/kg	1200	200	10
Biphenyl	2900	J	ug/kg	4700	480	10
4-Chloroaniline	ND		ug/kg	2000	370	10
2-Nitroaniline	ND		ug/kg	2000	400	10
3-Nitroaniline	ND		ug/kg	2000	390	10
4-Nitroaniline	ND		ug/kg	2000	850	10
Dibenzofuran	25000		ug/kg	2000	190	10
2-Methylnaphthalene	18000		ug/kg	2500	250	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2000	210	10
Acetophenone	ND		ug/kg	2000	250	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	390	10
p-Chloro-m-cresol	ND		ug/kg	2000	300	10
2-Chlorophenol	ND		ug/kg	2000	240	10
2,4-Dichlorophenol	ND		ug/kg	1800	330	10
2,4-Dimethylphenol	710	J	ug/kg	2000	680	10
2-Nitrophenol	ND		ug/kg	4400	770	10
4-Nitrophenol	ND		ug/kg	2900	840	10
2,4-Dinitrophenol	ND		ug/kg	9800	960	10
4,6-Dinitro-o-cresol	ND		ug/kg	5300	980	10
Pentachlorophenol	ND		ug/kg	1600	450	10
Phenol	770	J	ug/kg	2000	310	10
2-Methylphenol	440	J	ug/kg	2000	320	10
3-Methylphenol/4-Methylphenol	1200	J	ug/kg	3000	320	10
2,4,5-Trichlorophenol	ND		ug/kg	2000	390	10
Carbazole	19000		ug/kg	2000	200	10
Atrazine	ND		ug/kg	1600	720	10
Benzaldehyde	ND		ug/kg	2700	550	10

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-01 D
 Client ID: DOC5E-02-211006-1010
 Sample Location: ROME, NY

Date Collected: 10/06/21 10:10
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	2000	620	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2000	410	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	76		18-120

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-02 D
 Client ID: DOC5E-01-211006-1040
 Sample Location: ROME, NY

Date Collected: 10/06/21 10:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/21 15:02
 Analyst: IM
 Percent Solids: 71%

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	680	J	ug/kg	1800	240	10
Hexachlorobenzene	ND		ug/kg	1400	260	10
Bis(2-chloroethyl)ether	ND		ug/kg	2000	310	10
2-Chloronaphthalene	ND		ug/kg	2300	230	10
3,3'-Dichlorobenzidine	ND		ug/kg	2300	610	10
2,4-Dinitrotoluene	ND		ug/kg	2300	460	10
2,6-Dinitrotoluene	ND		ug/kg	2300	390	10
Fluoranthene	7200		ug/kg	1400	260	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2300	240	10
4-Bromophenyl phenyl ether	ND		ug/kg	2300	350	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2700	390	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2500	230	10
Hexachlorobutadiene	ND		ug/kg	2300	330	10
Hexachlorocyclopentadiene	ND		ug/kg	6500	2100	10
Hexachloroethane	ND		ug/kg	1800	370	10
Isophorone	ND		ug/kg	2000	300	10
Naphthalene	430	J	ug/kg	2300	280	10
Nitrobenzene	ND		ug/kg	2000	340	10
NDPA/DPA	ND		ug/kg	1800	260	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2300	350	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2300	790	10
Butyl benzyl phthalate	ND		ug/kg	2300	580	10
Di-n-butylphthalate	ND		ug/kg	2300	430	10
Di-n-octylphthalate	ND		ug/kg	2300	780	10
Diethyl phthalate	ND		ug/kg	2300	210	10
Dimethyl phthalate	ND		ug/kg	2300	480	10
Benzo(a)anthracene	3300		ug/kg	1400	260	10
Benzo(a)pyrene	3000		ug/kg	1800	560	10

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-02 D

Date Collected: 10/06/21 10:40

Client ID: DOC5E-01-211006-1040

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	3700		ug/kg	1400	380	10
Benzo(k)fluoranthene	1300	J	ug/kg	1400	360	10
Chrysene	3100		ug/kg	1400	240	10
Acenaphthylene	440	J	ug/kg	1800	350	10
Anthracene	1600		ug/kg	1400	440	10
Benzo(ghi)perylene	1800		ug/kg	1800	270	10
Fluorene	750	J	ug/kg	2300	220	10
Phenanthrene	6100		ug/kg	1400	280	10
Dibenzo(a,h)anthracene	490	J	ug/kg	1400	260	10
Indeno(1,2,3-cd)pyrene	2400		ug/kg	1800	320	10
Pyrene	6100		ug/kg	1400	230	10
Biphenyl	ND		ug/kg	5200	530	10
4-Chloroaniline	ND		ug/kg	2300	420	10
2-Nitroaniline	ND		ug/kg	2300	440	10
3-Nitroaniline	ND		ug/kg	2300	430	10
4-Nitroaniline	ND		ug/kg	2300	940	10
Dibenzofuran	500	J	ug/kg	2300	220	10
2-Methylnaphthalene	ND		ug/kg	2700	280	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2300	240	10
Acetophenone	ND		ug/kg	2300	280	10
2,4,6-Trichlorophenol	ND		ug/kg	1400	430	10
p-Chloro-m-cresol	ND		ug/kg	2300	340	10
2-Chlorophenol	ND		ug/kg	2300	270	10
2,4-Dichlorophenol	ND		ug/kg	2000	370	10
2,4-Dimethylphenol	ND		ug/kg	2300	750	10
2-Nitrophenol	ND		ug/kg	4900	860	10
4-Nitrophenol	ND		ug/kg	3200	930	10
2,4-Dinitrophenol	ND		ug/kg	11000	1100	10
4,6-Dinitro-o-cresol	ND		ug/kg	5900	1100	10
Pentachlorophenol	ND		ug/kg	1800	500	10
Phenol	ND		ug/kg	2300	340	10
2-Methylphenol	ND		ug/kg	2300	350	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	3300	360	10
2,4,5-Trichlorophenol	ND		ug/kg	2300	440	10
Carbazole	620	J	ug/kg	2300	220	10
Atrazine	ND		ug/kg	1800	800	10
Benzaldehyde	ND		ug/kg	3000	620	10

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-02 D
 Client ID: DOC5E-01-211006-1040
 Sample Location: ROME, NY

Date Collected: 10/06/21 10:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	2300	690	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2300	460	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	31		10-136
4-Terphenyl-d14	60		18-120

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-03

Date Collected: 10/06/21 11:30

Client ID: DOC5E-05-211006-11:30

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 10/07/21 13:46

Analytical Date: 10/08/21 02:15

Analyst: EK

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	34	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	120		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	53	J	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
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	35	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-03

Date Collected: 10/06/21 11:30

Client ID: DOC5E-05-211006-11:30

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	31	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	39	J	ug/kg	200	20.	1
Phenanthrene	160		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	86	J	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	23	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	ND		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	71.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-03

Date Collected: 10/06/21 11:30

Client ID: DOC5E-05-211006-11:30

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	62.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	61		18-120

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-04 D2
Client ID: DOC5E-07-211006-1245
Sample Location: ROME, NY

Date Collected: 10/06/21 12:45
Date Received: 10/06/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/12/21 14:17
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	46000		ug/kg	4100	530	25
Naphthalene	160000		ug/kg	5100	620	25
Fluorene	42000		ug/kg	5100	500	25
Phenanthrene	75000		ug/kg	3100	620	25
2-Methylnaphthalene	90000		ug/kg	6100	620	25

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-04 D
 Client ID: DOC5E-07-211006-1245
 Sample Location: ROME, NY

Date Collected: 10/06/21 12:45
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/21 04:16
 Analyst: CMM
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	46000	E	ug/kg	820	100	5
Hexachlorobenzene	ND		ug/kg	610	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	920	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	270	5
2,4-Dinitrotoluene	ND		ug/kg	1000	200	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	37000		ug/kg	610	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	2900	930	5
Hexachloroethane	ND		ug/kg	820	160	5
Isophorone	ND		ug/kg	920	130	5
Naphthalene	120000	E	ug/kg	1000	120	5
Nitrobenzene	ND		ug/kg	920	150	5
NDPA/DPA	ND		ug/kg	820	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	350	5
Butyl benzyl phthalate	ND		ug/kg	1000	260	5
Di-n-butylphthalate	ND		ug/kg	1000	190	5
Di-n-octylphthalate	ND		ug/kg	1000	350	5
Diethyl phthalate	ND		ug/kg	1000	95.	5
Dimethyl phthalate	ND		ug/kg	1000	210	5
Benzo(a)anthracene	12000		ug/kg	610	120	5
Benzo(a)pyrene	6100		ug/kg	820	250	5

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-04 D

Date Collected: 10/06/21 12:45

Client ID: DOC5E-07-211006-1245

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	9000		ug/kg	610	170	5
Benzo(k)fluoranthene	3200		ug/kg	610	160	5
Chrysene	10000		ug/kg	610	110	5
Acenaphthylene	2400		ug/kg	820	160	5
Anthracene	19000		ug/kg	610	200	5
Benzo(ghi)perylene	2400		ug/kg	820	120	5
Fluorene	42000	E	ug/kg	1000	99.	5
Phenanthrene	68000	E	ug/kg	610	120	5
Dibenzo(a,h)anthracene	790		ug/kg	610	120	5
Indeno(1,2,3-cd)pyrene	3000		ug/kg	820	140	5
Pyrene	27000		ug/kg	610	100	5
Biphenyl	15000		ug/kg	2300	240	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	190	5
4-Nitroaniline	ND		ug/kg	1000	420	5
Dibenzofuran	36000		ug/kg	1000	97.	5
2-Methylnaphthalene	72000	E	ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	110	5
Acetophenone	ND		ug/kg	1000	130	5
2,4,6-Trichlorophenol	ND		ug/kg	610	190	5
p-Chloro-m-cresol	ND		ug/kg	1000	150	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	920	160	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	380	5
4-Nitrophenol	ND		ug/kg	1400	420	5
2,4-Dinitrophenol	ND		ug/kg	4900	480	5
4,6-Dinitro-o-cresol	ND		ug/kg	2600	490	5
Pentachlorophenol	ND		ug/kg	820	220	5
Phenol	ND		ug/kg	1000	150	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1500	160	5
2,4,5-Trichlorophenol	ND		ug/kg	1000	200	5
Carbazole	2100		ug/kg	1000	99.	5
Atrazine	ND		ug/kg	820	360	5
Benzaldehyde	ND		ug/kg	1400	280	5

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-04 D
 Client ID: DOC5E-07-211006-1245
 Sample Location: ROME, NY

Date Collected: 10/06/21 12:45
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1000	310	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	67		18-120

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-05
 Client ID: DOC5E-08-211006-1320
 Sample Location: ROME, NY

Date Collected: 10/06/21 13:20
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/08/21 01:53
 Analyst: EK
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	48	J	ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	78	J	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	480		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-05

Date Collected: 10/06/21 13:20

Client ID: DOC5E-08-211006-1320

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	51	J	ug/kg	210	20.	1
Phenanthrene	94	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	39	J	ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	42	J	ug/kg	210	20.	1
2-Methylnaphthalene	97	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Carbazole	29	J	ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	73.	1
Benzaldehyde	ND		ug/kg	270	56.	1

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-05

Date Collected: 10/06/21 13:20

Client ID: DOC5E-08-211006-1320

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	210	63.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	60		18-120

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-06
 Client ID: DOC5E-09-211006-1340
 Sample Location: ROME, NY

Date Collected: 10/06/21 13:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/08/21 01:31
 Analyst: EK
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	40	J	ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	650		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-06
 Client ID: DOC5E-09-211006-1340
 Sample Location: ROME, NY

Date Collected: 10/06/21 13:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	55	J	ug/kg	200	19.	1
Phenanthrene	47	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	33	J	ug/kg	200	19.	1
2-Methylnaphthalene	64	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	120	J	ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-06
 Client ID: DOC5E-09-211006-1340
 Sample Location: ROME, NY

Date Collected: 10/06/21 13:40
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	66		18-120

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-07
Client ID: DOC5E-11-211006-1415
Sample Location: ROME, NY

Date Collected: 10/06/21 14:15
Date Received: 10/06/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/08/21 01:09
Analyst: EK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	310		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-07

Date Collected: 10/06/21 14:15

Client ID: DOC5E-11-211006-1415

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	22	J	ug/kg	210	20.	1
Phenanthrene	30	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Carbazole	45	J	ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	73.	1
Benzaldehyde	ND		ug/kg	280	56.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-07

Date Collected: 10/06/21 14:15

Client ID: DOC5E-11-211006-1415

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	210	63.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	47		18-120

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**SAMPLE RESULTS**

Lab ID: L2154507-08
 Client ID: DOC5E-12-211006-1435
 Sample Location: ROME, NY

Date Collected: 10/06/21 14:35
 Date Received: 10/06/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/08/21 00:48
 Analyst: EK
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-08

Date Collected: 10/06/21 14:35

Client ID: DOC5E-12-211006-1435

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Carbazole	ND		ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	73.	1
Benzaldehyde	ND		ug/kg	270	56.	1

Project Name: LOT SE IRM

Lab Number: L2154507

Project Number: 127887-020

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-08

Date Collected: 10/06/21 14:35

Client ID: DOC5E-12-211006-1435

Date Received: 10/06/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	210	63.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	62		18-120

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/21 23:20
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1555754-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
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	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	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.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/07/21 23:20
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1555754-1					
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 10/07/21 23:20
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 10/07/21 13:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1555754-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1555754-2 WG1555754-3								
Acenaphthene	58		57		31-137	2		50
Hexachlorobenzene	55		54		40-140	2		50
Bis(2-chloroethyl)ether	60		58		40-140	3		50
2-Chloronaphthalene	59		56		40-140	5		50
3,3'-Dichlorobenzidine	53		51		40-140	4		50
2,4-Dinitrotoluene	60		58		40-132	3		50
2,6-Dinitrotoluene	61		61		40-140	0		50
Fluoranthene	60		60		40-140	0		50
4-Chlorophenyl phenyl ether	57		57		40-140	0		50
4-Bromophenyl phenyl ether	56		56		40-140	0		50
Bis(2-chloroisopropyl)ether	64		62		40-140	3		50
Bis(2-chloroethoxy)methane	63		60		40-117	5		50
Hexachlorobutadiene	54		53		40-140	2		50
Hexachlorocyclopentadiene	49		49		40-140	0		50
Hexachloroethane	56		56		40-140	0		50
Isophorone	66		64		40-140	3		50
Naphthalene	60		58		40-140	3		50
Nitrobenzene	64		62		40-140	3		50
NDPA/DPA	62		59		36-157	5		50
n-Nitrosodi-n-propylamine	66		63		32-121	5		50
Bis(2-ethylhexyl)phthalate	69		67		40-140	3		50
Butyl benzyl phthalate	67		66		40-140	2		50
Di-n-butylphthalate	67		66		40-140	2		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1555754-2 WG1555754-3								
Di-n-octylphthalate	68		68		40-140	0		50
Diethyl phthalate	61		60		40-140	2		50
Dimethyl phthalate	62		62		40-140	0		50
Benzo(a)anthracene	61		60		40-140	2		50
Benzo(a)pyrene	61		62		40-140	2		50
Benzo(b)fluoranthene	58		58		40-140	0		50
Benzo(k)fluoranthene	64		62		40-140	3		50
Chrysene	57		57		40-140	0		50
Acenaphthylene	62		61		40-140	2		50
Anthracene	59		59		40-140	0		50
Benzo(ghi)perylene	59		58		40-140	2		50
Fluorene	60		58		40-140	3		50
Phenanthrene	59		57		40-140	3		50
Dibenzo(a,h)anthracene	64		62		40-140	3		50
Indeno(1,2,3-cd)pyrene	58		57		40-140	2		50
Pyrene	60		58		35-142	3		50
Biphenyl	58		57		37-127	2		50
4-Chloroaniline	58		57		40-140	2		50
2-Nitroaniline	61		60		47-134	2		50
3-Nitroaniline	51		50		26-129	2		50
4-Nitroaniline	56		54		41-125	4		50
Dibenzofuran	58		56		40-140	4		50
2-Methylnaphthalene	57		56		40-140	2		50

Lab Control Sample Analysis Batch Quality Control

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1555754-2 WG1555754-3								
1,2,4,5-Tetrachlorobenzene	55		55		40-117	0		50
Acetophenone	59		58		14-144	2		50
2,4,6-Trichlorophenol	59		58		30-130	2		50
p-Chloro-m-cresol	66		65		26-103	2		50
2-Chlorophenol	62		60		25-102	3		50
2,4-Dichlorophenol	63		62		30-130	2		50
2,4-Dimethylphenol	69		67		30-130	3		50
2-Nitrophenol	62		60		30-130	3		50
4-Nitrophenol	63		64		11-114	2		50
2,4-Dinitrophenol	26		24		4-130	8		50
4,6-Dinitro-o-cresol	57		54		10-130	5		50
Pentachlorophenol	50		48		17-109	4		50
Phenol	66		65		26-90	2		50
2-Methylphenol	66		65		30-130.	2		50
3-Methylphenol/4-Methylphenol	70		70		30-130	0		50
2,4,5-Trichlorophenol	60		59		30-130	2		50
Carbazole	60		59		54-128	2		50
Atrazine	66		64		40-140	3		50
Benzaldehyde	57		56		40-140	2		50
Caprolactam	61		60		15-130	2		50
2,3,4,6-Tetrachlorophenol	57		55		40-140	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1555754-2 WG1555754-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		61		25-120
Phenol-d6	69		62		10-120
Nitrobenzene-d5	66		61		23-120
2-Fluorobiphenyl	61		56		30-120
2,4,6-Tribromophenol	56		53		10-136
4-Terphenyl-d14	66		61		18-120

INORGANICS & MISCELLANEOUS

Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS****Lab ID:** L2154507-01**Client ID:** DOC5E-02-211006-1010**Sample Location:** ROME, NY**Date Collected:** 10/06/21 10:10**Date Received:** 10/06/21**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	79.4		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS****Lab ID:** L2154507-02**Client ID:** DOC5E-01-211006-1040**Sample Location:** ROME, NY**Date Collected:** 10/06/21 10:40**Date Received:** 10/06/21**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	71.3		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-03

Client ID: DOC5E-05-211006-11:30

Sample Location: ROME, NY

Date Collected: 10/06/21 11:30

Date Received: 10/06/21

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	81.9		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM

Project Number: 127887-020

Lab Number: L2154507

Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2154507-04

Client ID: DOC5E-07-211006-1245

Sample Location: ROME, NY

Date Collected: 10/06/21 12:45

Date Received: 10/06/21

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	79.0		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS****Lab ID:** L2154507-05**Client ID:** DOC5E-08-211006-1320**Sample Location:** ROME, NY**Date Collected:** 10/06/21 13:20**Date Received:** 10/06/21**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	79.3		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS****Lab ID:** L2154507-06**Client ID:** DOC5E-09-211006-1340**Sample Location:** ROME, NY**Date Collected:** 10/06/21 13:40**Date Received:** 10/06/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS****Lab ID:** L2154507-07**Client ID:** DOC5E-11-211006-1415**Sample Location:** ROME, NY**Date Collected:** 10/06/21 14:15**Date Received:** 10/06/21**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	79.6		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Project Name: LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21**SAMPLE RESULTS****Lab ID:** L2154507-08**Client ID:** DOC5E-12-211006-1435**Sample Location:** ROME, NY**Date Collected:** 10/06/21 14:35**Date Received:** 10/06/21**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	79.1		%	0.100	NA	1	-	10/07/21 10:09	121,2540G	RI



Lab Duplicate Analysis
*Batch Quality Control***Project Name:** LOT SE IRM**Project Number:** 127887-020**Lab Number:** L2154507**Report Date:** 10/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1555594-1 QC Sample: L2154547-01 Client ID: DUP Sample						
Solids, Total	24.7	27.0	%	9		20

Project Name: LOT SE IRM**Lab Number:** L2154507**Project Number:** 127887-020**Report Date:** 10/12/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154507-01A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-01B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-01C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-01D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-01E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-02A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-02B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-02C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-02D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-02E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-03A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-03B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-03C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-03D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-03E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-04A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-04B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-04C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-04D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-04E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-05A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-05B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-05C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)

Project Name: LOT SE IRM
Project Number: 127887-020

Serial_No:10122119:24
Lab Number: L2154507
Report Date: 10/12/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154507-05D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-05E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-06A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-06B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-06C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-06D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-06E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-07A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-07B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-07C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-07D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-07E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L2154507-08A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW-R2(14)
L2154507-08B	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-08C	Vial water preserved	A	NA		2.5	Y	Absent	07-OCT-21 09:55	NYTCL-8260HLW-R2(14)
L2154507-08D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2154507-08E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers



Project Name: LOT SE IRM
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: LOT SE IRM
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Data Qualifiers

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

Project Name: LOT SE IRM
Project Number: 127887-020

Lab Number: L2154507
Report Date: 10/12/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625/625.1: alpha-Terpineol

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, 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 I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

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ANALYTICAL REPORT

Lab Number:	L2154924
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Claire Mondello
Phone:	(585) 321-4219
Project Name:	LOT 5E IRM
Project Number:	127887-020
Report Date:	10/14/21

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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).

