Greenfield Environmental Multistate Trust LLC
Trustee of the Multistate Environmental Response Trust
Greenfield Environmental Trust Group, Inc., Member
1920 232nd Place SE
Bothell, WA 98021
(206)890-6293
ke@g-etg.com

June 26, 2018

By E-mail – peter.ouderkirk@dec.ny.gov

Mr. Peter S. Ouderkirk, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 6
Dulles State Office Building
317 Washington Street
Watertown, New York 13601-3787

Subject: Cinder Ash Investigation Report
Lots 3B, 5E, 5D, 4, and the Railroad Parcel
Former Federal Creosote Site
Rome, Oneida County, New York
P-Site #633088 and #633087

Dear Mr. Ouderkirk:

By this letter, Greenfield Environmental Multistate Trust LLC, not individually but solely in its representative capacity as Trustee of the Multistate Environmental Response Trust (the Multistate Trust), respectfully submits this Cinder Ash Investigation Report for the Former Federal Creosote Sites (P-Sites #633088 and #633087), collectively referred to herein as the "Site." The investigation work documented herein was performed in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Cinder Ash Investigation Work Plan (CAI Work Plan) dated April 2, 2018. The Multistate Trust has implemented Environmental Actions pursuant to NYSDEC-approved work plans at the Site since assuming responsibility for the Site on February 14, 2011 in connection with the global resolution of the Tronox Inc. bankruptcy.

Purpose

This investigation was conducted to further assess the nature and extent of historic cinder ash fill material typically present in layers of various thicknesses between ground surface and two feet below ground surface. The objective of the investigation was to test cinder ash fill found in the top two feet across the investigation area for the toxicity hazardous waste characteristic. Samples were collected from Lot 3B, Lot 5E, the Railroad Parcel, the northern portion of Lot 5D, and the western portion of Lot 4. The investigation area is shown on Figures 1A and 1B.

Background

As summarized in the CAI Work Plan, previous investigations conducted by Haley & Aldrich of New York (Haley & Aldrich) and others identified the presence of cinder ash in the investigation area and characterized it using direct analyses (metals and organic compounds). Toxicity Characteristic Leaching Procedure (TCLP) analysis was not performed as part of those previous investigations. It was found that the cinder ash fill contains elevated concentrations of metals, particularly arsenic (As) and, in some instances, mercury (Hg) and compounds indicative of incomplete combustion (i.e., various high molecular weight polycyclic aromatic hydrocarbons [PAHs]) typical of urban fill. The arsenic concentrations suggest the potential for leachable arsenic via TCLP analysis.

An Interim Remedial Measure (IRM) was conducted on Lot 3B during 2016 and 2017 to address creosote-saturated soil. It was known at the time that cinder ash fill material was present on Lot 3B and would need to be addressed in the future with appropriate cover since the focus of the IRM was creosote. Cinder ash fill remains on Lot 3B in the areas that were not excavated to remove creosote-saturated soil. These areas also contain wetland and, even though these areas were not excavated, they were disturbed during the IRM and are required to be restored as wetland. Wetland restoration will require removal of the cinder ash fill material in the top two-feet if it exhibits toxicity hazardous waste characteristic. If the cinder ash fill material does not exhibit toxicity hazardous characteristics, only one foot of material within the wetland would require removal followed by placement of at least one foot of clean imported soil suitable for the growth of wetland plant species. Wetland restoration may result in more or less cinder ash removal and disposal depending on what is necessary to achieve the appropriate hydrology. The investigation results provide insight on the likelihood that future waste characterization analysis (once cinder ash fill is excavated) could result in hazardous waste generation. The results also provide insight on the nature of the cinder ash fill that would remain in place.

An additional IRM will be planned to address creosote-saturated soil on Lot 5E and the Railroad Parcel. The investigation results will also be used to plan that IRM as cinder ash fill and wetlands are also present on those properties.

Cinder Ash Investigation Procedure

Twenty (20) shallow test pits using a shovel were installed in the investigation area on May 9, 2018 by Haley & Aldrich. It is noted the CAI Work Plan indicated that the locations would be installed with a hand auger; however, due to soil conditions, the hand auger was not practical. The locations were geo-located using Global Position System (GPS) equipment. Each sample location was also staked for future location via survey. Sample locations are shown on Figures 1A and 1B. The shovel test pits were advanced to 24 inches below ground surface (bgs) in each location, with the exception of HA-STP-04 due to debris in the hole causing refusal. The thickness of the cinder ash fill layer, if encountered, was recorded as shown in the Shovel Test Pit Summary in Appendix A. Cinder ash fill was encountered in 14 out of the 20 borings as shown on Figures 1A and 1B and documented in Appendix A.