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Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2154924-01	DOC5E-16-211007-0740	SOIL	ROME, NY	10/07/21 07:40	10/07/21
L2154924-02	DOC5E-17-211007-0800	SOIL	ROME, NY	10/07/21 08:00	10/07/21
L2154924-03	DOC5E-18-211007-0815	SOIL	ROME, NY	10/07/21 08:15	10/07/21
L2154924-04	DOC5E-19-211007-0825	SOIL	ROME, NY	10/07/21 08:25	10/07/21
L2154924-05	DOC5E-20-211007-0910	SOIL	ROME, NY	10/07/21 09:10	10/07/21
L2154924-06	DOC5E-21-211007-0920	SOIL	ROME, NY	10/07/21 09:20	10/07/21
L2154924-07	DOC5E-22-211007-0940	SOIL	ROME, NY	10/07/21 09:40	10/07/21
L2154924-08	DOC5E-23-211007-1020	SOIL	ROME, NY	10/07/21 10:20	10/07/21
L2154924-09	DOC5E-24-211007-1045	SOIL	ROME, NY	10/07/21 10:45	10/07/21
L2154924-10	DOC5E-25-211007-1125	SOIL	ROME, NY	10/07/21 11:25	10/07/21
L2154924-11	DOC5E-32-211007-1420	SOIL	ROME, NY	10/07/21 14:20	10/07/21
L2154924-12	DOC5E-13-211007-1445	SOIL	ROME, NY	10/07/21 14:45	10/07/21
L2154924-13	DOC5E-10-211007-1500	SOIL	ROME, NY	10/07/21 15:00	10/07/21
L2154924-14	DOC5E-03-211007-1600	SOIL	ROME, NY	10/07/21 16:00	10/07/21
L2154924-15	4125-211007-0001	SOIL	ROME, NY	10/07/21 00:00	10/07/21
L2154924-16	4125-211007-0002	SOIL	ROME, NY	10/07/21 00:00	10/07/21

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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.

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Case Narrative (continued)

Report Submission

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

Sample Receipt

L2154924-05A: The container for Volatile Organics - High Level was received empty.

L2154924-09: The collection date and time on the chain of custody was 07-OCT-21 10:49; however, the collection date/time on the container label was 07-OCT-21 10:45. At the client's request, the collection date/time is reported as 07-OCT-21 10:45.

Volatile Organics

L2154924-01, -07, and -16: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2154924-02: The surrogate recovery is outside the acceptance criteria for 1,2-dichloroethane-d4 (135%), 4-bromofluorobenzene (156%) and dibromofluoromethane (137%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2154924-05: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2154924-06D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2154924-14: The surrogate recoveries were outside the acceptance criteria for 1,2-dichloroethane-d4 (137%) and dibromofluoromethane (133%); however, re-analysis achieved similar results: 1,2-dichloroethane-d4 (137%) and dibromofluoromethane (138%). The results of both analyses are reported; however, all associated compounds are considered to have a potential bias.

The WG1558023-3 LCS recoveries, associated with L2154924-10, are above the individual acceptance criteria for chloromethane (134%), vinyl chloride (136%) and 2-butanone (137%), but within the overall method

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Case Narrative (continued)

allowances. The results of the associated sample are reported.

The WG1558023-4 LCSD recovery, associated with L2154924-10, is above the individual acceptance criteria for 2-butanone (136%), but within the overall method allowances. The results of the associated samples are reported.

The WG1557735-8 MS recoveries, performed on L2154924-11, are outside the acceptance criteria for acetone (53%) and acrylonitrile (137%); however, the associated LCS/LCSD recoveries are within overall method allowances. No further action was required.

The WG1557735-9 MSD recoveries, performed on L2154924-11, are outside the acceptance criteria for acetone (50%), 2-butanone (52%), 2-hexanone (55%) and bromochloromethane (67%); however, the associated LCS/LCSD recoveries are within overall method allowances. No further action was required.

Semivolatile Organics

L2154924-01D, -02D, -05D, -06D, -14D, and -16D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2154924-05D: The surrogate recovery is outside the individual acceptance criteria for nitrobenzene-d5 (13%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

L2154924-07, -14D and -16D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2154924-16D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

The WG1556395-2 LCS recovery, associated with L2154924-01D, -02D, -03, -04, -06D, -07, -07D, -08, -09, -10, -11, -13, -14D, -14D2, and -15, is above the individual acceptance criteria for phenol (97%), but

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Case Narrative (continued)

within the overall method allowances. The results of the associated samples are reported.

The WG1556395-3 LCSD recoveries, associated with L2154924-01D, -02D, -03, -04, -06D, -07, -07D, -08, -09, -10, -11, -13, -14D, -14D2, and -15, are above the individual acceptance criteria for p-chloro-m-cresol (107%) and phenol (107%), but within the overall method allowances. The results of the associated samples are reported.

The WG1556395-7 MSD recovery, performed on L2154924-13, is outside the acceptance criteria for phenol (92%).

PAHs

The WG1556449-3 LCSD recoveries, associated with L2154924-05D, are above the individual acceptance criteria for p-chloro-m-cresol (112%), 4-nitrophenol (126%) and caprolactam (136%), but within the overall method allowances. The results of the associated samples are reported.

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 10/14/21

ORGANICS

VOLATILES

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-01
 Client ID: DOC5E-16-211007-0740
 Sample Location: ROME, NY

Date Collected: 10/07/21 07:40
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/21 22:37
 Analyst: JC
 Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	250	110	1
1,1-Dichloroethane	ND		ug/kg	50	7.2	1
Chloroform	ND		ug/kg	74	6.9	1
Carbon tetrachloride	ND		ug/kg	50	11.	1
1,2-Dichloropropane	ND		ug/kg	50	6.2	1
Dibromochloromethane	ND		ug/kg	50	6.9	1
1,1,2-Trichloroethane	ND		ug/kg	50	13.	1
Tetrachloroethene	ND		ug/kg	25	9.7	1
Chlorobenzene	ND		ug/kg	25	6.3	1
Trichlorofluoromethane	ND		ug/kg	200	34.	1
1,2-Dichloroethane	ND		ug/kg	50	13.	1
1,1,1-Trichloroethane	ND		ug/kg	25	8.3	1
Bromodichloromethane	ND		ug/kg	25	5.4	1
trans-1,3-Dichloropropene	ND		ug/kg	50	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	25	7.8	1
Bromoform	ND		ug/kg	200	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.2	1
Benzene	770		ug/kg	25	8.2	1
Toluene	49	J	ug/kg	50	27.	1
Ethylbenzene	380		ug/kg	50	7.0	1
Chloromethane	61	J	ug/kg	200	46.	1
Bromomethane	ND		ug/kg	99	29.	1
Vinyl chloride	ND		ug/kg	50	17.	1
Chloroethane	ND		ug/kg	99	22.	1
1,1-Dichloroethene	ND		ug/kg	50	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	74	6.8	1
Trichloroethene	ND		ug/kg	25	6.8	1
1,2-Dichlorobenzene	ND		ug/kg	99	7.1	1

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Lab Number: L2154924

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SAMPLE RESULTS

Lab ID: L2154924-01

Date Collected: 10/07/21 07:40

Client ID: DOC5E-16-211007-0740

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	99	7.3	1
1,4-Dichlorobenzene	ND		ug/kg	99	8.5	1
Methyl tert butyl ether	ND		ug/kg	99	10.	1
p/m-Xylene	340		ug/kg	99	28.	1
o-Xylene	430		ug/kg	50	14.	1
cis-1,2-Dichloroethene	ND		ug/kg	50	8.7	1
Styrene	ND		ug/kg	50	9.7	1
Dichlorodifluoromethane	ND		ug/kg	500	45.	1
Acetone	ND		ug/kg	500	240	1
Carbon disulfide	ND		ug/kg	500	220	1
2-Butanone	ND		ug/kg	500	110	1
4-Methyl-2-pentanone	ND		ug/kg	500	63.	1
2-Hexanone	ND		ug/kg	500	58.	1
Bromochloromethane	ND		ug/kg	99	10.	1
1,2-Dibromoethane	ND		ug/kg	50	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	49.	1
Isopropylbenzene	220		ug/kg	50	5.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	99	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	99	13.	1
Methyl Acetate	ND		ug/kg	200	47.	1
Cyclohexane	ND		ug/kg	500	27.	1
1,4-Dioxane	ND		ug/kg	4000	1700	1
Freon-113	ND		ug/kg	200	34.	1
Methyl cyclohexane	ND		ug/kg	200	30.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	116		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-02
 Client ID: DOC5E-17-211007-0800
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/21 21:36
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.5	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.71	0.10	1
Chloroform	ND		ug/kg	1.1	0.10	1
Carbon tetrachloride	ND		ug/kg	0.71	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.71	0.09	1
Dibromochloromethane	ND		ug/kg	0.71	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.71	0.19	1
Tetrachloroethene	ND		ug/kg	0.35	0.14	1
Chlorobenzene	ND		ug/kg	0.35	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.8	0.49	1
1,2-Dichloroethane	ND		ug/kg	0.71	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.35	0.12	1
Bromodichloromethane	ND		ug/kg	0.35	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.71	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.35	0.11	1
Bromoform	ND		ug/kg	2.8	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.35	0.12	1
Benzene	5.9		ug/kg	0.35	0.12	1
Toluene	ND		ug/kg	0.71	0.38	1
Ethylbenzene	110		ug/kg	0.71	0.10	1
Chloromethane	ND		ug/kg	2.8	0.66	1
Bromomethane	ND		ug/kg	1.4	0.41	1
Vinyl chloride	ND		ug/kg	0.71	0.24	1
Chloroethane	ND		ug/kg	1.4	0.32	1
1,1-Dichloroethene	ND		ug/kg	0.71	0.17	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.35	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1

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SAMPLE RESULTS

Lab ID: L2154924-02

Date Collected: 10/07/21 08:00

Client ID: DOC5E-17-211007-0800

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	170		ug/kg	1.4	0.40	1
o-Xylene	37		ug/kg	0.71	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	0.71	0.12	1
Styrene	0.41	J	ug/kg	0.71	0.14	1
Dichlorodifluoromethane	ND		ug/kg	7.1	0.65	1
Acetone	14		ug/kg	7.1	3.4	1
Carbon disulfide	ND		ug/kg	7.1	3.2	1
2-Butanone	ND		ug/kg	7.1	1.6	1
4-Methyl-2-pentanone	ND		ug/kg	7.1	0.91	1
2-Hexanone	ND		ug/kg	7.1	0.84	1
Bromochloromethane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.71	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.71	1
Isopropylbenzene	200		ug/kg	0.71	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
Methyl Acetate	ND		ug/kg	2.8	0.67	1
Cyclohexane	0.53	J	ug/kg	7.1	0.38	1
1,4-Dioxane	ND		ug/kg	57	25.	1
Freon-113	ND		ug/kg	2.8	0.49	1
Methyl cyclohexane	7.4		ug/kg	2.8	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	135	Q	70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	156	Q	70-130
Dibromofluoromethane	137	Q	70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-03
 Client ID: DOC5E-18-211007-0815
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:15
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/21 21:56
 Analyst: JC
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.75	0.11	1
Chloroform	ND		ug/kg	1.1	0.10	1
Carbon tetrachloride	ND		ug/kg	0.75	0.17	1
1,2-Dichloropropane	ND		ug/kg	0.75	0.09	1
Dibromochloromethane	ND		ug/kg	0.75	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.75	0.20	1
Tetrachloroethene	ND		ug/kg	0.37	0.15	1
Chlorobenzene	ND		ug/kg	0.37	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.52	1
1,2-Dichloroethane	ND		ug/kg	0.75	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	0.12	1
Bromodichloromethane	ND		ug/kg	0.37	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.75	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	0.12	1
Bromoform	ND		ug/kg	3.0	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	0.12	1
Benzene	0.72		ug/kg	0.37	0.12	1
Toluene	ND		ug/kg	0.75	0.41	1
Ethylbenzene	1.8		ug/kg	0.75	0.10	1
Chloromethane	ND		ug/kg	3.0	0.70	1
Bromomethane	ND		ug/kg	1.5	0.44	1
Vinyl chloride	ND		ug/kg	0.75	0.25	1
Chloroethane	ND		ug/kg	1.5	0.34	1
1,1-Dichloroethene	ND		ug/kg	0.75	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.37	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-03

Date Collected: 10/07/21 08:15

Client ID: DOC5E-18-211007-0815

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	0.69	J	ug/kg	1.5	0.42	1
o-Xylene	0.54	J	ug/kg	0.75	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.75	0.13	1
Styrene	ND		ug/kg	0.75	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.5	0.68	1
Acetone	7.2	J	ug/kg	7.5	3.6	1
Carbon disulfide	ND		ug/kg	7.5	3.4	1
2-Butanone	ND		ug/kg	7.5	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.5	0.96	1
2-Hexanone	ND		ug/kg	7.5	0.88	1
Bromochloromethane	ND		ug/kg	1.5	0.15	1
1,2-Dibromoethane	ND		ug/kg	0.75	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	0.75	1
Isopropylbenzene	1.0		ug/kg	0.75	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.20	1
Methyl Acetate	ND		ug/kg	3.0	0.71	1
Cyclohexane	ND		ug/kg	7.5	0.41	1
1,4-Dioxane	ND		ug/kg	60	26.	1
Freon-113	ND		ug/kg	3.0	0.52	1
Methyl cyclohexane	ND		ug/kg	3.0	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	112		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-04
 Client ID: DOC5E-19-211007-0825
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/21 22:17
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.8	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.76	0.11	1
Chloroform	ND		ug/kg	1.1	0.11	1
Carbon tetrachloride	ND		ug/kg	0.76	0.17	1
1,2-Dichloropropane	ND		ug/kg	0.76	0.10	1
Dibromochloromethane	ND		ug/kg	0.76	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.76	0.20	1
Tetrachloroethene	ND		ug/kg	0.38	0.15	1
Chlorobenzene	ND		ug/kg	0.38	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.53	1
1,2-Dichloroethane	ND		ug/kg	0.76	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	0.38	0.13	1
Bromodichloromethane	ND		ug/kg	0.38	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.38	0.12	1
Bromoform	ND		ug/kg	3.0	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.38	0.12	1
Benzene	0.49		ug/kg	0.38	0.12	1
Toluene	ND		ug/kg	0.76	0.41	1
Ethylbenzene	2.0		ug/kg	0.76	0.11	1
Chloromethane	ND		ug/kg	3.0	0.70	1
Bromomethane	ND		ug/kg	1.5	0.44	1
Vinyl chloride	ND		ug/kg	0.76	0.25	1
Chloroethane	ND		ug/kg	1.5	0.34	1
1,1-Dichloroethene	ND		ug/kg	0.76	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.38	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-04

Date Collected: 10/07/21 08:25

Client ID: DOC5E-19-211007-0825

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	1.5		ug/kg	1.5	0.42	1
o-Xylene	1.3		ug/kg	0.76	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	0.13	1
Styrene	ND		ug/kg	0.76	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.6	0.69	1
Acetone	6.9	J	ug/kg	7.6	3.6	1
Carbon disulfide	ND		ug/kg	7.6	3.4	1
2-Butanone	ND		ug/kg	7.6	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.6	0.97	1
2-Hexanone	ND		ug/kg	7.6	0.89	1
Bromochloromethane	ND		ug/kg	1.5	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.76	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.76	1
Isopropylbenzene	1.1		ug/kg	0.76	0.08	1
1,2,3-Trichlorobenzene	0.65	J	ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.21	1
Methyl Acetate	ND		ug/kg	3.0	0.72	1
Cyclohexane	ND		ug/kg	7.6	0.41	1
1,4-Dioxane	ND		ug/kg	60	26.	1
Freon-113	ND		ug/kg	3.0	0.52	1
Methyl cyclohexane	ND		ug/kg	3.0	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-05
 Client ID: DOC5E-20-211007-0910
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:10
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 09:51
 Analyst: KJD
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.80	0.12	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.80	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.80	0.10	1
Dibromochloromethane	ND		ug/kg	0.80	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.80	0.21	1
Tetrachloroethene	ND		ug/kg	0.40	0.16	1
Chlorobenzene	ND		ug/kg	0.40	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.56	1
1,2-Dichloroethane	ND		ug/kg	0.80	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	0.13	1
Bromodichloromethane	ND		ug/kg	0.40	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.80	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	0.13	1
Bromoform	ND		ug/kg	3.2	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	0.13	1
Benzene	ND		ug/kg	0.40	0.13	1
Toluene	ND		ug/kg	0.80	0.43	1
Ethylbenzene	0.12	J	ug/kg	0.80	0.11	1
Chloromethane	ND		ug/kg	3.2	0.74	1
Bromomethane	ND		ug/kg	1.6	0.46	1
Vinyl chloride	ND		ug/kg	0.80	0.27	1
Chloroethane	ND		ug/kg	1.6	0.36	1
1,1-Dichloroethene	ND		ug/kg	0.80	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-05**Date Collected:** 10/07/21 09:10**Client ID:** DOC5E-20-211007-0910**Date Received:** 10/07/21**Sample Location:** ROME, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.45	1
o-Xylene	ND		ug/kg	0.80	0.23	1
cis-1,2-Dichloroethene	ND		ug/kg	0.80	0.14	1
Styrene	0.17	J	ug/kg	0.80	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.0	0.73	1
Acetone	19		ug/kg	8.0	3.8	1
Carbon disulfide	ND		ug/kg	8.0	3.6	1
2-Butanone	4.4	J	ug/kg	8.0	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.0	1.0	1
2-Hexanone	ND		ug/kg	8.0	0.94	1
Bromochloromethane	ND		ug/kg	1.6	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.80	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.80	1
Isopropylbenzene	0.09	J	ug/kg	0.80	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
Methyl Acetate	ND		ug/kg	3.2	0.76	1
Cyclohexane	ND		ug/kg	8.0	0.43	1
1,4-Dioxane	ND		ug/kg	64	28.	1
Freon-113	ND		ug/kg	3.2	0.55	1
Methyl cyclohexane	ND		ug/kg	3.2	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-06 D
 Client ID: DOC5E-21-211007-0920
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 17:23
 Analyst: AJK
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	900	410	4
1,1-Dichloroethane	ND		ug/kg	180	26.	4
Chloroform	ND		ug/kg	270	25.	4
Carbon tetrachloride	ND		ug/kg	180	42.	4
1,2-Dichloropropane	ND		ug/kg	180	23.	4
Dibromochloromethane	ND		ug/kg	180	25.	4
1,1,2-Trichloroethane	ND		ug/kg	180	48.	4
Tetrachloroethene	ND		ug/kg	90	36.	4
Chlorobenzene	ND		ug/kg	90	23.	4
Trichlorofluoromethane	ND		ug/kg	720	120	4
1,2-Dichloroethane	ND		ug/kg	180	46.	4
1,1,1-Trichloroethane	ND		ug/kg	90	30.	4
Bromodichloromethane	ND		ug/kg	90	20.	4
trans-1,3-Dichloropropene	ND		ug/kg	180	49.	4
cis-1,3-Dichloropropene	ND		ug/kg	90	29.	4
Bromoform	ND		ug/kg	720	44.	4
1,1,2,2-Tetrachloroethane	ND		ug/kg	90	30.	4
Benzene	ND		ug/kg	90	30.	4
Toluene	2300		ug/kg	180	98.	4
Ethylbenzene	18000		ug/kg	180	26.	4
Chloromethane	ND		ug/kg	720	170	4
Bromomethane	ND		ug/kg	360	100	4
Vinyl chloride	ND		ug/kg	180	61.	4
Chloroethane	ND		ug/kg	360	82.	4
1,1-Dichloroethene	ND		ug/kg	180	43.	4
trans-1,2-Dichloroethene	ND		ug/kg	270	25.	4
Trichloroethene	ND		ug/kg	90	25.	4
1,2-Dichlorobenzene	35	J	ug/kg	360	26.	4

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-06 D

Date Collected: 10/07/21 09:20

Client ID: DOC5E-21-211007-0920

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	32	J	ug/kg	360	27.	4
1,4-Dichlorobenzene	50	J	ug/kg	360	31.	4
Methyl tert butyl ether	ND		ug/kg	360	36.	4
p/m-Xylene	34000		ug/kg	360	100	4
o-Xylene	11000		ug/kg	180	53.	4
cis-1,2-Dichloroethene	ND		ug/kg	180	32.	4
Styrene	110	J	ug/kg	180	36.	4
Dichlorodifluoromethane	ND		ug/kg	1800	160	4
Acetone	ND		ug/kg	1800	870	4
Carbon disulfide	ND		ug/kg	1800	820	4
2-Butanone	ND		ug/kg	1800	400	4
4-Methyl-2-pentanone	ND		ug/kg	1800	230	4
2-Hexanone	ND		ug/kg	1800	210	4
Bromochloromethane	ND		ug/kg	360	37.	4
1,2-Dibromoethane	ND		ug/kg	180	50.	4
1,2-Dibromo-3-chloropropane	ND		ug/kg	540	180	4
Isopropylbenzene	5700		ug/kg	180	20.	4
1,2,3-Trichlorobenzene	ND		ug/kg	360	58.	4
1,2,4-Trichlorobenzene	ND		ug/kg	360	49.	4
Methyl Acetate	ND		ug/kg	720	170	4
Cyclohexane	ND		ug/kg	1800	98.	4
1,4-Dioxane	ND		ug/kg	14000	6400	4
Freon-113	ND		ug/kg	720	120	4
Methyl cyclohexane	180	J	ug/kg	720	110	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	117		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-07
 Client ID: DOC5E-22-211007-0940
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:40
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/21 23:18
 Analyst: JC
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	220	100	1
1,1-Dichloroethane	ND		ug/kg	44	6.3	1
Chloroform	ND		ug/kg	66	6.1	1
Carbon tetrachloride	ND		ug/kg	44	10.	1
1,2-Dichloropropane	ND		ug/kg	44	5.5	1
Dibromochloromethane	ND		ug/kg	44	6.1	1
1,1,2-Trichloroethane	ND		ug/kg	44	12.	1
Tetrachloroethene	ND		ug/kg	22	8.6	1
Chlorobenzene	ND		ug/kg	22	5.6	1
Trichlorofluoromethane	ND		ug/kg	170	30.	1
1,2-Dichloroethane	ND		ug/kg	44	11.	1
1,1,1-Trichloroethane	ND		ug/kg	22	7.3	1
Bromodichloromethane	ND		ug/kg	22	4.8	1
trans-1,3-Dichloropropene	ND		ug/kg	44	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	22	6.9	1
Bromoform	ND		ug/kg	170	11.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	22	7.2	1
Benzene	ND		ug/kg	22	7.2	1
Toluene	93		ug/kg	44	24.	1
Ethylbenzene	410		ug/kg	44	6.2	1
Chloromethane	54	J	ug/kg	170	41.	1
Bromomethane	ND		ug/kg	87	25.	1
Vinyl chloride	ND		ug/kg	44	15.	1
Chloroethane	ND		ug/kg	87	20.	1
1,1-Dichloroethene	ND		ug/kg	44	10.	1
trans-1,2-Dichloroethene	ND		ug/kg	66	6.0	1
Trichloroethene	ND		ug/kg	22	6.0	1
1,2-Dichlorobenzene	ND		ug/kg	87	6.3	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-07

Date Collected: 10/07/21 09:40

Client ID: DOC5E-22-211007-0940

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	87	6.5	1
1,4-Dichlorobenzene	ND		ug/kg	87	7.5	1
Methyl tert butyl ether	ND		ug/kg	87	8.8	1
p/m-Xylene	840		ug/kg	87	24.	1
o-Xylene	320		ug/kg	44	13.	1
cis-1,2-Dichloroethene	ND		ug/kg	44	7.6	1
Styrene	12	J	ug/kg	44	8.6	1
Dichlorodifluoromethane	ND		ug/kg	440	40.	1
Acetone	ND		ug/kg	440	210	1
Carbon disulfide	ND		ug/kg	440	200	1
2-Butanone	ND		ug/kg	440	97.	1
4-Methyl-2-pentanone	ND		ug/kg	440	56.	1
2-Hexanone	ND		ug/kg	440	52.	1
Bromochloromethane	ND		ug/kg	87	9.0	1
1,2-Dibromoethane	ND		ug/kg	44	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	130	44.	1
Isopropylbenzene	130		ug/kg	44	4.8	1
1,2,3-Trichlorobenzene	ND		ug/kg	87	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	87	12.	1
Methyl Acetate	ND		ug/kg	170	42.	1
Cyclohexane	ND		ug/kg	440	24.	1
1,4-Dioxane	ND		ug/kg	3500	1500	1
Freon-113	ND		ug/kg	170	30.	1
Methyl cyclohexane	ND		ug/kg	170	26.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	118		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-08
 Client ID: DOC5E-23-211007-1020
 Sample Location: ROME, NY

Date Collected: 10/07/21 10:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 13:37
 Analyst: AJK
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.8	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.75	0.11	1
Chloroform	ND		ug/kg	1.1	0.10	1
Carbon tetrachloride	ND		ug/kg	0.75	0.17	1
1,2-Dichloropropane	ND		ug/kg	0.75	0.09	1
Dibromochloromethane	ND		ug/kg	0.75	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.75	0.20	1
Tetrachloroethene	ND		ug/kg	0.38	0.15	1
Chlorobenzene	ND		ug/kg	0.38	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.52	1
1,2-Dichloroethane	ND		ug/kg	0.75	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	0.38	0.12	1
Bromodichloromethane	ND		ug/kg	0.38	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.75	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.38	0.12	1
Bromoform	ND		ug/kg	3.0	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.38	0.12	1
Benzene	0.57		ug/kg	0.38	0.12	1
Toluene	ND		ug/kg	0.75	0.41	1
Ethylbenzene	ND		ug/kg	0.75	0.11	1
Chloromethane	ND		ug/kg	3.0	0.70	1
Bromomethane	ND		ug/kg	1.5	0.44	1
Vinyl chloride	ND		ug/kg	0.75	0.25	1
Chloroethane	ND		ug/kg	1.5	0.34	1
1,1-Dichloroethene	ND		ug/kg	0.75	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.38	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-08

Date Collected: 10/07/21 10:20

Client ID: DOC5E-23-211007-1020

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	ND		ug/kg	1.5	0.42	1
o-Xylene	ND		ug/kg	0.75	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.75	0.13	1
Styrene	ND		ug/kg	0.75	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.5	0.69	1
Acetone	9.8		ug/kg	7.5	3.6	1
Carbon disulfide	ND		ug/kg	7.5	3.4	1
2-Butanone	2.2	J	ug/kg	7.5	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.5	0.96	1
2-Hexanone	ND		ug/kg	7.5	0.89	1
Bromochloromethane	ND		ug/kg	1.5	0.15	1
1,2-Dibromoethane	ND		ug/kg	0.75	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.75	1
Isopropylbenzene	ND		ug/kg	0.75	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.20	1
Methyl Acetate	ND		ug/kg	3.0	0.72	1
Cyclohexane	ND		ug/kg	7.5	0.41	1
1,4-Dioxane	ND		ug/kg	60	26.	1
Freon-113	ND		ug/kg	3.0	0.52	1
Methyl cyclohexane	ND		ug/kg	3.0	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-09
 Client ID: DOC5E-24-211007-1045
 Sample Location: ROME, NY

Date Collected: 10/07/21 10:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/13/21 11:21
 Analyst: MKS
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.63	0.09	1
Chloroform	ND		ug/kg	0.94	0.09	1
Carbon tetrachloride	ND		ug/kg	0.63	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.63	0.08	1
Dibromochloromethane	ND		ug/kg	0.63	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.63	0.17	1
Tetrachloroethene	ND		ug/kg	0.32	0.12	1
Chlorobenzene	ND		ug/kg	0.32	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.5	0.44	1
1,2-Dichloroethane	ND		ug/kg	0.63	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	0.10	1
Bromodichloromethane	ND		ug/kg	0.32	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.63	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	0.10	1
Bromoform	ND		ug/kg	2.5	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	0.10	1
Benzene	2.0		ug/kg	0.32	0.10	1
Toluene	5.9		ug/kg	0.63	0.34	1
Ethylbenzene	30		ug/kg	0.63	0.09	1
Chloromethane	ND		ug/kg	2.5	0.59	1
Bromomethane	ND		ug/kg	1.3	0.37	1
Vinyl chloride	ND		ug/kg	0.63	0.21	1
Chloroethane	ND		ug/kg	1.3	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.63	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.94	0.09	1
Trichloroethene	ND		ug/kg	0.32	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.09	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-09

Date Collected: 10/07/21 10:45

Client ID: DOC5E-24-211007-1045

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	90		ug/kg	1.3	0.35	1
o-Xylene	40		ug/kg	0.63	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.63	0.11	1
Styrene	ND		ug/kg	0.63	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.3	0.58	1
Acetone	10		ug/kg	6.3	3.0	1
Carbon disulfide	ND		ug/kg	6.3	2.9	1
2-Butanone	1.6	J	ug/kg	6.3	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.3	0.81	1
2-Hexanone	ND		ug/kg	6.3	0.74	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.63	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.63	1
Isopropylbenzene	17		ug/kg	0.63	0.07	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.17	1
Methyl Acetate	ND		ug/kg	2.5	0.60	1
Cyclohexane	ND		ug/kg	6.3	0.34	1
1,4-Dioxane	ND		ug/kg	50	22.	1
Freon-113	ND		ug/kg	2.5	0.44	1
Methyl cyclohexane	0.66	J	ug/kg	2.5	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-10
 Client ID: DOC5E-25-211007-1125
 Sample Location: ROME, NY

Date Collected: 10/07/21 11:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 22:29
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.65	0.09	1
Chloroform	ND		ug/kg	0.97	0.09	1
Carbon tetrachloride	ND		ug/kg	0.65	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.65	0.08	1
Dibromochloromethane	ND		ug/kg	0.65	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.65	0.17	1
Tetrachloroethene	ND		ug/kg	0.32	0.13	1
Chlorobenzene	ND		ug/kg	0.32	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.45	1
1,2-Dichloroethane	ND		ug/kg	0.65	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	0.11	1
Bromodichloromethane	ND		ug/kg	0.32	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.65	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	0.11	1
Benzene	ND		ug/kg	0.32	0.11	1
Toluene	ND		ug/kg	0.65	0.35	1
Ethylbenzene	ND		ug/kg	0.65	0.09	1
Chloromethane	ND		ug/kg	2.6	0.60	1
Bromomethane	ND		ug/kg	1.3	0.38	1
Vinyl chloride	ND		ug/kg	0.65	0.22	1
Chloroethane	ND		ug/kg	1.3	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.65	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.97	0.09	1
Trichloroethene	ND		ug/kg	0.32	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.09	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-10
 Client ID: DOC5E-25-211007-1125
 Sample Location: ROME, NY

Date Collected: 10/07/21 11:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	ND		ug/kg	1.3	0.36	1
o-Xylene	ND		ug/kg	0.65	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.65	0.11	1
Styrene	ND		ug/kg	0.65	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.5	0.59	1
Acetone	10		ug/kg	6.5	3.1	1
Carbon disulfide	ND		ug/kg	6.5	2.9	1
2-Butanone	ND		ug/kg	6.5	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.5	0.83	1
2-Hexanone	ND		ug/kg	6.5	0.76	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.65	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.65	1
Isopropylbenzene	ND		ug/kg	0.65	0.07	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
Methyl Acetate	ND		ug/kg	2.6	0.62	1
Cyclohexane	ND		ug/kg	6.5	0.35	1
1,4-Dioxane	ND		ug/kg	52	23.	1
Freon-113	ND		ug/kg	2.6	0.45	1
Methyl cyclohexane	ND		ug/kg	2.6	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-11
 Client ID: DOC5E-32-211007-1420
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 14:59
 Analyst: AJK
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.23	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.29	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-11
 Client ID: DOC5E-32-211007-1420
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	ND		ug/kg	0.88	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.15	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.80	1
Acetone	11		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	ND		ug/kg	8.8	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.88	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
Methyl Acetate	ND		ug/kg	3.5	0.83	1
Cyclohexane	ND		ug/kg	8.8	0.48	1
1,4-Dioxane	ND		ug/kg	70	31.	1
Freon-113	ND		ug/kg	3.5	0.61	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	93		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-12
 Client ID: DOC5E-13-211007-1445
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 14:18
 Analyst: AJK
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.65	0.09	1
Chloroform	ND		ug/kg	0.97	0.09	1
Carbon tetrachloride	ND		ug/kg	0.65	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.65	0.08	1
Dibromochloromethane	ND		ug/kg	0.65	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.65	0.17	1
Tetrachloroethene	ND		ug/kg	0.32	0.13	1
Chlorobenzene	ND		ug/kg	0.32	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.45	1
1,2-Dichloroethane	ND		ug/kg	0.65	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	0.11	1
Bromodichloromethane	ND		ug/kg	0.32	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.65	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	0.11	1
Benzene	42		ug/kg	0.32	0.11	1
Toluene	14		ug/kg	0.65	0.35	1
Ethylbenzene	26		ug/kg	0.65	0.09	1
Chloromethane	ND		ug/kg	2.6	0.60	1
Bromomethane	ND		ug/kg	1.3	0.38	1
Vinyl chloride	ND		ug/kg	0.65	0.22	1
Chloroethane	ND		ug/kg	1.3	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.65	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.97	0.09	1
Trichloroethene	ND		ug/kg	0.32	0.09	1
1,2-Dichlorobenzene	0.10	J	ug/kg	1.3	0.09	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-12
 Client ID: DOC5E-13-211007-1445
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	0.12	J	ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	0.14	J	ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	40		ug/kg	1.3	0.36	1
o-Xylene	19		ug/kg	0.65	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.65	0.11	1
Styrene	0.36	J	ug/kg	0.65	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.5	0.59	1
Acetone	ND		ug/kg	6.5	3.1	1
Carbon disulfide	ND		ug/kg	6.5	2.9	1
2-Butanone	ND		ug/kg	6.5	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.5	0.83	1
2-Hexanone	ND		ug/kg	6.5	0.76	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.65	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.64	1
Isopropylbenzene	2.2		ug/kg	0.65	0.07	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
Methyl Acetate	ND		ug/kg	2.6	0.61	1
Cyclohexane	ND		ug/kg	6.5	0.35	1
1,4-Dioxane	ND		ug/kg	52	23.	1
Freon-113	ND		ug/kg	2.6	0.45	1
Methyl cyclohexane	ND		ug/kg	2.6	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	93		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-13
 Client ID: DOC5E-10-211007-1500
 Sample Location: ROME, NY

Date Collected: 10/07/21 15:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 10:32
 Analyst: KJD
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.74	0.11	1
Chloroform	ND		ug/kg	1.1	0.10	1
Carbon tetrachloride	ND		ug/kg	0.74	0.17	1
1,2-Dichloropropane	ND		ug/kg	0.74	0.09	1
Dibromochloromethane	ND		ug/kg	0.74	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	0.20	1
Tetrachloroethene	ND		ug/kg	0.37	0.14	1
Chlorobenzene	ND		ug/kg	0.37	0.09	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.51	1
1,2-Dichloroethane	ND		ug/kg	0.74	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	0.12	1
Bromodichloromethane	ND		ug/kg	0.37	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	0.12	1
Bromoform	ND		ug/kg	3.0	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	0.12	1
Benzene	0.35	J	ug/kg	0.37	0.12	1
Toluene	ND		ug/kg	0.74	0.40	1
Ethylbenzene	0.20	J	ug/kg	0.74	0.10	1
Chloromethane	ND		ug/kg	3.0	0.69	1
Bromomethane	ND		ug/kg	1.5	0.43	1
Vinyl chloride	ND		ug/kg	0.74	0.25	1
Chloroethane	ND		ug/kg	1.5	0.33	1
1,1-Dichloroethene	ND		ug/kg	0.74	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.37	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-13

Date Collected: 10/07/21 15:00

Client ID: DOC5E-10-211007-1500

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	ND		ug/kg	1.5	0.41	1
o-Xylene	ND		ug/kg	0.74	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	0.13	1
Styrene	ND		ug/kg	0.74	0.14	1
Dichlorodifluoromethane	ND		ug/kg	7.4	0.68	1
Acetone	6.5	J	ug/kg	7.4	3.6	1
Carbon disulfide	ND		ug/kg	7.4	3.4	1
2-Butanone	ND		ug/kg	7.4	1.6	1
4-Methyl-2-pentanone	ND		ug/kg	7.4	0.95	1
2-Hexanone	ND		ug/kg	7.4	0.87	1
Bromochloromethane	ND		ug/kg	1.5	0.15	1
1,2-Dibromoethane	ND		ug/kg	0.74	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	0.74	1
Isopropylbenzene	ND		ug/kg	0.74	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.20	1
Methyl Acetate	ND		ug/kg	3.0	0.70	1
Cyclohexane	ND		ug/kg	7.4	0.40	1
1,4-Dioxane	ND		ug/kg	59	26.	1
Freon-113	ND		ug/kg	3.0	0.51	1
Methyl cyclohexane	ND		ug/kg	3.0	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-14
 Client ID: DOC5E-03-211007-1600
 Sample Location: ROME, NY

Date Collected: 10/07/21 16:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 12:56
 Analyst: KJD
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.0	1
Chloroform	ND		ug/kg	93	8.7	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.8	1
Dibromochloromethane	ND		ug/kg	62	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	62	17.	1
Tetrachloroethene	ND		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.9	1
Trichlorofluoromethane	ND		ug/kg	250	43.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.8	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.8	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	91		ug/kg	31	10.	1
Toluene	360		ug/kg	62	34.	1
Ethylbenzene	2500		ug/kg	62	8.8	1
Chloromethane	ND		ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	93	8.5	1
Trichloroethene	ND		ug/kg	31	8.5	1
1,2-Dichlorobenzene	15	J	ug/kg	120	9.0	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-14

Date Collected: 10/07/21 16:00

Client ID: DOC5E-03-211007-1600

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	120	9.2	1
1,4-Dichlorobenzene	ND		ug/kg	120	11.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	5600		ug/kg	120	35.	1
o-Xylene	3100		ug/kg	62	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	62	11.	1
Styrene	170		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	57.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	140	J	ug/kg	620	140	1
4-Methyl-2-pentanone	ND		ug/kg	620	80.	1
2-Hexanone	ND		ug/kg	620	73.	1
Bromochloromethane	ND		ug/kg	120	13.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	62.	1
Isopropylbenzene	1100		ug/kg	62	6.8	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
Methyl Acetate	260		ug/kg	250	59.	1
Cyclohexane	35	J	ug/kg	620	34.	1
1,4-Dioxane	ND		ug/kg	5000	2200	1
Freon-113	ND		ug/kg	250	43.	1
Methyl cyclohexane	110	J	ug/kg	250	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	137	Q	70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	133	Q	70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-14 R
 Client ID: DOC5E-03-211007-1600
 Sample Location: ROME, NY

Date Collected: 10/07/21 16:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 21:24
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.0	1
Chloroform	ND		ug/kg	93	8.7	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.8	1
Dibromochloromethane	ND		ug/kg	62	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	62	17.	1
Tetrachloroethene	ND		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.9	1
Trichlorofluoromethane	ND		ug/kg	250	43.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.8	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.8	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	97		ug/kg	31	10.	1
Toluene	370		ug/kg	62	34.	1
Ethylbenzene	2600		ug/kg	62	8.8	1
Chloromethane	120	J	ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	93	8.5	1
Trichloroethene	ND		ug/kg	31	8.5	1
1,2-Dichlorobenzene	12	J	ug/kg	120	9.0	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-14 R