One composite sample of cinder ash was collected from each of the 14 samples. Samples were collected in laboratory-supplied glassware and submitted to Alpha Analytical of Westborough, Massachusetts for analysis of TCLP metals by EPA SW-846 Method 1311/6010/7471, and corrosivity by EPA SW-846 Method 9045D. One duplicate sample was also collected from location HA-STP-20. A sample was not collected from locations where cinder ash was not observed. Following sampling, the test pits were backfilled with the soil cuttings.

Summary of Results

Laboratory results were reported using NYSDEC ASP Category B equivalent data deliverables. The laboratory data generated was reduced and validated by a NYSDEC-approved Data Validator prior to reporting in accordance with National Functional Guidelines for Inorganic Superfund Methods Data Review (OLEM 9355.01-135) EPA-540/R-2017/001, dated January 2017. Results were compared to the US EPA Maximum Concentrations of Contaminants for the Toxicity Characteristic (TCLP limits) and the hazardous waste threshold for corrosivity, and are summarized on Table I. Laboratory data are included for reference in Appendix B.

Barium, lead, and selenium were detected in multiple samples by the TCLP method, but such detections were below the TCLP limits. Other metals, including arsenic, were not detected by the TCLP method. Corrosivity results were within a pH range of 4.9 and 7.8, which is not hazardous.

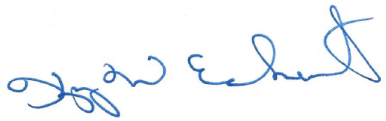
Conclusions

The investigation results indicate that the cinder ash fill was not present at every investigation location, and the cinder ash fill tested does not exhibit hazardous waste characteristics, toxicity (from metals), or corrosivity. Therefore, as the Multistate Trust understands it, removal of only one foot of fill containing cinder ash will be required for wetland restoration in the investigation area following completion of remedial actions.

It is noted that, if cinder ash fill is generated for disposal, additional testing, including TCLP for metals and corrosivity, may be required by the disposal facility. There is still potential that cinder ash fill material generated for disposal may exhibit hazardous waste characteristics upon additional testing and would therefore require management as hazardous waste.

Sincerely,

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



Kipp W. Eckert, P.E.
Portfolio & Project Manager

Attachments:
Table I – Summary of Analytical Results – Cinder Ash Investigation
Figure 1A – Cinder Ash Sample Locations (Lots 3B, 5E, 5D, and Railroad)
Figure 1B – Cinder Ash Sample Locations (Lot 4)
Appendix A – Shovel Test Pit Summary
Appendix B – Laboratory Data

Copies sent via email:
Peter Taylor, NYSDEC
Mary Jo Crance, NYSDEC
Greg Rys, NYSDOH
Maureen Shuck, NYSDOH
Marc Weinreich, Multistate Trust
Lauri Gorton, Multistate Trust
Craig Kaufman, Multistate Trust
Glenn White, Haley & Aldrich

Table 1
Summary of Analytical Results – Cinder Ash Investigation

TABLE I
SUMMARY OF ANALYTICAL RESULTS
CINDER ASH INVESTIGATION
FORMER FEDERAL CREOSOTE SITE
ROME, NY

Location Sample Date Sample Name	Hazardous Waste Criteria [1]	HA-STP-01 05/09/2018 HASTP01-180509-1000	HA-STP-02 05/09/2018 HASTP02-180509-1030	HA-STP-03 05/09/2018 HASTP03-180509-1050	HA-STP-04 05/09/2018 HASTP04-180509-1120	HA-STP-05 05/09/2018 HASTP05-180509-1140	HA-STP-07 05/09/2018 HASTP07-180509-1155	HA-STP-08 05/09/2018 HASTP08-180509-1215	HA-STP-09 05/09/2018 HASTP09-180509-1230
Other (pH units)									
pH (lab)	<2; >12.5	**7.5**	**7.8**	**6.9**	**4.9**	**7.2**	**6**	**5.6**	**7.3**
TCLP Inorganic Compounds (mg/L)									
Arsenic	5	ND (1)	ND (1)	ND (1)	**0.093 J**	ND (1)	**0.023 J**	ND (1)	ND (1)
Barium	100	**0.201 J**	**0.732**	**0.3 J**	**0.089 J**	**0.118 J**	**0.132 J**	**0.174 J**	**0.657**
Cadmium	1	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Chromium	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Lead	5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	**0.028 J**	**1.24**	**0.091 J**	ND (0.5)
Mercury	0.2	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Selenium	1	**0.036 J**	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	5	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)