Date Collected: 10/07/21 16:00

Client ID: DOC5E-03-211007-1600

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	10	J	ug/kg	120	9.2	1
1,4-Dichlorobenzene	12	J	ug/kg	120	11.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	5700		ug/kg	120	35.	1
o-Xylene	3100		ug/kg	62	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	62	11.	1
Styrene	160		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	57.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	150	J	ug/kg	620	140	1
4-Methyl-2-pentanone	ND		ug/kg	620	80.	1
2-Hexanone	ND		ug/kg	620	73.	1
Bromochloromethane	ND		ug/kg	120	13.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	62.	1
Isopropylbenzene	1000		ug/kg	62	6.8	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
Methyl Acetate	280		ug/kg	250	59.	1
Cyclohexane	ND		ug/kg	620	34.	1
1,4-Dioxane	ND		ug/kg	5000	2200	1
Freon-113	ND		ug/kg	250	43.	1
Methyl cyclohexane	120	J	ug/kg	250	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	139	Q	70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	139	Q	70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-15
 Client ID: 4125-211007-0001
 Sample Location: ROME, NY

Date Collected: 10/07/21 00:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 10:12
 Analyst: KJD
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.5	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.70	0.10	1
Chloroform	ND		ug/kg	1.0	0.10	1
Carbon tetrachloride	ND		ug/kg	0.70	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.70	0.09	1
Dibromochloromethane	ND		ug/kg	0.70	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.70	0.19	1
Tetrachloroethene	ND		ug/kg	0.35	0.14	1
Chlorobenzene	ND		ug/kg	0.35	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.8	0.48	1
1,2-Dichloroethane	ND		ug/kg	0.70	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.35	0.12	1
Bromodichloromethane	ND		ug/kg	0.35	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.70	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.35	0.11	1
Bromoform	ND		ug/kg	2.8	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.35	0.12	1
Benzene	74		ug/kg	0.35	0.12	1
Toluene	13		ug/kg	0.70	0.38	1
Ethylbenzene	45		ug/kg	0.70	0.10	1
Chloromethane	ND		ug/kg	2.8	0.65	1
Bromomethane	ND		ug/kg	1.4	0.41	1
Vinyl chloride	ND		ug/kg	0.70	0.23	1
Chloroethane	ND		ug/kg	1.4	0.32	1
1,1-Dichloroethene	ND		ug/kg	0.70	0.17	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.10	1
Trichloroethene	ND		ug/kg	0.35	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-15
 Client ID: 4125-211007-0001
 Sample Location: ROME, NY

Date Collected: 10/07/21 00:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	66		ug/kg	1.4	0.39	1
o-Xylene	28		ug/kg	0.70	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.70	0.12	1
Styrene	0.15	J	ug/kg	0.70	0.14	1
Dichlorodifluoromethane	ND		ug/kg	7.0	0.64	1
Acetone	ND		ug/kg	7.0	3.4	1
Carbon disulfide	ND		ug/kg	7.0	3.2	1
2-Butanone	ND		ug/kg	7.0	1.6	1
4-Methyl-2-pentanone	ND		ug/kg	7.0	0.89	1
2-Hexanone	ND		ug/kg	7.0	0.82	1
Bromochloromethane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.70	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.70	1
Isopropylbenzene	4.3		ug/kg	0.70	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
Methyl Acetate	ND		ug/kg	2.8	0.66	1
Cyclohexane	ND		ug/kg	7.0	0.38	1
1,4-Dioxane	ND		ug/kg	56	24.	1
Freon-113	ND		ug/kg	2.8	0.48	1
Methyl cyclohexane	ND		ug/kg	2.8	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-16
 Client ID: 4125-211007-0002
 Sample Location: ROME, NY

Date Collected: 10/07/21 00:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/21 12:35
 Analyst: KJD
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	250	120	1
1,1-Dichloroethane	ND		ug/kg	50	7.3	1
Chloroform	ND		ug/kg	76	7.1	1
Carbon tetrachloride	ND		ug/kg	50	12.	1
1,2-Dichloropropane	ND		ug/kg	50	6.3	1
Dibromochloromethane	ND		ug/kg	50	7.1	1
1,1,2-Trichloroethane	ND		ug/kg	50	14.	1
Tetrachloroethene	ND		ug/kg	25	9.9	1
Chlorobenzene	ND		ug/kg	25	6.4	1
Trichlorofluoromethane	ND		ug/kg	200	35.	1
1,2-Dichloroethane	ND		ug/kg	50	13.	1
1,1,1-Trichloroethane	ND		ug/kg	25	8.4	1
Bromodichloromethane	ND		ug/kg	25	5.5	1
trans-1,3-Dichloropropene	ND		ug/kg	50	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	25	8.0	1
Bromoform	ND		ug/kg	200	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.4	1
Benzene	38		ug/kg	25	8.4	1
Toluene	130		ug/kg	50	27.	1
Ethylbenzene	540		ug/kg	50	7.1	1
Chloromethane	87	J	ug/kg	200	47.	1
Bromomethane	ND		ug/kg	100	29.	1
Vinyl chloride	ND		ug/kg	50	17.	1
Chloroethane	ND		ug/kg	100	23.	1
1,1-Dichloroethene	ND		ug/kg	50	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	76	6.9	1
Trichloroethene	ND		ug/kg	25	6.9	1
1,2-Dichlorobenzene	13	J	ug/kg	100	7.3	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-16
 Client ID: 4125-211007-0002
 Sample Location: ROME, NY

Date Collected: 10/07/21 00:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	12	J	ug/kg	100	7.5	1
1,4-Dichlorobenzene	13	J	ug/kg	100	8.6	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	1200		ug/kg	100	28.	1
o-Xylene	620		ug/kg	50	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8	1
Styrene	30	J	ug/kg	50	9.9	1
Dichlorodifluoromethane	ND		ug/kg	500	46.	1
Acetone	ND		ug/kg	500	240	1
Carbon disulfide	ND		ug/kg	500	230	1
2-Butanone	ND		ug/kg	500	110	1
4-Methyl-2-pentanone	ND		ug/kg	500	65.	1
2-Hexanone	ND		ug/kg	500	60.	1
Bromochloromethane	ND		ug/kg	100	10.	1
1,2-Dibromoethane	ND		ug/kg	50	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.	1
Isopropylbenzene	180		ug/kg	50	5.5	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
Methyl Acetate	130	J	ug/kg	200	48.	1
Cyclohexane	ND		ug/kg	500	28.	1
1,4-Dioxane	ND		ug/kg	4000	1800	1
Freon-113	ND		ug/kg	200	35.	1
Methyl cyclohexane	54	J	ug/kg	200	30.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	124		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/21 20:35
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04 Batch: WG1557402-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	1.7	J	ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/21 20:35
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04 Batch: WG1557402-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	0.28	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/21 20:35
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04 Batch: WG1557402-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/21 20:35
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,07 Batch: WG1557542-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	86	J	ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/21 20:35
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,07 Batch: WG1557542-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	14	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/21 20:35
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,07 Batch: WG1557542-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/12/21 21:03
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1557727-10					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	86	J	ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	7.5	J	ug/kg	100	7.2
1,3-Dichlorobenzene	8.8	J	ug/kg	100	7.4

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 21:03
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1557727-10					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	9.8	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/12/21 21:03
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1557727-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/12/21 09:11
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,14,16 Batch: WG1557727-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	7.3	J	ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	48	J	ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	7.4	J	ug/kg	100	7.2
1,3-Dichlorobenzene	7.6	J	ug/kg	100	7.4

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 09:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,14,16 Batch: WG1557727-5					
1,4-Dichlorobenzene	8.9	J	ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	20	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 09:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,14,16 Batch: WG1557727-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 09:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,08,11-13,15 Batch: WG1557735-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	0.15	J	ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	0.95	J	ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	0.15	J	ug/kg	2.0	0.14
1,3-Dichlorobenzene	0.15	J	ug/kg	2.0	0.15

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 09:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,08,11-13,15 Batch: WG1557735-5					
1,4-Dichlorobenzene	0.18	J	ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	0.41	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 09:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,08,11-13,15 Batch: WG1557735-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/12/21 20:49
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 10 Batch: WG1558023-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/12/21 20:49
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 10 Batch: WG1558023-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/12/21 20:49
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 10 Batch: WG1558023-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/13/21 10:29
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1558086-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/21 10:29
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1558086-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/13/21 10:29
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1558086-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04 Batch: WG1557402-3 WG1557402-4								
Methylene chloride	98		96		70-130	2		30
1,1-Dichloroethane	94		87		70-130	8		30
Chloroform	91		87		70-130	4		30
Carbon tetrachloride	110		102		70-130	8		30
1,2-Dichloropropane	103		102		70-130	1		30
Dibromochloromethane	97		98		70-130	1		30
1,1,2-Trichloroethane	93		95		70-130	2		30
Tetrachloroethene	112		107		70-130	5		30
Chlorobenzene	101		98		70-130	3		30
Trichlorofluoromethane	108		102		70-139	6		30
1,2-Dichloroethane	93		91		70-130	2		30
1,1,1-Trichloroethane	102		97		70-130	5		30
Bromodichloromethane	90		87		70-130	3		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	105		104		70-130	1		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	85		94		70-130	10		30
Benzene	100		98		70-130	2		30
Toluene	100		96		70-130	4		30
Ethylbenzene	102		98		70-130	4		30
Chloromethane	94		88		52-130	7		30
Bromomethane	105		99		57-147	6		30
Vinyl chloride	103		96		67-130	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04 Batch: WG1557402-3 WG1557402-4								
Chloroethane	81		78		50-151	4		30
1,1-Dichloroethene	94		90		65-135	4		30
trans-1,2-Dichloroethene	90		87		70-130	3		30
Trichloroethene	104		102		70-130	2		30
1,2-Dichlorobenzene	98		97		70-130	1		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	102		100		70-130	2		30
Methyl tert butyl ether	93		98		66-130	5		30
p/m-Xylene	98		94		70-130	4		30
o-Xylene	96		92		70-130	4		30
cis-1,2-Dichloroethene	92		88		70-130	4		30
Styrene	94		91		70-130	3		30
Dichlorodifluoromethane	96		90		30-146	6		30
Acetone	90		97		54-140	7		30
Carbon disulfide	95		90		59-130	5		30
2-Butanone	84		88		70-130	5		30
4-Methyl-2-pentanone	84		93		70-130	10		30
2-Hexanone	80		89		70-130	11		30
Bromochloromethane	85		86		70-130	1		30
1,2-Dibromoethane	99		104		70-130	5		30
1,2-Dibromo-3-chloropropane	87		93		68-130	7		30
Isopropylbenzene	106		103		70-130	3		30
1,2,3-Trichlorobenzene	98		100		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04 Batch: WG1557402-3 WG1557402-4								
1,2,4-Trichlorobenzene	103		103		70-130	0		30
Methyl Acetate	77		85		51-146	10		30
Cyclohexane	114		110		59-142	4		30
1,4-Dioxane	84		93		65-136	10		30
Freon-113	106		101		50-139	5		30
Methyl cyclohexane	106		101		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		94		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	91		91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,07 Batch: WG1557542-3 WG1557542-4								
Methylene chloride	98		96		70-130	2		30
1,1-Dichloroethane	94		87		70-130	8		30
Chloroform	91		87		70-130	4		30
Carbon tetrachloride	110		102		70-130	8		30
1,2-Dichloropropane	103		102		70-130	1		30
Dibromochloromethane	97		98		70-130	1		30
1,1,2-Trichloroethane	93		95		70-130	2		30
Tetrachloroethene	112		107		70-130	5		30
Chlorobenzene	101		98		70-130	3		30
Trichlorofluoromethane	108		102		70-139	6		30
1,2-Dichloroethane	93		91		70-130	2		30
1,1,1-Trichloroethane	102		97		70-130	5		30
Bromodichloromethane	90		87		70-130	3		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	105		104		70-130	1		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	85		94		70-130	10		30
Benzene	100		98		70-130	2		30
Toluene	100		96		70-130	4		30
Ethylbenzene	102		98		70-130	4		30
Chloromethane	94		88		52-130	7		30
Bromomethane	105		99		57-147	6		30
Vinyl chloride	103		96		67-130	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,07 Batch: WG1557542-3 WG1557542-4								
Chloroethane	81		78		50-151	4		30
1,1-Dichloroethene	94		90		65-135	4		30
trans-1,2-Dichloroethene	90		87		70-130	3		30
Trichloroethene	104		102		70-130	2		30
1,2-Dichlorobenzene	98		97		70-130	1		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	102		100		70-130	2		30
Methyl tert butyl ether	93		98		66-130	5		30
p/m-Xylene	98		94		70-130	4		30
o-Xylene	96		92		70-130	4		30
cis-1,2-Dichloroethene	92		88		70-130	4		30
Styrene	94		91		70-130	3		30
Dichlorodifluoromethane	96		90		30-146	6		30
Acetone	90		97		54-140	7		30
Carbon disulfide	95		90		59-130	5		30
2-Butanone	84		88		70-130	5		30
4-Methyl-2-pentanone	84		93		70-130	10		30
2-Hexanone	80		89		70-130	11		30
Bromochloromethane	85		86		70-130	1		30
1,2-Dibromoethane	99		104		70-130	5		30
1,2-Dibromo-3-chloropropane	87		93		68-130	7		30
Isopropylbenzene	106		103		70-130	3		30
1,2,3-Trichlorobenzene	98		100		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,07 Batch: WG1557542-3 WG1557542-4								
1,2,4-Trichlorobenzene	103		103		70-130	0		30
Methyl Acetate	77		85		51-146	10		30
Cyclohexane	114		110		59-142	4		30
1,4-Dioxane	84		93		65-136	10		30
Freon-113	106		101		50-139	5		30
Methyl cyclohexane	106		101		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		94		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	91		91		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,14,16 Batch: WG1557727-3 WG1557727-4								
Methylene chloride	98		97		70-130	1		30
1,1-Dichloroethane	87		85		70-130	2		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	96		93		70-130	3		30
1,2-Dichloropropane	99		97		70-130	2		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	94		95		70-130	1		30
Tetrachloroethene	101		100		70-130	1		30
Chlorobenzene	99		97		70-130	2		30
Trichlorofluoromethane	92		88		70-139	4		30
1,2-Dichloroethane	91		92		70-130	1		30
1,1,1-Trichloroethane	93		91		70-130	2		30
Bromodichloromethane	85		84		70-130	1		30
trans-1,3-Dichloropropene	96		97		70-130	1		30
cis-1,3-Dichloropropene	100		99		70-130	1		30
Bromoform	94		93		70-130	1		30
1,1,2,2-Tetrachloroethane	90		90		70-130	0		30
Benzene	96		95		70-130	1		30
Toluene	97		95		70-130	2		30
Ethylbenzene	98		95		70-130	3		30
Chloromethane	85		83		52-130	2		30
Bromomethane	103		102		57-147	1		30
Vinyl chloride	91		88		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,14,16 Batch: WG1557727-3 WG1557727-4								
Chloroethane	77		73		50-151	5		30
1,1-Dichloroethene	87		84		65-135	4		30
trans-1,2-Dichloroethene	86		83		70-130	4		30
Trichloroethene	96		93		70-130	3		30
1,2-Dichlorobenzene	99		96		70-130	3		30
1,3-Dichlorobenzene	102		95		70-130	7		30
1,4-Dichlorobenzene	100		95		70-130	5		30
Methyl tert butyl ether	93		95		66-130	2		30
p/m-Xylene	95		93		70-130	2		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	89		87		70-130	2		30
Styrene	94		93		70-130	1		30
Dichlorodifluoromethane	82		81		30-146	1		30
Acetone	88		85		54-140	3		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	81		77		70-130	5		30
4-Methyl-2-pentanone	88		95		70-130	8		30
2-Hexanone	79		80		70-130	1		30
Bromochloromethane	89		91		70-130	2		30
1,2-Dibromoethane	100		103		70-130	3		30
1,2-Dibromo-3-chloropropane	90		90		68-130	0		30
Isopropylbenzene	103		97		70-130	6		30
1,2,3-Trichlorobenzene	96		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,14,16 Batch: WG1557727-3 WG1557727-4								
1,2,4-Trichlorobenzene	98		94		70-130	4		30
Methyl Acetate	80		85		51-146	6		30
Cyclohexane	95		92		59-142	3		30
1,4-Dioxane	89		97		65-136	9		30
Freon-113	92		89		50-139	3		30
Methyl cyclohexane	89		86		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1557727-8 WG1557727-9								
Methylene chloride	98		95		70-130	3		30
1,1-Dichloroethane	91		86		70-130	6		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	101		98		70-130	3		30
1,2-Dichloropropane	103		103		70-130	0		30
Dibromochloromethane	101		102		70-130	1		30
1,1,2-Trichloroethane	102		103		70-130	1		30
Tetrachloroethene	112		111		70-130	1		30
Chlorobenzene	102		102		70-130	0		30
Trichlorofluoromethane	98		98		70-139	0		30
1,2-Dichloroethane	94		94		70-130	0		30
1,1,1-Trichloroethane	97		95		70-130	2		30
Bromodichloromethane	87		87		70-130	0		30
trans-1,3-Dichloropropene	104		104		70-130	0		30
cis-1,3-Dichloropropene	107		107		70-130	0		30
Bromoform	98		97		70-130	1		30
1,1,2,2-Tetrachloroethane	96		96		70-130	0		30
Benzene	100		100		70-130	0		30
Toluene	101		100		70-130	1		30
Ethylbenzene	102		100		70-130	2		30
Chloromethane	84		83		52-130	1		30
Bromomethane	98		99		57-147	1		30
Vinyl chloride	92		91		67-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1557727-8 WG1557727-9								
Chloroethane	74		74		50-151	0		30
1,1-Dichloroethene	88		87		65-135	1		30
trans-1,2-Dichloroethene	88		87		70-130	1		30
Trichloroethene	103		104		70-130	1		30
1,2-Dichlorobenzene	103		101		70-130	2		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	105		104		70-130	1		30
Methyl tert butyl ether	102		102		66-130	0		30
p/m-Xylene	99		97		70-130	2		30
o-Xylene	98		97		70-130	1		30
cis-1,2-Dichloroethene	88		89		70-130	1		30
Styrene	97		96		70-130	1		30
Dichlorodifluoromethane	91		88		30-146	3		30
Acetone	104		108		54-140	4		30
Carbon disulfide	86		85		59-130	1		30
2-Butanone	93		93		70-130	0		30
4-Methyl-2-pentanone	100		97		70-130	3		30
2-Hexanone	91		88		70-130	3		30
Bromochloromethane	86		86		70-130	0		30
1,2-Dibromoethane	110		112		70-130	2		30
1,2-Dibromo-3-chloropropane	97		96		68-130	1		30
Isopropylbenzene	107		104		70-130	3		30
1,2,3-Trichlorobenzene	104		106		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1557727-8 WG1557727-9								
1,2,4-Trichlorobenzene	108		108		70-130	0		30
Methyl Acetate	85		85		51-146	0		30
Cyclohexane	105		104		59-142	1		30
1,4-Dioxane	91		92		65-136	1		30
Freon-113	100		98		50-139	2		30
Methyl cyclohexane	101		100		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		92		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	89		90		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 Batch: WG1557735-3 WG1557735-4								
Methylene chloride	98		97		70-130	1		30
1,1-Dichloroethane	87		85		70-130	2		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	96		93		70-130	3		30
1,2-Dichloropropane	99		97		70-130	2		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	94		95		70-130	1		30
Tetrachloroethene	101		100		70-130	1		30
Chlorobenzene	99		97		70-130	2		30
Trichlorofluoromethane	92		88		70-139	4		30
1,2-Dichloroethane	91		92		70-130	1		30
1,1,1-Trichloroethane	93		91		70-130	2		30
Bromodichloromethane	85		84		70-130	1		30
trans-1,3-Dichloropropene	96		97		70-130	1		30
cis-1,3-Dichloropropene	100		99		70-130	1		30
Bromoform	94		93		70-130	1		30
1,1,2,2-Tetrachloroethane	90		90		70-130	0		30
Benzene	96		95		70-130	1		30
Toluene	97		95		70-130	2		30
Ethylbenzene	98		95		70-130	3		30
Chloromethane	85		83		52-130	2		30
Bromomethane	103		102		57-147	1		30
Vinyl chloride	91		88		67-130	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 Batch: WG1557735-3 WG1557735-4								
Chloroethane	77		73		50-151	5		30
1,1-Dichloroethene	87		84		65-135	4		30
trans-1,2-Dichloroethene	86		83		70-130	4		30
Trichloroethene	96		93		70-130	3		30
1,2-Dichlorobenzene	99		96		70-130	3		30
1,3-Dichlorobenzene	102		95		70-130	7		30
1,4-Dichlorobenzene	100		95		70-130	5		30
Methyl tert butyl ether	93		95		66-130	2		30
p/m-Xylene	95		93		70-130	2		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	89		87		70-130	2		30
Styrene	94		93		70-130	1		30
Dichlorodifluoromethane	82		81		30-146	1		30
Acetone	88		85		54-140	3		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	81		77		70-130	5		30
4-Methyl-2-pentanone	88		95		70-130	8		30
2-Hexanone	79		80		70-130	1		30
Bromochloromethane	89		91		70-130	2		30
1,2-Dibromoethane	100		103		70-130	3		30
1,2-Dibromo-3-chloropropane	90		90		68-130	0		30
Isopropylbenzene	103		97		70-130	6		30
1,2,3-Trichlorobenzene	96		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 Batch: WG1557735-3 WG1557735-4								
1,2,4-Trichlorobenzene	98		94		70-130	4		30
Methyl Acetate	80		85		51-146	6		30
Cyclohexane	95		92		59-142	3		30
1,4-Dioxane	89		97		65-136	9		30
Freon-113	92		89		50-139	3		30
Methyl cyclohexane	89		86		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		92		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 10 Batch: WG1558023-3 WG1558023-4								
Methylene chloride	105		104		70-130	1		30
1,1-Dichloroethane	120		116		70-130	3		30
Chloroform	111		109		70-130	2		30
Carbon tetrachloride	111		102		70-130	8		30
1,2-Dichloropropane	119		116		70-130	3		30
Dibromochloromethane	99		96		70-130	3		30
1,1,2-Trichloroethane	117		115		70-130	2		30
Tetrachloroethene	108		98		70-130	10		30
Chlorobenzene	109		104		70-130	5		30
Trichlorofluoromethane	115		104		70-139	10		30
1,2-Dichloroethane	114		114		70-130	0		30
1,1,1-Trichloroethane	119		110		70-130	8		30
Bromodichloromethane	116		115		70-130	1		30
trans-1,3-Dichloropropene	119		117		70-130	2		30
cis-1,3-Dichloropropene	116		116		70-130	0		30
Bromoform	103		103		70-130	0		30
1,1,2,2-Tetrachloroethane	117		118		70-130	1		30
Benzene	116		112		70-130	4		30
Toluene	111		104		70-130	7		30
Ethylbenzene	111		104		70-130	7		30
Chloromethane	134	Q	124		52-130	8		30
Bromomethane	116		110		57-147	5		30
Vinyl chloride	136	Q	124		67-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 10 Batch: WG1558023-3 WG1558023-4								
Chloroethane	150		141		50-151	6		30
1,1-Dichloroethene	112		103		65-135	8		30
trans-1,2-Dichloroethene	108		102		70-130	6		30
Trichloroethene	115		109		70-130	5		30
1,2-Dichlorobenzene	106		101		70-130	5		30
1,3-Dichlorobenzene	108		101		70-130	7		30
1,4-Dichlorobenzene	105		100		70-130	5		30
Methyl tert butyl ether	109		110		66-130	1		30
p/m-Xylene	115		107		70-130	7		30
o-Xylene	114		108		70-130	5		30
cis-1,2-Dichloroethene	108		106		70-130	2		30
Styrene	113		109		70-130	4		30
Dichlorodifluoromethane	120		105		30-146	13		30
Acetone	124		128		54-140	3		30
Carbon disulfide	112		104		59-130	7		30
2-Butanone	137	Q	136	Q	70-130	1		30
4-Methyl-2-pentanone	113		118		70-130	4		30
2-Hexanone	118		114		70-130	3		30
Bromochloromethane	106		104		70-130	2		30
1,2-Dibromoethane	118		117		70-130	1		30
1,2-Dibromo-3-chloropropane	111		112		68-130	1		30
Isopropylbenzene	111		102		70-130	8		30
1,2,3-Trichlorobenzene	103		99		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 10 Batch: WG1558023-3 WG1558023-4								
1,2,4-Trichlorobenzene	103		97		70-130	6		30
Methyl Acetate	126		136		51-146	8		30
Cyclohexane	125		113		59-142	10		30
1,4-Dioxane	110		120		65-136	9		30
Freon-113	116		105		50-139	10		30
Methyl cyclohexane	111		100		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		111		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	100		102		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1558086-3 WG1558086-4								
Methylene chloride	100		99		70-130	1		30
1,1-Dichloroethane	108		106		70-130	2		30
Chloroform	106		108		70-130	2		30
Carbon tetrachloride	117		112		70-130	4		30
1,2-Dichloropropane	105		105		70-130	0		30
Dibromochloromethane	98		99		70-130	1		30
1,1,2-Trichloroethane	104		105		70-130	1		30
Tetrachloroethene	116		114		70-130	2		30
Chlorobenzene	108		106		70-130	2		30
Trichlorofluoromethane	118		111		70-139	6		30
1,2-Dichloroethane	101		104		70-130	3		30
1,1,1-Trichloroethane	116		112		70-130	4		30
Bromodichloromethane	108		109		70-130	1		30
trans-1,3-Dichloropropene	97		99		70-130	2		30
cis-1,3-Dichloropropene	99		100		70-130	1		30
Bromoform	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	98		102		70-130	4		30
Benzene	108		106		70-130	2		30
Toluene	109		105		70-130	4		30
Ethylbenzene	112		109		70-130	3		30
Chloromethane	104		99		52-130	5		30
Bromomethane	101		94		57-147	7		30
Vinyl chloride	109		102		67-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1558086-3 WG1558086-4								
Chloroethane	111		103		50-151	7		30
1,1-Dichloroethene	111		107		65-135	4		30
trans-1,2-Dichloroethene	110		106		70-130	4		30
Trichloroethene	113		110		70-130	3		30
1,2-Dichlorobenzene	106		105		70-130	1		30
1,3-Dichlorobenzene	109		106		70-130	3		30
1,4-Dichlorobenzene	106		104		70-130	2		30
Methyl tert butyl ether	102		106		66-130	4		30
p/m-Xylene	115		113		70-130	2		30
o-Xylene	114		112		70-130	2		30
cis-1,2-Dichloroethene	108		106		70-130	2		30
Styrene	116		115		70-130	1		30
Dichlorodifluoromethane	112		105		30-146	6		30
Acetone	105		114		54-140	8		30
Carbon disulfide	104		100		59-130	4		30
2-Butanone	94		102		70-130	8		30
4-Methyl-2-pentanone	80		89		70-130	11		30
2-Hexanone	82		90		70-130	9		30
Bromochloromethane	106		105		70-130	1		30
1,2-Dibromoethane	96		99		70-130	3		30
1,2-Dibromo-3-chloropropane	84		89		68-130	6		30
Isopropylbenzene	117		112		70-130	4		30
1,2,3-Trichlorobenzene	108		109		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1558086-3 WG1558086-4								
1,2,4-Trichlorobenzene	114		112		70-130	2		30
Methyl Acetate	87		94		51-146	8		30
Cyclohexane	114		111		59-142	3		30
1,4-Dioxane	81		89		65-136	9		30
Freon-113	114		110		50-139	4		30
Methyl cyclohexane	115		112		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		100		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	100		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 QC Batch ID: WG1557735-6 WG1557735-7 QC Sample: L2154924-13 Client ID: DOC5E-10-211007-1500												
Methylene chloride	ND	74.8	69	92		73	99		70-130	5		30
1,1-Dichloroethane	ND	74.8	63	84		66	90		70-130	5		30
Chloroform	ND	74.8	63	85		67	92		70-130	6		30
Carbon tetrachloride	ND	74.8	78	104		83	112		70-130	6		30
1,2-Dichloropropane	ND	74.8	75	100		79	108		70-130	6		30
Dibromochloromethane	ND	74.8	73	98		81	111		70-130	10		30
1,1,2-Trichloroethane	ND	74.8	72	96		76	104		70-130	6		30
Tetrachloroethene	ND	74.8	84	112		90	123		70-130	7		30
Chlorobenzene	ND	74.8	73	98		78	106		70-130	6		30
Trichlorofluoromethane	ND	74.8	74	99		77	105		70-139	4		30
1,2-Dichloroethane	ND	74.8	64	86		68	92		70-130	6		30
1,1,1-Trichloroethane	ND	74.8	72	96		77	105		70-130	7		30
Bromodichloromethane	ND	74.8	62	83		67	92		70-130	8		30
trans-1,3-Dichloropropene	ND	74.8	77	102		83	113		70-130	8		30
cis-1,3-Dichloropropene	ND	74.8	78	104		83	113		70-130	7		30
Bromoform	ND	74.8	70	93		76	103		70-130	9		30
1,1,2,2-Tetrachloroethane	ND	74.8	64	85		72	97		70-130	11		30
Benzene	0.35J	74.8	74	99		79	107		70-130	6		30
Toluene	ND	74.8	74	98		79	108		70-130	7		30
Ethylbenzene	0.20J	74.8	74	98		79	108		70-130	7		30
Chloromethane	ND	74.8	63	84		63	86		52-130	1		30
Bromomethane	ND	74.8	76	101		80	109		57-147	6		30
Vinyl chloride	ND	74.8	72	97		75	102		67-130	4		30