Notes:
1. Hazarous Waste Criteria include the following:
   a) pH was compared to US EPA hazardous waste criteria for corrosivity (less than 2 or greater than 12.5)
   b) TCLP Inorganics were compared to the US EPA Maximum Concentrations for Contaminants for the Toxicity Characteristic.
   c) Results in red exceed the Hazardous Waste Criteria
2. Results in **bold** were detected.
3. ND - Results not detected above reporting limit.
   J - Estimated value
4. Results have been validated by Haley & Aldrich

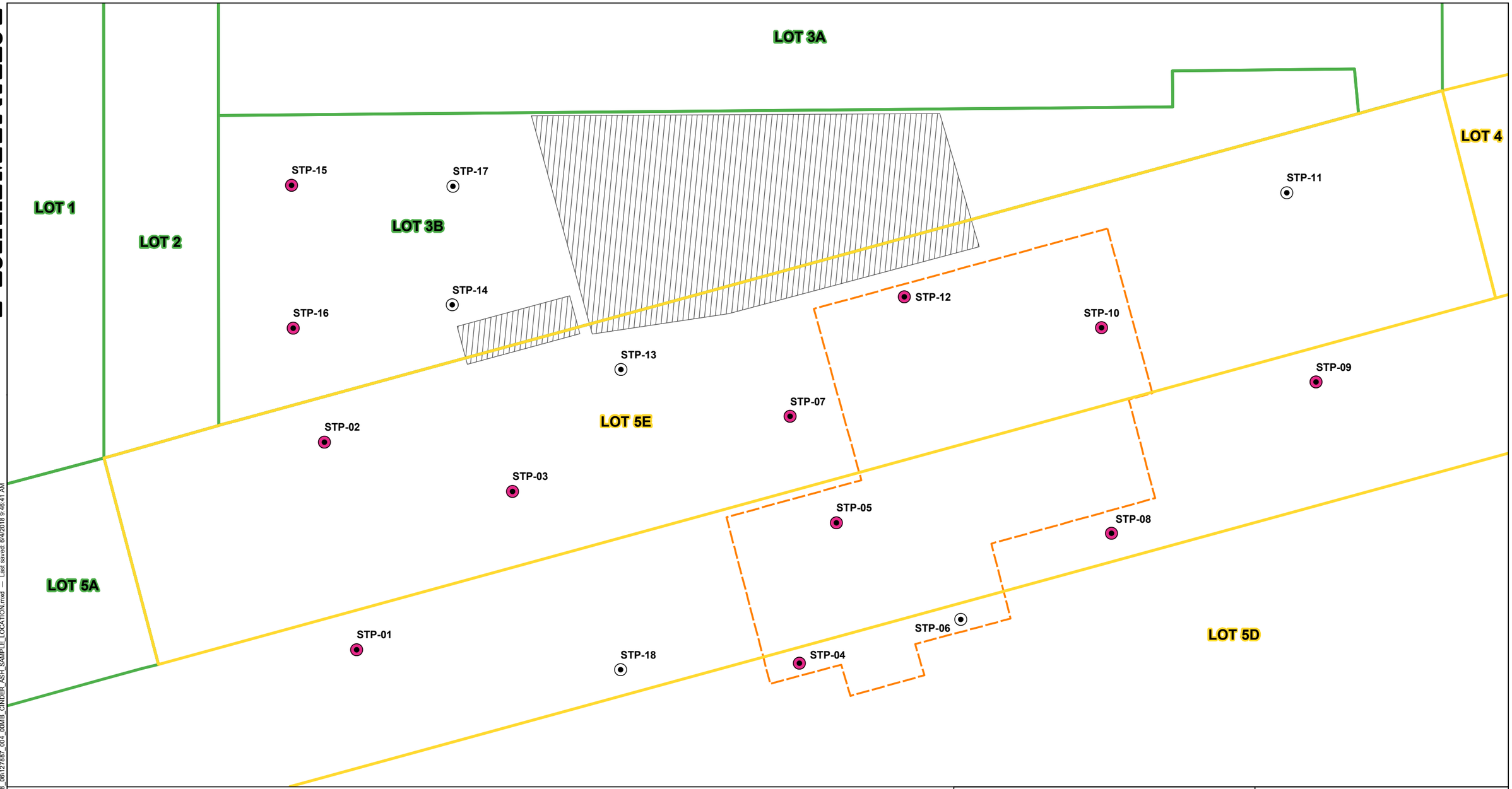
TABLE I
SUMMARY OF ANALYTICAL RESULTS
CINDER ASH INVESTIGATION
FORMER FEDERAL CREOSOTE SITE
ROME, NY