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 QC Batch ID: WG1557735-6 WG1557735-7 QC Sample: L2154924-13 Client ID: DOC5E-10-211007-1500												
Chloroethane	ND	74.8	54	72		55	75		50-151	2		30
1,1-Dichloroethene	ND	74.8	67	90		70	95		65-135	4		30
trans-1,2-Dichloroethene	ND	74.8	65	87		69	93		70-130	5		30
Trichloroethene	ND	74.8	77	103		81	111		70-130	6		30
1,2-Dichlorobenzene	ND	74.8	68	91		76	104		70-130	11		30
1,3-Dichlorobenzene	ND	74.8	72	96		79	108		70-130	10		30
1,4-Dichlorobenzene	ND	74.8	72	96		78	106		70-130	9		30
Methyl tert butyl ether	ND	74.8	69	92		73	100		66-130	7		30
p/m-Xylene	ND	150	140	93		150	102		70-130	7		30
o-Xylene	ND	150	140	91		150	100		70-130	8		30
cis-1,2-Dichloroethene	ND	74.8	64	86		68	93		70-130	7		30
Styrene	ND	150	130	90		150	99		70-130	8		30
Dichlorodifluoromethane	ND	74.8	69	92		71	97		30-146	3		30
Acetone	6.5J	74.8	65	87		72	98		54-140	10		30
Carbon disulfide	ND	74.8	67	89		70	95		59-130	5		30
2-Butanone	ND	74.8	55	73		59	80		70-130	7		30
4-Methyl-2-pentanone	ND	74.8	61	82		65	89		70-130	6		30
2-Hexanone	ND	74.8	56	75		59	81		70-130	5		30
Bromochloromethane	ND	74.8	58	78		61	82		70-130	4		30
1,2-Dibromoethane	ND	74.8	76	102		82	111		70-130	7		30
1,2-Dibromo-3-chloropropane	ND	74.8	58	78		64	88		68-130	10		30
Isopropylbenzene	ND	74.8	76	101		84	114		70-130	10		30
1,2,3-Trichlorobenzene	ND	74.8	67	89		72	98		70-130	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 QC Batch ID: WG1557735-6 WG1557735-7 QC Sample: L2154924-13 Client ID: DOC5E-10-211007-1500												
1,2,4-Trichlorobenzene	ND	74.8	70	93		76	103		70-130	8		30
Methyl Acetate	ND	74.8	50	67		53	73		51-146	6		30
Cyclohexane	ND	74.8	81	108		85	116		59-142	5		30
1,4-Dioxane	ND	3740	2900	78		3200	87		65-136	8		30
Freon-113	ND	74.8	77	103		81	110		50-139	5		30
Methyl cyclohexane	ND	74.8	78	104		82	112		70-130	6		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		90		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	88		89		70-130
Toluene-d8	101		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 QC Batch ID: WG1557735-8 WG1557735-9 QC Sample: L2154924-11 Client ID: DOC5E-32-211007-1420												
Methylene chloride	ND	58.4	58	100		48	80		70-130	19		30
1,1-Dichloroethane	ND	58.4	52	90		43	72		70-130	19		30
Chloroform	ND	58.4	53	91		44	73		70-130	19		30
Carbon tetrachloride	ND	58.4	65	111		51	85		70-130	24		30
1,2-Dichloropropane	ND	58.4	63	108		52	87		70-130	19		30
Dibromochloromethane	ND	58.4	62	107		50	83		70-130	22		30
1,1,2-Trichloroethane	ND	58.4	62	105		51	84		70-130	19		30
Tetrachloroethene	ND	58.4	70	120		58	96		70-130	20		30
Chlorobenzene	ND	58.4	60	103		50	83		70-130	19		30
Trichlorofluoromethane	ND	58.4	61	104		52	86		70-139	16		30
1,2-Dichloroethane	ND	58.4	54	92		44	74		70-130	20		30
1,1,1-Trichloroethane	ND	58.4	61	105		50	84		70-130	20		30
Bromodichloromethane	ND	58.4	53	90		43	71		70-130	21		30
trans-1,3-Dichloropropene	ND	58.4	63	108		51	86		70-130	21		30
cis-1,3-Dichloropropene	ND	58.4	65	110		52	86		70-130	22		30
Bromoform	ND	58.4	62	105		48	80		70-130	25		30
1,1,2,2-Tetrachloroethane	ND	58.4	59	100		48	80		70-130	20		30
Benzene	ND	58.4	63	108		52	86		70-130	20		30
Toluene	ND	58.4	62	105		51	85		70-130	19		30
Ethylbenzene	ND	58.4	60	103		50	83		70-130	19		30
Chloromethane	ND	58.4	52	89		43	72		52-130	19		30
Bromomethane	ND	58.4	60	103		50	84		57-147	18		30
Vinyl chloride	ND	58.4	59	101		50	83		67-130	17		30

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 QC Batch ID: WG1557735-8 WG1557735-9 QC Sample: L2154924-11 Client ID: DOC5E-32-211007-1420												
Chloroethane	ND	58.4	43	74		36	60		50-151	17		30
1,1-Dichloroethene	ND	58.4	55	95		46	77		65-135	19		30
trans-1,2-Dichloroethene	ND	58.4	54	92		45	74		70-130	19		30
Trichloroethene	ND	58.4	65	111		53	88		70-130	21		30
1,2-Dichlorobenzene	ND	58.4	58	100		46	77		70-130	23		30
1,3-Dichlorobenzene	ND	58.4	59	101		48	79		70-130	22		30
1,4-Dichlorobenzene	ND	58.4	59	100		47	78		70-130	22		30
Methyl tert butyl ether	ND	58.4	60	102		49	81		66-130	20		30
p/m-Xylene	ND	117	110	98		93	78		70-130	20		30
o-Xylene	ND	117	110	96		92	77		70-130	19		30
cis-1,2-Dichloroethene	ND	58.4	54	92		44	74		70-130	19		30
Styrene	ND	117	110	92		88	73		70-130	20		30
Dichlorodifluoromethane	ND	58.4	57	98		48	80		30-146	18		30
Acetone	11	58.4	42	53	Q	41	50	Q	54-140	2		30
Carbon disulfide	ND	58.4	55	94		47	77		59-130	16		30
2-Butanone	ND	58.4	41	70		32	52	Q	70-130	25		30
4-Methyl-2-pentanone	ND	58.4	54	93		44	74		70-130	20		30
2-Hexanone	ND	58.4	42	71		33	55	Q	70-130	23		30
Bromochloromethane	ND	58.4	48	83		40	67	Q	70-130	19		30
1,2-Dibromoethane	ND	58.4	64	110		53	89		70-130	19		30
1,2-Dibromo-3-chloropropane	ND	58.4	52	89		41	69		68-130	22		30
Isopropylbenzene	ND	58.4	66	113		52	87		70-130	23		30
1,2,3-Trichlorobenzene	ND	58.4	52	88		43	71		70-130	19		30

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,08,11-13,15 QC Batch ID: WG1557735-8 WG1557735-9 QC Sample: L2154924-11 Client ID: DOC5E-32-211007-1420												
1,2,4-Trichlorobenzene	ND	58.4	54	92		45	74		70-130	19		30
Methyl Acetate	ND	58.4	45	77		49	81		51-146	8		30
Cyclohexane	ND	58.4	68	116		56	93		59-142	19		30
1,4-Dioxane	ND	2920	2600	90		2400	81		65-136	8		30
Freon-113	ND	58.4	65	112		55	91		50-139	17		30
Methyl cyclohexane	ND	58.4	65	112		54	90		70-130	18		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	88		88		70-130
Toluene-d8	99		100		70-130

SEMIVOLATILES

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-01 D
 Client ID: DOC5E-16-211007-0740
 Sample Location: ROME, NY

Date Collected: 10/07/21 07:40
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/13/21 09:00
 Analyst: JG
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2500		ug/kg	1800	240	10
Hexachlorobenzene	ND		ug/kg	1400	260	10
Bis(2-chloroethyl)ether	ND		ug/kg	2000	310	10
2-Chloronaphthalene	ND		ug/kg	2300	230	10
3,3'-Dichlorobenzidine	ND		ug/kg	2300	610	10
2,4-Dinitrotoluene	ND		ug/kg	2300	460	10
2,6-Dinitrotoluene	ND		ug/kg	2300	390	10
Fluoranthene	84000		ug/kg	1400	260	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2300	240	10
4-Bromophenyl phenyl ether	ND		ug/kg	2300	350	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2700	390	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2500	230	10
Hexachlorobutadiene	ND		ug/kg	2300	330	10
Hexachlorocyclopentadiene	ND		ug/kg	6500	2100	10
Hexachloroethane	ND		ug/kg	1800	370	10
Isophorone	ND		ug/kg	2000	300	10
Naphthalene	56000		ug/kg	2300	280	10
Nitrobenzene	ND		ug/kg	2000	340	10
NDPA/DPA	ND		ug/kg	1800	260	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2300	350	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2300	790	10
Butyl benzyl phthalate	ND		ug/kg	2300	580	10
Di-n-butylphthalate	ND		ug/kg	2300	430	10
Di-n-octylphthalate	ND		ug/kg	2300	780	10
Diethyl phthalate	ND		ug/kg	2300	210	10
Dimethyl phthalate	ND		ug/kg	2300	480	10
Benzo(a)anthracene	35000		ug/kg	1400	260	10
Benzo(a)pyrene	19000		ug/kg	1800	560	10

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-01 D

Date Collected: 10/07/21 07:40

Client ID: DOC5E-16-211007-0740

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	36000		ug/kg	1400	380	10
Benzo(k)fluoranthene	12000		ug/kg	1400	360	10
Chrysene	39000		ug/kg	1400	240	10
Acenaphthylene	3900		ug/kg	1800	350	10
Anthracene	8200		ug/kg	1400	440	10
Benzo(ghi)perylene	8400		ug/kg	1800	270	10
Fluorene	3800		ug/kg	2300	220	10
Phenanthrene	32000		ug/kg	1400	280	10
Dibenzo(a,h)anthracene	2900		ug/kg	1400	260	10
Indeno(1,2,3-cd)pyrene	12000		ug/kg	1800	320	10
Pyrene	68000		ug/kg	1400	230	10
Biphenyl	ND		ug/kg	5200	530	10
4-Chloroaniline	ND		ug/kg	2300	420	10
2-Nitroaniline	ND		ug/kg	2300	440	10
3-Nitroaniline	ND		ug/kg	2300	430	10
4-Nitroaniline	ND		ug/kg	2300	950	10
Dibenzofuran	2800		ug/kg	2300	220	10
2-Methylnaphthalene	3600		ug/kg	2700	280	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2300	240	10
Acetophenone	ND		ug/kg	2300	280	10
2,4,6-Trichlorophenol	ND		ug/kg	1400	430	10
p-Chloro-m-cresol	ND		ug/kg	2300	340	10
2-Chlorophenol	ND		ug/kg	2300	270	10
2,4-Dichlorophenol	ND		ug/kg	2000	370	10
2,4-Dimethylphenol	ND		ug/kg	2300	750	10
2-Nitrophenol	ND		ug/kg	4900	860	10
4-Nitrophenol	ND		ug/kg	3200	930	10
2,4-Dinitrophenol	ND		ug/kg	11000	1100	10
4,6-Dinitro-o-cresol	ND		ug/kg	5900	1100	10
Pentachlorophenol	ND		ug/kg	1800	500	10
Phenol	ND		ug/kg	2300	340	10
2-Methylphenol	ND		ug/kg	2300	350	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	3300	360	10
2,4,5-Trichlorophenol	ND		ug/kg	2300	440	10
Carbazole	5500		ug/kg	2300	220	10
Atrazine	ND		ug/kg	1800	800	10
Benzaldehyde	ND		ug/kg	3000	620	10

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-01 D
 Client ID: DOC5E-16-211007-0740
 Sample Location: ROME, NY

Date Collected: 10/07/21 07:40
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	2300	700	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2300	460	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	92		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-02 D
 Client ID: DOC5E-17-211007-0800
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/13/21 09:22
 Analyst: JG
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	13000		ug/kg	810	100	5
Hexachlorobenzene	ND		ug/kg	610	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	910	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	270	5
2,4-Dinitrotoluene	ND		ug/kg	1000	200	5
2,6-Dinitrotoluene	ND		ug/kg	1000	170	5
Fluoranthene	11000		ug/kg	610	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	2900	920	5
Hexachloroethane	ND		ug/kg	810	160	5
Isophorone	ND		ug/kg	910	130	5
Naphthalene	6500		ug/kg	1000	120	5
Nitrobenzene	ND		ug/kg	910	150	5
NDPA/DPA	ND		ug/kg	810	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	350	5
Butyl benzyl phthalate	ND		ug/kg	1000	250	5
Di-n-butylphthalate	ND		ug/kg	1000	190	5
Di-n-octylphthalate	ND		ug/kg	1000	340	5
Diethyl phthalate	ND		ug/kg	1000	94.	5
Dimethyl phthalate	ND		ug/kg	1000	210	5
Benzo(a)anthracene	1600		ug/kg	610	110	5
Benzo(a)pyrene	580	J	ug/kg	810	250	5

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-02 D

Date Collected: 10/07/21 08:00

Client ID: DOC5E-17-211007-0800

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	710		ug/kg	610	170	5
Benzo(k)fluoranthene	260	J	ug/kg	610	160	5
Chrysene	1500		ug/kg	610	100	5
Acenaphthylene	ND		ug/kg	810	160	5
Anthracene	11000		ug/kg	610	200	5
Benzo(ghi)perylene	190	J	ug/kg	810	120	5
Fluorene	14000		ug/kg	1000	98.	5
Phenanthrene	31000		ug/kg	610	120	5
Dibenzo(a,h)anthracene	ND		ug/kg	610	120	5
Indeno(1,2,3-cd)pyrene	210	J	ug/kg	810	140	5
Pyrene	7400		ug/kg	610	100	5
Biphenyl	3800		ug/kg	2300	230	5
4-Chloroaniline	ND		ug/kg	1000	180	5
2-Nitroaniline	ND		ug/kg	1000	190	5
3-Nitroaniline	ND		ug/kg	1000	190	5
4-Nitroaniline	ND		ug/kg	1000	420	5
Dibenzofuran	11000		ug/kg	1000	96.	5
2-Methylnaphthalene	7000		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	100	5
Acetophenone	ND		ug/kg	1000	120	5
2,4,6-Trichlorophenol	ND		ug/kg	610	190	5
p-Chloro-m-cresol	ND		ug/kg	1000	150	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	910	160	5
2,4-Dimethylphenol	ND		ug/kg	1000	330	5
2-Nitrophenol	ND		ug/kg	2200	380	5
4-Nitrophenol	ND		ug/kg	1400	410	5
2,4-Dinitrophenol	ND		ug/kg	4800	470	5
4,6-Dinitro-o-cresol	ND		ug/kg	2600	480	5
Pentachlorophenol	ND		ug/kg	810	220	5
Phenol	ND		ug/kg	1000	150	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	160	5
2,4,5-Trichlorophenol	ND		ug/kg	1000	190	5
Carbazole	1600		ug/kg	1000	98.	5
Atrazine	ND		ug/kg	810	350	5
Benzaldehyde	ND		ug/kg	1300	270	5

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-02 D
 Client ID: DOC5E-17-211007-0800
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1000	310	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	45		10-136
4-Terphenyl-d14	55		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-03
 Client ID: DOC5E-18-211007-0815
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:15
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 15:26
 Analyst: JG
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	94	J	ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	97	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	54	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	27	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-03

Date Collected: 10/07/21 08:15

Client ID: DOC5E-18-211007-0815

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	22	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	46	J	ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	94	J	ug/kg	200	19.	1
Phenanthrene	270		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	61	J	ug/kg	160	28.	1
Pyrene	70	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	95	J	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	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	56	J	ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-03
 Client ID: DOC5E-18-211007-0815
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:15
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	70		18-120

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-04
 Client ID: DOC5E-19-211007-0825
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 15:48
 Analyst: JRW
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	81	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
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	34.	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	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	220		ug/kg	200	24.	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	68.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	34	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-04
 Client ID: DOC5E-19-211007-0825
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	23	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	53	J	ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	86	J	ug/kg	200	20.	1
Phenanthrene	230		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	130		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	83.	1
Dibenzofuran	75	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	49	J	ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-04
 Client ID: DOC5E-19-211007-0825
 Sample Location: ROME, NY

Date Collected: 10/07/21 08:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	56		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-05 D
 Client ID: DOC5E-20-211007-0910
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:10
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/14/21 05:19
 Analyst: IM
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 10/10/21 01:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	6300		ug/kg	840	110	5
Hexachlorobenzene	ND		ug/kg	630	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	940	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	280	5
2,4-Dinitrotoluene	ND		ug/kg	1000	210	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	32000		ug/kg	630	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	180	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	3000	940	5
Hexachloroethane	ND		ug/kg	840	170	5
Isophorone	ND		ug/kg	940	140	5
Naphthalene	2600		ug/kg	1000	130	5
Nitrobenzene	ND		ug/kg	940	150	5
NDPA/DPA	ND		ug/kg	840	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	360	5
Butyl benzyl phthalate	ND		ug/kg	1000	260	5
Di-n-butylphthalate	ND		ug/kg	1000	200	5
Di-n-octylphthalate	ND		ug/kg	1000	350	5
Diethyl phthalate	ND		ug/kg	1000	97.	5
Dimethyl phthalate	ND		ug/kg	1000	220	5
Benzo(a)anthracene	16000		ug/kg	630	120	5
Benzo(a)pyrene	12000		ug/kg	840	250	5

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-05 D

Date Collected: 10/07/21 09:10

Client ID: DOC5E-20-211007-0910

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	21000		ug/kg	630	180	5
Benzo(k)fluoranthene	7100		ug/kg	630	170	5
Chrysene	17000		ug/kg	630	110	5
Acenaphthylene	3200		ug/kg	840	160	5
Anthracene	4800		ug/kg	630	200	5
Benzo(ghi)perylene	5200		ug/kg	840	120	5
Fluorene	2600		ug/kg	1000	100	5
Phenanthrene	7300		ug/kg	630	130	5
Dibenzo(a,h)anthracene	1400		ug/kg	630	120	5
Indeno(1,2,3-cd)pyrene	7200		ug/kg	840	140	5
Pyrene	26000		ug/kg	630	100	5
Biphenyl	ND		ug/kg	2400	240	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	200	5
4-Nitroaniline	ND		ug/kg	1000	430	5
Dibenzofuran	1100		ug/kg	1000	99.	5
2-Methylnaphthalene	650	J	ug/kg	1200	130	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	110	5
Acetophenone	ND		ug/kg	1000	130	5
2,4,6-Trichlorophenol	ND		ug/kg	630	200	5
p-Chloro-m-cresol	ND		ug/kg	1000	160	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	940	170	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	390	5
4-Nitrophenol	ND		ug/kg	1500	420	5
2,4-Dinitrophenol	ND		ug/kg	5000	490	5
4,6-Dinitro-o-cresol	ND		ug/kg	2700	500	5
Pentachlorophenol	ND		ug/kg	840	230	5
Phenol	ND		ug/kg	1000	160	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	180	J	ug/kg	1500	160	5
2,4,5-Trichlorophenol	ND		ug/kg	1000	200	5
Carbazole	1300		ug/kg	1000	100	5
Atrazine	ND		ug/kg	840	360	5
Benzaldehyde	ND		ug/kg	1400	280	5

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-05 D
 Client ID: DOC5E-20-211007-0910
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:10
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1000	320	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	13	Q	23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	85		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-06 D
 Client ID: DOC5E-21-211007-0920
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/13/21 09:44
 Analyst: JG
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2100		ug/kg	830	110	5
Hexachlorobenzene	ND		ug/kg	620	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	930	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	280	5
2,4-Dinitrotoluene	ND		ug/kg	1000	210	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	1000		ug/kg	620	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	180	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	3000	940	5
Hexachloroethane	ND		ug/kg	830	170	5
Isophorone	ND		ug/kg	930	130	5
Naphthalene	19000		ug/kg	1000	130	5
Nitrobenzene	ND		ug/kg	930	150	5
NDPA/DPA	ND		ug/kg	830	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	360	5
Butyl benzyl phthalate	ND		ug/kg	1000	260	5
Di-n-butylphthalate	ND		ug/kg	1000	200	5
Di-n-octylphthalate	ND		ug/kg	1000	350	5
Diethyl phthalate	ND		ug/kg	1000	96.	5
Dimethyl phthalate	ND		ug/kg	1000	220	5
Benzo(a)anthracene	170	J	ug/kg	620	120	5
Benzo(a)pyrene	ND		ug/kg	830	250	5

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-06 D

Date Collected: 10/07/21 09:20

Client ID: DOC5E-21-211007-0920

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	620	170	5
Benzo(k)fluoranthene	ND		ug/kg	620	170	5
Chrysene	140	J	ug/kg	620	110	5
Acenaphthylene	ND		ug/kg	830	160	5
Anthracene	890		ug/kg	620	200	5
Benzo(ghi)perylene	ND		ug/kg	830	120	5
Fluorene	1700		ug/kg	1000	100	5
Phenanthrene	3700		ug/kg	620	130	5
Dibenzo(a,h)anthracene	ND		ug/kg	620	120	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	830	140	5
Pyrene	740		ug/kg	620	100	5
Biphenyl	450	J	ug/kg	2400	240	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	200	5
4-Nitroaniline	ND		ug/kg	1000	430	5
Dibenzofuran	1900		ug/kg	1000	98.	5
2-Methylnaphthalene	2300		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	110	5
Acetophenone	ND		ug/kg	1000	130	5
2,4,6-Trichlorophenol	ND		ug/kg	620	200	5
p-Chloro-m-cresol	ND		ug/kg	1000	150	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	930	170	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	390	5
4-Nitrophenol	ND		ug/kg	1400	420	5
2,4-Dinitrophenol	ND		ug/kg	5000	480	5
4,6-Dinitro-o-cresol	ND		ug/kg	2700	500	5
Pentachlorophenol	ND		ug/kg	830	230	5
Phenol	ND		ug/kg	1000	160	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1500	160	5
2,4,5-Trichlorophenol	ND		ug/kg	1000	200	5
Carbazole	950	J	ug/kg	1000	100	5
Atrazine	ND		ug/kg	830	360	5
Benzaldehyde	ND		ug/kg	1400	280	5

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-06 D
 Client ID: DOC5E-21-211007-0920
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1000	320	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	78		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-07
 Client ID: DOC5E-22-211007-0940
 Sample Location: ROME, NY

Date Collected: 10/07/21 09:40
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 16:34
 Analyst: JRW
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1500		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	1800		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	10000	E	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	510		ug/kg	130	24.	1
Benzo(a)pyrene	280		ug/kg	170	52.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-07

Date Collected: 10/07/21 09:40

Client ID: DOC5E-22-211007-0940

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	360		ug/kg	130	36.	1
Benzo(k)fluoranthene	120	J	ug/kg	130	34.	1
Chrysene	530		ug/kg	130	22.	1
Acenaphthylene	150	J	ug/kg	170	33.	1
Anthracene	2000		ug/kg	130	41.	1
Benzo(ghi)perylene	110	J	ug/kg	170	25.	1
Fluorene	1400		ug/kg	210	20.	1
Phenanthrene	3400		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	160	J	ug/kg	170	30.	1
Pyrene	1200		ug/kg	130	21.	1
Biphenyl	460	J	ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	1200		ug/kg	210	20.	1
2-Methylnaphthalene	3500		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Carbazole	580		ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	74.	1
Benzaldehyde	ND		ug/kg	280	57.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-07

Date Collected: 10/07/21 09:40

Client ID: DOC5E-22-211007-0940

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	210	64.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	43.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	55		18-120

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-07 D
Client ID: DOC5E-22-211007-0940
Sample Location: ROME, NY

Date Collected: 10/07/21 09:40
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/14/21 00:35
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 17:27

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

Naphthalene	13000		ug/kg	1000	130	5
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Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-08
 Client ID: DOC5E-23-211007-1020
 Sample Location: ROME, NY

Date Collected: 10/07/21 10:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 16:56
 Analyst: JRW
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	270		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	600		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	1500		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	250		ug/kg	130	24.	1
Benzo(a)pyrene	170		ug/kg	170	52.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-08

Date Collected: 10/07/21 10:20

Client ID: DOC5E-23-211007-1020

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	220		ug/kg	130	36.	1
Benzo(k)fluoranthene	83	J	ug/kg	130	34.	1
Chrysene	290		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	430		ug/kg	130	42.	1
Benzo(ghi)perylene	99	J	ug/kg	170	25.	1
Fluorene	360		ug/kg	210	21.	1
Phenanthrene	540		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	170	30.	1
Pyrene	490		ug/kg	130	21.	1
Biphenyl	87	J	ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	360		ug/kg	210	20.	1
2-Methylnaphthalene	240	J	ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	320		ug/kg	210	32.	1
2-Methylphenol	210		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	340		ug/kg	310	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Carbazole	90	J	ug/kg	210	21.	1
Atrazine	ND		ug/kg	170	75.	1
Benzaldehyde	ND		ug/kg	280	58.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-08
 Client ID: DOC5E-23-211007-1020
 Sample Location: ROME, NY

Date Collected: 10/07/21 10:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	210	65.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	43.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	56		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-09
 Client ID: DOC5E-24-211007-1045
 Sample Location: ROME, NY

Date Collected: 10/07/21 10:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 17:19
 Analyst: JRW
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	100	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	1400		ug/kg	200	24.	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	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-09

Date Collected: 10/07/21 10:45

Client ID: DOC5E-24-211007-1045

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	120		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	200		ug/kg	200	19.	1
Phenanthrene	380		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	62	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	150	J	ug/kg	200	19.	1
2-Methylnaphthalene	300		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	260		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-09

Date Collected: 10/07/21 10:45

Client ID: DOC5E-24-211007-1045

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	52		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-10
 Client ID: DOC5E-25-211007-1125
 Sample Location: ROME, NY

Date Collected: 10/07/21 11:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 17:41
 Analyst: JRW
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	27	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-10
 Client ID: DOC5E-25-211007-1125
 Sample Location: ROME, NY

Date Collected: 10/07/21 11:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	23	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-10
 Client ID: DOC5E-25-211007-1125
 Sample Location: ROME, NY

Date Collected: 10/07/21 11:25
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	59		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-11
 Client ID: DOC5E-32-211007-1420
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 11:40
 Analyst: JRW
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	41	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
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	82	J	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	110	J	ug/kg	200	24.	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	68.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	24	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-11
 Client ID: DOC5E-32-211007-1420
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	45	J	ug/kg	200	20.	1
Phenanthrene	130		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	52	J	ug/kg	160	28.	1
Pyrene	58	J	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	83.	1
Dibenzofuran	35	J	ug/kg	200	19.	1
2-Methylnaphthalene	38	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	ND		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	270	54.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-11
 Client ID: DOC5E-32-211007-1420
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:20
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	67		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-12
 Client ID: DOC5E-13-211007-1445
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/11/21 13:58
 Analyst: IM
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 10/09/21 10:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	330		ug/kg	200	24.	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	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-12
 Client ID: DOC5E-13-211007-1445
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	39	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	44	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	43	J	ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-12
 Client ID: DOC5E-13-211007-1445
 Sample Location: ROME, NY

Date Collected: 10/07/21 14:45
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	66		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-13
 Client ID: DOC5E-10-211007-1500
 Sample Location: ROME, NY

Date Collected: 10/07/21 15:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 12:48
 Analyst: JRW
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
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	26	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	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
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-13

Date Collected: 10/07/21 15:00

Client ID: DOC5E-10-211007-1500

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	28	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	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
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	24	J	ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	71.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-13
 Client ID: DOC5E-10-211007-1500
 Sample Location: ROME, NY

Date Collected: 10/07/21 15:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	62.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	61		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-14 D2

Date Collected: 10/07/21 16:00

Client ID: DOC5E-03-211007-1600

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 10/08/21 17:28

Analytical Date: 10/13/21 17:45

Analyst: JG

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	110000		ug/kg	16000	2100	100
Fluoranthene	290000		ug/kg	12000	2400	100
Naphthalene	260000		ug/kg	21000	2500	100
Benzo(a)anthracene	97000		ug/kg	12000	2300	100
Benzo(b)fluoranthene	85000		ug/kg	12000	3500	100
Chrysene	100000		ug/kg	12000	2100	100
Anthracene	120000		ug/kg	12000	4000	100
Fluorene	150000		ug/kg	21000	2000	100
Phenanthrene	400000		ug/kg	12000	2500	100
Pyrene	210000		ug/kg	12000	2000	100
Dibenzofuran	100000		ug/kg	21000	2000	100
2-Methylnaphthalene	100000		ug/kg	25000	2500	100

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-14 D
 Client ID: DOC5E-03-211007-1600
 Sample Location: ROME, NY

Date Collected: 10/07/21 16:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/13/21 10:28
 Analyst: JG
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	110000	E	ug/kg	1600	210	10
Hexachlorobenzene	ND		ug/kg	1200	230	10
Bis(2-chloroethyl)ether	ND		ug/kg	1800	280	10
2-Chloronaphthalene	ND		ug/kg	2100	200	10
3,3'-Dichlorobenzidine	ND		ug/kg	2100	550	10
2,4-Dinitrotoluene	ND		ug/kg	2100	410	10
2,6-Dinitrotoluene	ND		ug/kg	2100	350	10
Fluoranthene	160000	E	ug/kg	1200	240	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2100	220	10
4-Bromophenyl phenyl ether	ND		ug/kg	2100	320	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2500	350	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2200	210	10
Hexachlorobutadiene	ND		ug/kg	2100	300	10
Hexachlorocyclopentadiene	ND		ug/kg	5900	1900	10
Hexachloroethane	ND		ug/kg	1600	330	10
Isophorone	ND		ug/kg	1800	270	10
Naphthalene	150000	E	ug/kg	2100	250	10
Nitrobenzene	ND		ug/kg	1800	300	10
NDPA/DPA	ND		ug/kg	1600	230	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2100	320	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2100	710	10
Butyl benzyl phthalate	ND		ug/kg	2100	520	10
Di-n-butylphthalate	ND		ug/kg	2100	390	10
Di-n-octylphthalate	ND		ug/kg	2100	700	10
Diethyl phthalate	ND		ug/kg	2100	190	10
Dimethyl phthalate	ND		ug/kg	2100	430	10
Benzo(a)anthracene	98000	E	ug/kg	1200	230	10
Benzo(a)pyrene	59000		ug/kg	1600	500	10

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-14 D

Date Collected: 10/07/21 16:00

Client ID: DOC5E-03-211007-1600

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	84000	E	ug/kg	1200	350	10
Benzo(k)fluoranthene	34000		ug/kg	1200	330	10
Chrysene	98000	E	ug/kg	1200	210	10
Acenaphthylene	29000		ug/kg	1600	320	10
Anthracene	92000	E	ug/kg	1200	400	10
Benzo(ghi)perylene	31000		ug/kg	1600	240	10
Fluorene	140000	E	ug/kg	2100	200	10
Phenanthrene	180000	E	ug/kg	1200	250	10
Dibenzo(a,h)anthracene	10000		ug/kg	1200	240	10
Indeno(1,2,3-cd)pyrene	40000		ug/kg	1600	290	10
Pyrene	140000	E	ug/kg	1200	200	10
Biphenyl	29000		ug/kg	4700	480	10
4-Chloroaniline	ND		ug/kg	2100	380	10
2-Nitroaniline	ND		ug/kg	2100	400	10
3-Nitroaniline	ND		ug/kg	2100	390	10
4-Nitroaniline	ND		ug/kg	2100	850	10
Dibenzofuran	94000	E	ug/kg	2100	200	10
2-Methylnaphthalene	100000	E	ug/kg	2500	250	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2100	220	10
Acetophenone	ND		ug/kg	2100	260	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	390	10
p-Chloro-m-cresol	ND		ug/kg	2100	310	10
2-Chlorophenol	ND		ug/kg	2100	240	10
2,4-Dichlorophenol	ND		ug/kg	1800	330	10
2,4-Dimethylphenol	820	J	ug/kg	2100	680	10
2-Nitrophenol	ND		ug/kg	4500	780	10
4-Nitrophenol	ND		ug/kg	2900	840	10
2,4-Dinitrophenol	ND		ug/kg	9900	960	10
4,6-Dinitro-o-cresol	ND		ug/kg	5400	990	10
Pentachlorophenol	ND		ug/kg	1600	450	10
Phenol	610	J	ug/kg	2100	310	10
2-Methylphenol	430	J	ug/kg	2100	320	10
3-Methylphenol/4-Methylphenol	1200	J	ug/kg	3000	320	10
2,4,5-Trichlorophenol	ND		ug/kg	2100	400	10
Carbazole	52000		ug/kg	2100	200	10
Atrazine	ND		ug/kg	1600	720	10
Benzaldehyde	ND		ug/kg	2700	560	10