Location Sample Date Sample Name	Hazardous Waste Criteria [1]	HA-STP-10 05/09/2018 HASTP10-180509-1245	HA-STP-12 05/09/2018 HASTP12-180509-1255	HA-STP-15 05/09/2018 HASTP15-180509-1350	HA-STP-16 05/09/2018 HASTP16-180509-1335	HA-STP-19 05/09/2018 HASTP19-180509-1420	HA-STP-20 05/09/2018 HASTP20-180509-1445	HA-STP-20 (Dup) 05/09/2018 3188-180509-0001
Other (pH units)								
pH (lab)	<2; >12.5	**7**	**7.6**	**6.6**	**7.3**	**6.6**	**7.3**	**7.3**
TCLP Inorganic Compounds (mg/L)								
Arsenic	5	ND (1)	ND (1)	**0.073 J**	ND (1)	ND (1)	ND (1)	ND (1)
Barium	100	**0.281 J**	**0.221 J**	**0.348 J**	**0.727**	**0.109 J**	**0.219 J**	**0.184 J**
Cadmium	1	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Chromium	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Lead	5	**0.031 J**	ND (0.5)	**0.036 J**	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Mercury	0.2	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Selenium	1	ND (0.5)	**0.035 J**	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Silver	5	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)

Notes:
1. Hazarous Waste Criteria include the following:
   a) pH was compared to US EPA hazardous waste criteria for corrosivity (less than 2 or greater than 12.5)
   b) TCLP Inorganics were compared to the US EPA Maximum Concentrations for Contaminants for the Toxicity Characteristic.
   c) Results in red exceed the Hazardous Waste Criteria
2. Results in **bold** were detected.
3. ND - Results not detected above reporting limit.
   J - Estimated value
4. Results have been validated by Haley & Aldrich

Figure 1A
Cinder Ash Sample Locations (Lots 3B, 5E, 5D, and Railroad)

PRELIMINARY



EXPLANATION

- Multistate Trust-owned parcel
- Parcel owned by others
- Approximate limits of creosote saturation area based on 2017 investigation
- Limits of 2016 Lot 3B IRM excavation
- Delineated emergent wetland
- Delineated forested wetland

Shovel test pit (Haley & Aldrich of New York, 2018)

- Cinder ash identified and sample collected
- Cinder ash not identified and sample not collected

NOTES

1. All dimensions and locations are approximate.
2. 2018 sample locations were geo-located using Global Positioning System (GPS) coordinates.
3. Assessor parcel data source: Oneida County and Hoffman Land Surveying and Geomatics survey
4. Wetland on Lot 3B and 5E was impacted during remediation in 2016.
5. Aerial imagery source: Pictometry 2013

PROJECT LOCATION

SCALE IN FEET
0 25 50

Prepared for:

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

FORMER FEDERAL CREOSOTE SITE
ROME, NEW YORK

FIGURE 1A

2018 CINDER ASH SAMPLE LOCATIONS (LOTS 3B, 5E, 5D, AND RAILROAD)

PROJECT: 127887	BY: ANICHOLS	REVISIONS:
DATE: JUN 2018	CHECKED: GW	

HALEY & ALDRICH OF NEW YORK

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Figure 1B
Cinder Ash Sample Locations (Lot 4)

PRELIMINARY

LOT 4

STP-19

STP-20

LOT 5C

EXPLANATION

- Multistate Trust-owned
- Parcel owned by others
- Parcel boundary
- Delineated emergent wetland
- Delineated scrub/shrub wetland
- Delineated forested wetland

Shovel test pit (Haley & Aldrich of New York, 2018)

- Cinder ash identified and sample
- Former rail dock concrete retaining wall

NOTES

1. All dimensions and locations are approximate.
2. 2018 sample locations were geo-located using Global Positioning System (GPS) coordinates.
3. Assessor parcel data source: Oneida County and Hoffman Land Surveying and Geomatics survey
4. Aerial imagery source: Pictometry 2013

NY

PROJECT LOCATION

SCALE IN FEET
0 40 80

Prepared for:

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

FORMER FEDERAL CREOSOTE SITE
ROME, NEW YORK

FIGURE 1B

2018 CINDER ASH SAMPLE LOCATIONS (LOT 4)

PROJECT: 127887	BY: ANICHOLS	REVISIONS:
DATE: JUN 2018	CHECKED: GW	

HALEY & ALDRICH OF NEW YORK

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Appendix A
Shovel Test Pit Summary