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-14 D
 Client ID: DOC5E-03-211007-1600
 Sample Location: ROME, NY

Date Collected: 10/07/21 16:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	2100	630	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2100	420	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	86		18-120

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-15
 Client ID: 4125-211007-0001
 Sample Location: ROME, NY

Date Collected: 10/07/21 00:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/09/21 14:18
 Analyst: JRW
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/08/21 17:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	78	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	390		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	98	J	ug/kg	200	24.	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	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	120		ug/kg	120	22.	1
Benzo(a)pyrene	95	J	ug/kg	160	49.	1

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-15
 Client ID: 4125-211007-0001
 Sample Location: ROME, NY

Date Collected: 10/07/21 00:00
 Date Received: 10/07/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	120		ug/kg	120	34.	1
Benzo(k)fluoranthene	39	J	ug/kg	120	32.	1
Chrysene	100	J	ug/kg	120	21.	1
Acenaphthylene	77	J	ug/kg	160	31.	1
Anthracene	160		ug/kg	120	39.	1
Benzo(ghi)perylene	77	J	ug/kg	160	24.	1
Fluorene	110	J	ug/kg	200	19.	1
Phenanthrene	460		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	28.	1
Pyrene	280		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	65	J	ug/kg	200	19.	1
2-Methylnaphthalene	28	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	91	J	ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-15

Date Collected: 10/07/21 00:00

Client ID: 4125-211007-0001

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	61		18-120

Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-16 D2

Client ID: 4125-211007-0002

Sample Location: ROME, NY

Date Collected: 10/07/21 00:00

Date Received: 10/07/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8270D

Analytical Date: 10/13/21 10:17

Analyst: IM

Percent Solids: 80%

Extraction Method: EPA 3546

Extraction Date: 10/09/21 10:01

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

Fluoranthene	260000		ug/kg	12000	2400	100
Phenanthrene	180000		ug/kg	12000	2500	100
Pyrene	190000		ug/kg	12000	2000	100

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-16 D

Date Collected: 10/07/21 00:00

Client ID: 4125-211007-0002

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 10/09/21 10:01

Analytical Date: 10/13/21 09:55

Analyst: IM

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23000		ug/kg	3300	430	20
Hexachlorobenzene	ND		ug/kg	2500	460	20
Bis(2-chloroethyl)ether	ND		ug/kg	3700	560	20
2-Chloronaphthalene	ND		ug/kg	4100	410	20
3,3'-Dichlorobenzidine	ND		ug/kg	4100	1100	20
2,4-Dinitrotoluene	ND		ug/kg	4100	820	20
2,6-Dinitrotoluene	ND		ug/kg	4100	710	20
Fluoranthene	260000	E	ug/kg	2500	470	20
4-Chlorophenyl phenyl ether	ND		ug/kg	4100	440	20
4-Bromophenyl phenyl ether	ND		ug/kg	4100	630	20
Bis(2-chloroisopropyl)ether	ND		ug/kg	4900	700	20
Bis(2-chloroethoxy)methane	ND		ug/kg	4400	410	20
Hexachlorobutadiene	ND		ug/kg	4100	600	20
Hexachlorocyclopentadiene	ND		ug/kg	12000	3700	20
Hexachloroethane	ND		ug/kg	3300	670	20
Isophorone	ND		ug/kg	3700	530	20
Naphthalene	56000		ug/kg	4100	500	20
Nitrobenzene	ND		ug/kg	3700	610	20
NDPA/DPA	ND		ug/kg	3300	470	20
n-Nitrosodi-n-propylamine	ND		ug/kg	4100	640	20
Bis(2-ethylhexyl)phthalate	ND		ug/kg	4100	1400	20
Butyl benzyl phthalate	ND		ug/kg	4100	1000	20
Di-n-butylphthalate	ND		ug/kg	4100	780	20
Di-n-octylphthalate	ND		ug/kg	4100	1400	20
Diethyl phthalate	ND		ug/kg	4100	380	20
Dimethyl phthalate	ND		ug/kg	4100	860	20
Benzo(a)anthracene	90000		ug/kg	2500	460	20
Benzo(a)pyrene	66000		ug/kg	3300	1000	20

Project Name: LOT 5E IRM

Lab Number: L2154924

Project Number: 127887-020

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-16 D

Date Collected: 10/07/21 00:00

Client ID: 4125-211007-0002

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	100000		ug/kg	2500	690	20
Benzo(k)fluoranthene	32000		ug/kg	2500	660	20
Chrysene	87000		ug/kg	2500	430	20
Acenaphthylene	18000		ug/kg	3300	640	20
Anthracene	68000		ug/kg	2500	800	20
Benzo(ghi)perylene	33000		ug/kg	3300	480	20
Fluorene	42000		ug/kg	4100	400	20
Phenanthrene	190000	E	ug/kg	2500	500	20
Dibenzo(a,h)anthracene	10000		ug/kg	2500	480	20
Indeno(1,2,3-cd)pyrene	38000		ug/kg	3300	570	20
Pyrene	190000	E	ug/kg	2500	410	20
Biphenyl	5000	J	ug/kg	9400	960	20
4-Chloroaniline	ND		ug/kg	4100	750	20
2-Nitroaniline	ND		ug/kg	4100	790	20
3-Nitroaniline	ND		ug/kg	4100	780	20
4-Nitroaniline	ND		ug/kg	4100	1700	20
Dibenzofuran	26000		ug/kg	4100	390	20
2-Methylnaphthalene	19000		ug/kg	4900	500	20
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	4100	430	20
Acetophenone	ND		ug/kg	4100	510	20
2,4,6-Trichlorophenol	ND		ug/kg	2500	780	20
p-Chloro-m-cresol	ND		ug/kg	4100	610	20
2-Chlorophenol	ND		ug/kg	4100	490	20
2,4-Dichlorophenol	ND		ug/kg	3700	660	20
2,4-Dimethylphenol	ND		ug/kg	4100	1400	20
2-Nitrophenol	ND		ug/kg	8900	1500	20
4-Nitrophenol	ND		ug/kg	5800	1700	20
2,4-Dinitrophenol	ND		ug/kg	20000	1900	20
4,6-Dinitro-o-cresol	ND		ug/kg	11000	2000	20
Pentachlorophenol	ND		ug/kg	3300	900	20
Phenol	620	J	ug/kg	4100	620	20
2-Methylphenol	ND		ug/kg	4100	640	20
3-Methylphenol/4-Methylphenol	1000	J	ug/kg	5900	640	20
2,4,5-Trichlorophenol	ND		ug/kg	4100	790	20
Carbazole	25000		ug/kg	4100	400	20
Atrazine	ND		ug/kg	3300	1400	20
Benzaldehyde	ND		ug/kg	5400	1100	20

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**SAMPLE RESULTS**

Lab ID: L2154924-16 D

Date Collected: 10/07/21 00:00

Client ID: 4125-211007-0002

Date Received: 10/07/21

Sample Location: ROME, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	4100	1200	20
2,3,4,6-Tetrachlorophenol	ND		ug/kg	4100	830	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 22:48
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 13:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,16 Batch: WG1556263-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 22:48
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 13:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,16 Batch: WG1556263-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
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.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 22:48
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 13:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,16 Batch: WG1556263-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	82		18-120

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/09/21 10:29
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-11,13-15 Batch: WG1556395-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
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.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/09/21 10:29
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-11,13-15 Batch: WG1556395-1					
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.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/09/21 10:29
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 17:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-11,13-15 Batch: WG1556395-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	96		18-120

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/11/21 12:24
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/09/21 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1556449-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
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	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	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.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/11/21 12:24
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/09/21 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1556449-1					
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	37.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/11/21 12:24
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/09/21 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1556449-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	56.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	90		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,16 Batch: WG1556263-2 WG1556263-3								
Acenaphthene	69		70		31-137	1		50
Hexachlorobenzene	71		72		40-140	1		50
Bis(2-chloroethyl)ether	59		68		40-140	14		50
2-Chloronaphthalene	71		73		40-140	3		50
3,3'-Dichlorobenzidine	76		69		40-140	10		50
2,4-Dinitrotoluene	76		76		40-132	0		50
2,6-Dinitrotoluene	82		81		40-140	1		50
Fluoranthene	76		77		40-140	1		50
4-Chlorophenyl phenyl ether	72		73		40-140	1		50
4-Bromophenyl phenyl ether	75		75		40-140	0		50
Bis(2-chloroisopropyl)ether	87		94		40-140	8		50
Bis(2-chloroethoxy)methane	64		67		40-117	5		50
Hexachlorobutadiene	68		75		40-140	10		50
Hexachlorocyclopentadiene	52		56		40-140	7		50
Hexachloroethane	67		74		40-140	10		50
Isophorone	64		67		40-140	5		50
Naphthalene	70		74		40-140	6		50
Nitrobenzene	72		77		40-140	7		50
NDPA/DPA	78		78		36-157	0		50
n-Nitrosodi-n-propylamine	67		71		32-121	6		50
Bis(2-ethylhexyl)phthalate	87		93		40-140	7		50
Butyl benzyl phthalate	82		82		40-140	0		50
Di-n-butylphthalate	78		81		40-140	4		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,16 Batch: WG1556263-2 WG1556263-3								
Di-n-octylphthalate	89		93		40-140	4		50
Diethyl phthalate	76		78		40-140	3		50
Dimethyl phthalate	69		71		40-140	3		50
Benzo(a)anthracene	76		78		40-140	3		50
Benzo(a)pyrene	84		84		40-140	0		50
Benzo(b)fluoranthene	81		84		40-140	4		50
Benzo(k)fluoranthene	78		78		40-140	0		50
Chrysene	72		76		40-140	5		50
Acenaphthylene	74		76		40-140	3		50
Anthracene	72		75		40-140	4		50
Benzo(ghi)perylene	76		78		40-140	3		50
Fluorene	76		77		40-140	1		50
Phenanthrene	71		73		40-140	3		50
Dibenzo(a,h)anthracene	72		75		40-140	4		50
Indeno(1,2,3-cd)pyrene	73		76		40-140	4		50
Pyrene	74		75		35-142	1		50
Biphenyl	68		71		37-127	4		50
4-Chloroaniline	59		57		40-140	3		50
2-Nitroaniline	83		83		47-134	0		50
3-Nitroaniline	78		71		26-129	9		50
4-Nitroaniline	74		70		41-125	6		50
Dibenzofuran	76		76		40-140	0		50
2-Methylnaphthalene	68		71		40-140	4		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,16 Batch: WG1556263-2 WG1556263-3								
1,2,4,5-Tetrachlorobenzene	69		73		40-117	6		50
Acetophenone	60		64		14-144	6		50
2,4,6-Trichlorophenol	78		81		30-130	4		50
p-Chloro-m-cresol	83		84		26-103	1		50
2-Chlorophenol	71		75		25-102	5		50
2,4-Dichlorophenol	74		74		30-130	0		50
2,4-Dimethylphenol	72		75		30-130	4		50
2-Nitrophenol	79		82		30-130	4		50
4-Nitrophenol	95		96		11-114	1		50
2,4-Dinitrophenol	47		56		4-130	17		50
4,6-Dinitro-o-cresol	82		81		10-130	1		50
Pentachlorophenol	68		65		17-109	5		50
Phenol	65		67		26-90	3		50
2-Methylphenol	72		75		30-130	4		50
3-Methylphenol/4-Methylphenol	78		79		30-130	1		50
2,4,5-Trichlorophenol	79		79		30-130	0		50
Carbazole	77		78		54-128	1		50
Atrazine	69		68		40-140	1		50
Benzaldehyde	58		61		40-140	5		50
Caprolactam	103		101		15-130	2		50
2,3,4,6-Tetrachlorophenol	76		76		40-140	0		50

Lab Control Sample Analysis Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,16 Batch: WG1556263-2 WG1556263-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		83		25-120
Phenol-d6	77		79		10-120
Nitrobenzene-d5	77		80		23-120
2-Fluorobiphenyl	73		76		30-120
2,4,6-Tribromophenol	80		81		10-136
4-Terphenyl-d14	75		76		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-11,13-15 Batch: WG1556395-2 WG1556395-3								
Acenaphthene	90		99		31-137	10		50
Hexachlorobenzene	87		95		40-140	9		50
Bis(2-chloroethyl)ether	87		96		40-140	10		50
2-Chloronaphthalene	92		95		40-140	3		50
3,3'-Dichlorobenzidine	88		82		40-140	7		50
2,4-Dinitrotoluene	94		102		40-132	8		50
2,6-Dinitrotoluene	99		102		40-140	3		50
Fluoranthene	96		104		40-140	8		50
4-Chlorophenyl phenyl ether	90		97		40-140	7		50
4-Bromophenyl phenyl ether	89		95		40-140	7		50
Bis(2-chloroisopropyl)ether	93		101		40-140	8		50
Bis(2-chloroethoxy)methane	91		100		40-117	9		50
Hexachlorobutadiene	82		86		40-140	5		50
Hexachlorocyclopentadiene	76		79		40-140	4		50
Hexachloroethane	82		92		40-140	11		50
Isophorone	96		105		40-140	9		50
Naphthalene	90		95		40-140	5		50
Nitrobenzene	93		103		40-140	10		50
NDPA/DPA	96		102		36-157	6		50
n-Nitrosodi-n-propylamine	95		105		32-121	10		50
Bis(2-ethylhexyl)phthalate	108		115		40-140	6		50
Butyl benzyl phthalate	107		116		40-140	8		50
Di-n-butylphthalate	104		114		40-140	9		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-11,13-15 Batch: WG1556395-2 WG1556395-3								
Di-n-octylphthalate	108		119		40-140	10		50
Diethyl phthalate	94		102		40-140	8		50
Dimethyl phthalate	97		101		40-140	4		50
Benzo(a)anthracene	94		105		40-140	11		50
Benzo(a)pyrene	97		113		40-140	15		50
Benzo(b)fluoranthene	93		108		40-140	15		50
Benzo(k)fluoranthene	98		114		40-140	15		50
Chrysene	88		95		40-140	8		50
Acenaphthylene	96		102		40-140	6		50
Anthracene	94		102		40-140	8		50
Benzo(ghi)perylene	94		105		40-140	11		50
Fluorene	94		100		40-140	6		50
Phenanthrene	91		99		40-140	8		50
Dibenzo(a,h)anthracene	100		113		40-140	12		50
Indeno(1,2,3-cd)pyrene	98		102		40-140	4		50
Pyrene	94		102		35-142	8		50
Biphenyl	90		96		37-127	6		50
4-Chloroaniline	79		104		40-140	27		50
2-Nitroaniline	100		106		47-134	6		50
3-Nitroaniline	82		86		26-129	5		50
4-Nitroaniline	89		100		41-125	12		50
Dibenzofuran	89		97		40-140	9		50
2-Methylnaphthalene	89		94		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-11,13-15 Batch: WG1556395-2 WG1556395-3								
1,2,4,5-Tetrachlorobenzene	85		90		40-117	6		50
Acetophenone	86		97		14-144	12		50
2,4,6-Trichlorophenol	91		97		30-130	6		50
p-Chloro-m-cresol	100		107	Q	26-103	7		50
2-Chlorophenol	89		99		25-102	11		50
2,4-Dichlorophenol	95		104		30-130	9		50
2,4-Dimethylphenol	101		113		30-130	11		50
2-Nitrophenol	90		102		30-130	13		50
4-Nitrophenol	104		114		11-114	9		50
2,4-Dinitrophenol	51		82		4-130	47		50
4,6-Dinitro-o-cresol	92		105		10-130	13		50
Pentachlorophenol	82		88		17-109	7		50
Phenol	97	Q	107	Q	26-90	10		50
2-Methylphenol	100		108		30-130	8		50
3-Methylphenol/4-Methylphenol	105		118		30-130	12		50
2,4,5-Trichlorophenol	98		101		30-130	3		50
Carbazole	94		104		54-128	10		50
Atrazine	109		105		40-140	4		50
Benzaldehyde	81		90		40-140	11		50
Caprolactam	102		109		15-130	7		50
2,3,4,6-Tetrachlorophenol	89		96		40-140	8		50

Lab Control Sample Analysis Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-11,13-15 Batch: WG1556395-2 WG1556395-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		101		25-120
Phenol-d6	96		106		10-120
Nitrobenzene-d5	94		99		23-120
2-Fluorobiphenyl	90		93		30-120
2,4,6-Tribromophenol	84		91		10-136
4-Terphenyl-d14	97		107		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1556449-2 WG1556449-3								
Acenaphthene	84		88		31-137	5		50
Hexachlorobenzene	86		91		40-140	6		50
Bis(2-chloroethyl)ether	74		87		40-140	16		50
2-Chloronaphthalene	84		96		40-140	13		50
3,3'-Dichlorobenzidine	94		90		40-140	4		50
2,4-Dinitrotoluene	90		94		40-132	4		50
2,6-Dinitrotoluene	97		110		40-140	13		50
Fluoranthene	90		96		40-140	6		50
4-Chlorophenyl phenyl ether	89		94		40-140	5		50
4-Bromophenyl phenyl ether	92		94		40-140	2		50
Bis(2-chloroisopropyl)ether	105		122		40-140	15		50
Bis(2-chloroethoxy)methane	77		88		40-117	13		50
Hexachlorobutadiene	82		97		40-140	17		50
Hexachlorocyclopentadiene	66		76		40-140	14		50
Hexachloroethane	81		94		40-140	15		50
Isophorone	79		89		40-140	12		50
Naphthalene	82		94		40-140	14		50
Nitrobenzene	86		98		40-140	13		50
NDPA/DPA	93		98		36-157	5		50
n-Nitrosodi-n-propylamine	82		92		32-121	11		50
Bis(2-ethylhexyl)phthalate	110		115		40-140	4		50
Butyl benzyl phthalate	97		103		40-140	6		50
Di-n-butylphthalate	96		102		40-140	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1556449-2 WG1556449-3								
Di-n-octylphthalate	110		116		40-140	5		50
Diethyl phthalate	92		98		40-140	6		50
Dimethyl phthalate	84		94		40-140	11		50
Benzo(a)anthracene	93		98		40-140	5		50
Benzo(a)pyrene	98		107		40-140	9		50
Benzo(b)fluoranthene	94		104		40-140	10		50
Benzo(k)fluoranthene	96		100		40-140	4		50
Chrysene	88		95		40-140	8		50
Acenaphthylene	88		100		40-140	13		50
Anthracene	87		92		40-140	6		50
Benzo(ghi)perylene	93		99		40-140	6		50
Fluorene	92		96		40-140	4		50
Phenanthrene	86		91		40-140	6		50
Dibenzo(a,h)anthracene	90		94		40-140	4		50
Indeno(1,2,3-cd)pyrene	91		94		40-140	3		50
Pyrene	90		95		35-142	5		50
Biphenyl	83		94		37-127	12		50
4-Chloroaniline	74		65		40-140	13		50
2-Nitroaniline	100		113		47-134	12		50
3-Nitroaniline	93		84		26-129	10		50
4-Nitroaniline	88		92		41-125	4		50
Dibenzofuran	92		96		40-140	4		50
2-Methylnaphthalene	81		92		40-140	13		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1556449-2 WG1556449-3								
1,2,4,5-Tetrachlorobenzene	81		94		40-117	15		50
Acetophenone	74		84		14-144	13		50
2,4,6-Trichlorophenol	93		107		30-130	14		50
p-Chloro-m-cresol	101		112	Q	26-103	10		50
2-Chlorophenol	84		96		25-102	13		50
2,4-Dichlorophenol	89		100		30-130	12		50
2,4-Dimethylphenol	88		99		30-130	12		50
2-Nitrophenol	97		107		30-130	10		50
4-Nitrophenol	114		126	Q	11-114	10		50
2,4-Dinitrophenol	53		88		4-130	50		50
4,6-Dinitro-o-cresol	90		103		10-130	13		50
Pentachlorophenol	81		87		17-109	7		50
Phenol	78		87		26-90	11		50
2-Methylphenol	87		98		30-130	12		50
3-Methylphenol/4-Methylphenol	95		106		30-130	11		50
2,4,5-Trichlorophenol	96		111		30-130	14		50
Carbazole	90		96		54-128	6		50
Atrazine	88		93		40-140	6		50
Benzaldehyde	69		78		40-140	12		50
Caprolactam	122		136	Q	15-130	11		50
2,3,4,6-Tetrachlorophenol	92		97		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1556449-2 WG1556449-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		103		25-120
Phenol-d6	90		100		10-120
Nitrobenzene-d5	89		99		23-120
2-Fluorobiphenyl	88		99		30-120
2,4,6-Tribromophenol	96		99		10-136
4-Terphenyl-d14	87		92		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab L2154924-11 Client ID: DOC5E-32-211007-1420 Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-4 WG1556395-5 QC Sample:												
Acenaphthene	41J	1620	1200	74		1300	81		31-137	8		50
Hexachlorobenzene	ND	1620	1200	74		1200	75		40-140	0		50
Bis(2-chloroethyl)ether	ND	1620	1200	74		1300	81		40-140	8		50
2-Chloronaphthalene	ND	1620	1200	74		1300	81		40-140	8		50
3,3'-Dichlorobenzidine	ND	1620	1200	74		1100	69		40-140	9		50
2,4-Dinitrotoluene	ND	1620	1400	86		1400	87		40-132	0		50
2,6-Dinitrotoluene	ND	1620	1400	86		1400	87		40-140	0		50
Fluoranthene	82J	1620	1300	80		1400	87		40-140	7		50
4-Chlorophenyl phenyl ether	ND	1620	1200	74		1300	81		40-140	8		50
4-Bromophenyl phenyl ether	ND	1620	1200	74		1200	75		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1620	1300	80		1400	87		40-140	7		50
Bis(2-chloroethoxy)methane	ND	1620	1200	74		1300	81		40-117	8		50
Hexachlorobutadiene	ND	1620	1200	74		1200	75		40-140	0		50
Hexachlorocyclopentadiene	ND	1620	1000	62		1100	69		40-140	10		50
Hexachloroethane	ND	1620	1200	74		1300	81		40-140	8		50
Isophorone	ND	1620	1300	80		1400	87		40-140	7		50
Naphthalene	110J	1620	1300	80		1400	87		40-140	7		50
Nitrobenzene	ND	1620	1300	80		1400	87		40-140	7		50
NDPA/DPA	ND	1620	1300	80		1300	81		36-157	0		50
n-Nitrosodi-n-propylamine	ND	1620	1300	80		1400	87		32-121	7		50
Bis(2-ethylhexyl)phthalate	ND	1620	1300	80		1400	87		40-140	7		50
Butyl benzyl phthalate	ND	1620	1400	86		1400	87		40-140	0		50
Di-n-butylphthalate	ND	1620	1300	80		1400	87		40-140	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab L2154924-11 Client ID: DOC5E-32-211007-1420 Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-4 WG1556395-5 QC Sample:												
Di-n-octylphthalate	ND	1620	1300	80		1400	87		40-140	7		50
Diethyl phthalate	ND	1620	1300	80		1300	81		40-140	0		50
Dimethyl phthalate	ND	1620	1300	80		1400	87		40-140	7		50
Benzo(a)anthracene	24J	1620	1300	80		1300	81		40-140	0		50
Benzo(a)pyrene	ND	1620	1400	86		1400	87		40-140	0		50
Benzo(b)fluoranthene	ND	1620	1400	86		1400	87		40-140	0		50
Benzo(k)fluoranthene	ND	1620	1300	80		1400	87		40-140	7		50
Chrysene	ND	1620	1200	74		1300	81		40-140	8		50
Acenaphthylene	ND	1620	1300	80		1400	87		40-140	7		50
Anthracene	ND	1620	1200	74		1300	81		40-140	8		50
Benzo(ghi)perylene	ND	1620	1400	86		1400	87		40-140	0		50
Fluorene	45J	1620	1300	80		1300	81		40-140	0		50
Phenanthrene	130	1620	1200	66		1400	79		40-140	15		50
Dibenzo(a,h)anthracene	ND	1620	1400	86		1500	94		40-140	7		50
Indeno(1,2,3-cd)pyrene	52J	1620	1200	74		1300	81		40-140	8		50
Pyrene	58J	1620	1300	80		1400	87		35-142	7		50
Biphenyl	ND	1620	1300	80		1300	81		37-127	0		50
4-Chloroaniline	ND	1620	1300	80		1400	87		40-140	7		50
2-Nitroaniline	ND	1620	1400	86		1600	100		47-134	13		50
3-Nitroaniline	ND	1620	1200	74		1200	75		26-129	0		50
4-Nitroaniline	ND	1620	1400	86		1400	87		41-125	0		50
Dibenzofuran	35J	1620	1200	74		1300	81		40-140	8		50
2-Methylnaphthalene	38J	1620	1200	74		1300	81		40-140	8		50

Matrix Spike Analysis **Batch Quality Control**

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab L2154924-11 Client ID: DOC5E-32-211007-1420 Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-4 WG1556395-5 QC Sample:												
1,2,4,5-Tetrachlorobenzene	ND	1620	1300	80		1300	81		40-117	0		50
Acetophenone	ND	1620	1400	86		1400	87		14-144	0		50
2,4,6-Trichlorophenol	ND	1620	1400	86		1500	94		30-130	7		50
p-Chloro-m-cresol	ND	1620	1400	86		1500	94		26-103	7		50
2-Chlorophenol	ND	1620	1300	80		1400	87		25-102	7		50
2,4-Dichlorophenol	ND	1620	1400	86		1400	87		30-130	0		50
2,4-Dimethylphenol	ND	1620	1400	86		1500	94		30-130	7		50
2-Nitrophenol	ND	1620	1300	80		1400	87		30-130	7		50
4-Nitrophenol	ND	1620	1400	86		1500	94		11-114	7		50
2,4-Dinitrophenol	ND	1620	260J	16		190J	12		4-130	31		50
4,6-Dinitro-o-cresol	ND	1620	930	57		920	57		10-130	1		50
Pentachlorophenol	ND	1620	960	59		1100	69		17-109	14		50
Phenol	ND	1620	1300	80		1400	87		26-90	7		50
2-Methylphenol	ND	1620	1300	80		1400	87		30-130.	7		50
3-Methylphenol/4-Methylphenol	ND	1620	1500	93		1500	94		30-130	0		50
2,4,5-Trichlorophenol	ND	1620	1300	80		1400	87		30-130	7		50
Carbazole	ND	1620	1300	80		1400	87		54-128	7		50
Atrazine	ND	1620	1500	93		1400	87		40-140	7		50
Benzaldehyde	ND	1620	1200	74		1300	81		40-140	8		50
Caprolactam	ND	1620	1500	93		1600	100		15-130	6		50
2,3,4,6-Tetrachlorophenol	ND	1620	1200	74		1300	81		40-140	8		50

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-4 WG1556395-5 QC Sample: L2154924-11 Client ID: DOC5E-32-211007-1420

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	70		71		10-136
2-Fluorobiphenyl	71		68		30-120
2-Fluorophenol	81		82		25-120
4-Terphenyl-d14	70		68		18-120
Nitrobenzene-d5	79		78		23-120
Phenol-d6	84		86		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab L2154924-13 Client ID: DOC5E-10-211007-1500 Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-6 WG1556395-7 QC Sample:												
Acenaphthene	ND	1620	1000	62		1400	86		31-137	33		50
Hexachlorobenzene	ND	1620	1000	62		1300	80		40-140	26		50
Bis(2-chloroethyl)ether	ND	1620	990	61		1300	80		40-140	27		50
2-Chloronaphthalene	ND	1620	1000	62		1400	86		40-140	33		50
3,3'-Dichlorobenzidine	ND	1620	890	55		1200	74		40-140	30		50
2,4-Dinitrotoluene	ND	1620	1200	74		1600	98		40-132	29		50
2,6-Dinitrotoluene	ND	1620	1200	74		1600	98		40-140	29		50
Fluoranthene	26J	1620	1100	68		1500	92		40-140	31		50
4-Chlorophenyl phenyl ether	ND	1620	1000	62		1300	80		40-140	26		50
4-Bromophenyl phenyl ether	ND	1620	1000	62		1400	86		40-140	33		50
Bis(2-chloroisopropyl)ether	ND	1620	1100	68		1500	92		40-140	31		50
Bis(2-chloroethoxy)methane	ND	1620	1000	62		1400	86		40-117	33		50
Hexachlorobutadiene	ND	1620	970	60		1300	80		40-140	29		50
Hexachlorocyclopentadiene	ND	1620	800	49		1100	68		40-140	32		50
Hexachloroethane	ND	1620	1000	62		1400	86		40-140	33		50
Isophorone	ND	1620	1100	68		1500	92		40-140	31		50
Naphthalene	ND	1620	1000	62		1400	86		40-140	33		50
Nitrobenzene	ND	1620	1100	68		1500	92		40-140	31		50
NDPA/DPA	ND	1620	1100	68		1400	86		36-157	24		50
n-Nitrosodi-n-propylamine	ND	1620	1100	68		1500	92		32-121	31		50
Bis(2-ethylhexyl)phthalate	ND	1620	1100	68		1500	92		40-140	31		50
Butyl benzyl phthalate	ND	1620	1100	68		1500	92		40-140	31		50
Di-n-butylphthalate	ND	1620	1100	68		1500	92		40-140	31		50

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab L2154924-13 Client ID: DOC5E-10-211007-1500 Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-6 WG1556395-7 QC Sample:												
Di-n-octylphthalate	ND	1620	1100	68		1500	92		40-140	31		50
Diethyl phthalate	ND	1620	1100	68		1500	92		40-140	31		50
Dimethyl phthalate	ND	1620	1100	68		1400	86		40-140	24		50
Benzo(a)anthracene	ND	1620	1100	68		1400	86		40-140	24		50
Benzo(a)pyrene	ND	1620	1200	74		1600	98		40-140	29		50
Benzo(b)fluoranthene	ND	1620	1100	68		1500	92		40-140	31		50
Benzo(k)fluoranthene	ND	1620	1100	68		1500	92		40-140	31		50
Chrysene	ND	1620	1000	62		1400	86		40-140	33		50
Acenaphthylene	ND	1620	1100	68		1400	86		40-140	24		50
Anthracene	ND	1620	1100	68		1400	86		40-140	24		50
Benzo(ghi)perylene	ND	1620	1200	74		1600	98		40-140	29		50
Fluorene	ND	1620	1100	68		1400	86		40-140	24		50
Phenanthrene	28J	1620	1000	62		1400	86		40-140	33		50
Dibenzo(a,h)anthracene	ND	1620	1200	74		1600	98		40-140	29		50
Indeno(1,2,3-cd)pyrene	ND	1620	1100	68		1400	86		40-140	24		50
Pyrene	ND	1620	1100	68		1400	86		35-142	24		50
Biphenyl	ND	1620	1100	68		1400	86		37-127	24		50
4-Chloroaniline	ND	1620	1100	68		1400	86		40-140	24		50
2-Nitroaniline	ND	1620	1200	74		1600	98		47-134	29		50
3-Nitroaniline	ND	1620	1100	68		1400	86		26-129	24		50
4-Nitroaniline	ND	1620	1200	74		1500	92		41-125	22		50
Dibenzofuran	ND	1620	1000	62		1400	86		40-140	33		50
2-Methylnaphthalene	ND	1620	1000	62		1400	86		40-140	33		50

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab L2154924-13 Client ID: DOC5E-10-211007-1500 Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-6 WG1556395-7 QC Sample:												
1,2,4,5-Tetrachlorobenzene	ND	1620	1000	62		1400	86		40-117	33		50
Acetophenone	ND	1620	1100	68		1500	92		14-144	31		50
2,4,6-Trichlorophenol	ND	1620	1200	74		1600	98		30-130	29		50
p-Chloro-m-cresol	ND	1620	1200	74		1600	98		26-103	29		50
2-Chlorophenol	ND	1620	1100	68		1500	92		25-102	31		50
2,4-Dichlorophenol	ND	1620	1200	74		1500	92		30-130	22		50
2,4-Dimethylphenol	ND	1620	1200	74		1500	92		30-130	22		50
2-Nitrophenol	ND	1620	1100	68		1500	92		30-130	31		50
4-Nitrophenol	ND	1620	1200	74		1600	98		11-114	29		50
2,4-Dinitrophenol	ND	1620	270J	17		280J	17		4-130	4		50
4,6-Dinitro-o-cresol	ND	1620	950	59		1200	74		10-130	23		50
Pentachlorophenol	ND	1620	800	49		1100	68		17-109	32		50
Phenol	ND	1620	1100	68		1500	92	Q	26-90	31		50
2-Methylphenol	ND	1620	1100	68		1500	92		30-130.	31		50
3-Methylphenol/4-Methylphenol	ND	1620	1200	74		1600	98		30-130	29		50
2,4,5-Trichlorophenol	ND	1620	1200	74		1600	98		30-130	29		50
Carbazole	24J	1620	1100	68		1500	92		54-128	31		50
Atrazine	ND	1620	1200	74		1600	98		40-140	29		50
Benzaldehyde	ND	1620	1000	62		1400	86		40-140	33		50
Caprolactam	ND	1620	1200	74		1600	98		15-130	29		50
2,3,4,6-Tetrachlorophenol	ND	1620	1000	62		1400	86		40-140	33		50

Matrix Spike Analysis

Batch Quality Control

Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-11,13-15 QC Batch ID: WG1556395-6 WG1556395-7 QC Sample: L2154924-13 Client ID: DOC5E-10-211007-1500

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	58		78		10-136
2-Fluorobiphenyl	54		77		30-120
2-Fluorophenol	67		90		25-120
4-Terphenyl-d14	54		73		18-120
Nitrobenzene-d5	67		90		23-120
Phenol-d6	69		93		10-120

INORGANICS & MISCELLANEOUS

Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-01**Client ID:** DOC5E-16-211007-0740**Sample Location:** ROME, NY**Date Collected:** 10/07/21 07:40**Date Received:** 10/07/21**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	71.8		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-02

Client ID: DOC5E-17-211007-0800

Sample Location: ROME, NY

Date Collected: 10/07/21 08:00

Date Received: 10/07/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-03**Client ID:** DOC5E-18-211007-0815**Sample Location:** ROME, NY**Date Collected:** 10/07/21 08:15**Date Received:** 10/07/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.9		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-04**Client ID:** DOC5E-19-211007-0825**Sample Location:** ROME, NY**Date Collected:** 10/07/21 08:25**Date Received:** 10/07/21**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	80.4		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-05**Client ID:** DOC5E-20-211007-0910**Sample Location:** ROME, NY**Date Collected:** 10/07/21 09:10**Date Received:** 10/07/21**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	78.4		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-06**Client ID:** DOC5E-21-211007-0920**Sample Location:** ROME, NY**Date Collected:** 10/07/21 09:20**Date Received:** 10/07/21**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	78.3		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-07**Client ID:** DOC5E-22-211007-0940**Sample Location:** ROME, NY**Date Collected:** 10/07/21 09:40**Date Received:** 10/07/21**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	78.6		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-08**Client ID:** DOC5E-23-211007-1020**Sample Location:** ROME, NY**Date Collected:** 10/07/21 10:20**Date Received:** 10/07/21**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	77.0		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-09**Client ID:** DOC5E-24-211007-1045**Sample Location:** ROME, NY**Date Collected:** 10/07/21 10:45**Date Received:** 10/07/21**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	81.6		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-10**Client ID:** DOC5E-25-211007-1125**Sample Location:** ROME, NY**Date Collected:** 10/07/21 11:25**Date Received:** 10/07/21**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	81.7		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM

Project Number: 127887-020

Lab Number: L2154924

Report Date: 10/14/21

SAMPLE RESULTS

Lab ID: L2154924-11

Client ID: DOC5E-32-211007-1420

Sample Location: ROME, NY

Date Collected: 10/07/21 14:20

Date Received: 10/07/21

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	81.4		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-12**Client ID:** DOC5E-13-211007-1445**Sample Location:** ROME, NY**Date Collected:** 10/07/21 14:45**Date Received:** 10/07/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-13**Client ID:** DOC5E-10-211007-1500**Sample Location:** ROME, NY**Date Collected:** 10/07/21 15:00**Date Received:** 10/07/21**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	81.3		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-14**Client ID:** DOC5E-03-211007-1600**Sample Location:** ROME, NY**Date Collected:** 10/07/21 16:00**Date Received:** 10/07/21**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	79.6		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-15**Client ID:** 4125-211007-0001**Sample Location:** ROME, NY**Date Collected:** 10/07/21 00:00**Date Received:** 10/07/21**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	81.0		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Project Name: LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21**SAMPLE RESULTS****Lab ID:** L2154924-16**Client ID:** 4125-211007-0002**Sample Location:** ROME, NY**Date Collected:** 10/07/21 00:00**Date Received:** 10/07/21**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	79.8		%	0.100	NA	1	-	10/08/21 10:41	121,2540G	RI



Lab Duplicate Analysis
*Batch Quality Control***Project Name:** LOT 5E IRM**Project Number:** 127887-020**Lab Number:** L2154924**Report Date:** 10/14/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1556021-1 QC Sample: L2154924-11 Client ID: DOC5E-32-211007-1420						
Solids, Total	81.4	81.6	%	0		20

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154924-01A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-01B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-01C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-01D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-01E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-02A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-02B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-02C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-02D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-02E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-03A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-03B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-03C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-03D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-03E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-04A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-04B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-04C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-04D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-04E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-05A	Vial MeOH preserved	B	NA		2.7	Y	Absent		ARCHIVE()
L2154924-05B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154924-05C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-05D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-05E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8260HLW-R2(14)
L2154924-05X	Vial MeOH preserved split	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-06A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-06B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-06C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-06D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-06E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-07A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-07B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-07C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-07D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-07E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-08A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-08B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-08C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-08D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-08E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-09A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-09B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-09C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-09D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2154924-09E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-10A	Vial MeOH preserved	B	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-10B	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-10C	Vial water preserved	B	NA		2.7	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-10D	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)

Project Name: LOT 5E IRM**Lab Number:** L2154924**Project Number:** 127887-020**Report Date:** 10/14/21**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154924-10E	Glass 120ml/4oz unpreserved	B	NA		2.7	Y	Absent		NYTCL-8270(14)
L2154924-11A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-11A1	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-11A2	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-11B	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-11B1	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-11B2	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-11C	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-11C1	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-11C2	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-11D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-11D1	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-11D2	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-11E	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-11E1	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-11E2	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-12A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-12B	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-12C	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-12D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-12E	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-13A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-13A1	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-13A2	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-13B	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-13B1	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-13B2	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-13C	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)

Project Name: LOT 5E IRM
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154924-13C1	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-13C2	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-13D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-13D1	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-13E	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-13E1	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-13E2	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TS(7)
L2154924-14A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-14B	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-14C	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-14D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-14E	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-15A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-15B	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-15C	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-15D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2154924-15E	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14)
L2154924-16A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2154924-16B	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-16C	Vial water preserved	A	NA		4.3	Y	Absent	08-OCT-21 07:31	NYTCL-8260HLW-R2(14)
L2154924-16D	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TS(7)

Container Comments

L2154924-05A Vial received empty

Project Name: LOT 5E IRM
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GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers



Project Name: LOT 5E IRM
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: LOT 5E IRM
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Data Qualifiers

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

Project Name: LOT 5E IRM
Project Number: 127887-020

Lab Number: L2154924
Report Date: 10/14/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625/625.1: alpha-Terpineol

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, 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 I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211011N\
 Data File : V27211011N08.D
 Acq On : 11 Oct 2021 09:36 pm
 Operator : VOA127:JC
 Sample : L2154924-02,31,8.61,5,,B,PRI
 Misc : WG1557402,ICAL18360
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 12 07:51:15 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211011N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve1.D•