HALEY ALDRICH

SHOVEL TEST PIT SUMMARY

PROJECT	Former Federal Creosote Site - Cinder Ash Investigation	**H&A FILE NO.**	127887-004/6.1.1
LOCATION	Rome, New York	**PROJECT MGR.**	C. Mondello
CLIENT	Greenfield Environmental Multistate Trust, LLC	**FIELD REP**	S. Burke
CONTRACTOR	N/A	**DATE**	5/9/2018
EQUIPMENT	Hand Shovel	**DRILLER**	N/A

Test Pit No.	Depth Probed From (in.)	Depth Probed To (in.)	Soil Strata Description (top of pit to base of pit)	Depth to Water	Sample Name
HA-STP-01	0	24	0-6 in. CINDERS with sand-silt; 6-18 in. SAND with crushed gravel; 18-24 in. SAND	8 in.	HASTP01-180509-1000
HA-STP-02	0	24	0-8 in. CINDERS with silt-sand; 8-20 in SAND with crushed gravel; 20-24 in. SAND	--	HASTP02-180509-1030
HA-STP-03	0	24	0-10 in. CINDERS with organics and topsoil; 10-24 in. SAND with crushed gravel	15 in.	HASTP03-180509-1050
HA-STP-04	0	12	0-12 in. CINDERS with organics and topsoil; 12 in. refusal on debris.	--	HASTP04-180509-1120
HA-STP-05	0	24	0-24 in. CINDERS with sand	6 in.	HASTP05-180509-1140
HA-STP-06	0	24	0-9 in. ORGANICS; 9-24 in. SAND with crushed gravel	--	No Sample
HA-STP-07	0	24	0-8 in. CINDERS with sand and organics; 8-24 in. SAND	13 in.	HASTP07-180509-1155
HA-STP-08	0	24	0-10 in. CINDERS with sand and crushed gravel; 10-24 in. SAND with crushed gravel	--	HASTP08-180509-1215
HA-STP-09	0	24	0-10 in. CINDERS with sand; 10-24 in. SAND	6 in.	HASTP09-180509-1230
HA-STP-10	0	24	0-12 in. CINDERS with sand and crushed gravel; 12-24 in. SAND with crushed gravel	--	HASTP10-180509-1245
HA-STP-11	0	24	0-24 in. SAND with organics and topsoil and clay	--	No Sample
HA-STP-12	0	24	0-15 in. CINDER with sand; 15-24 in. SAND	--	HASTP12-180509-1255
HA-STP-13	0	24	0-6 in. BANK RUN; 6-24 in. SAND	--	No Sample
HA-STP-14	0	24	0-3 in. BANK RUN; 3-12 in. SAND with crushed gravel; 12-24 in. SAND	3 in.	No Sample
HA-STP-15	0	24	0-15 in. CINDER with sand; 15-24 in. SAND	2 in.	HASTP15-180509-1350
HA-STP-16	0	24	0-24 in. CINDER with sand and crushed gravel	5 in.	HASTP16-180509-1335
HA-STP-17	0	24	0-24 in. SAND with gravel	5 in.	No Sample
HA-STP-18	0	24	0-6 in. TOPSOIL; 6-24 in. SAND with crushed gravel	6 in.	No Sample
HA-STP-19	0	24	0-24 in. CINDERS with organics	--	HASTP19-180509-1420
HA-STP-20	0	24	0-24 in. CINDERS	--	HASTP20-180509-1445 3188-180509-0001

Appendix B
Laboratory Data

ANALYTICAL REPORT

Lab Number:	L1816866
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Sam Burke
Phone:	(585) 321-4263
Project Name:	ROME-CINDER ASH
Project Number:	127887-004
Report Date:	05/15/18

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

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

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1816866-01	HASTP01-180509-1000	SOIL	ROME, NY	05/09/18 10:00	05/09/18
L1816866-02	HASTP02-180509-1030	SOIL	ROME, NY	05/09/18 10:30	05/09/18
L1816866-03	HASTP03-180509-1050	SOIL	ROME, NY	05/09/18 10:50	05/09/18
L1816866-04	HASTP04-180509-1120	SOIL	ROME, NY	05/09/18 11:20	05/09/18
L1816866-05	HASTP05-180509-1140	SOIL	ROME, NY	05/09/18 11:40	05/09/18
L1816866-06	HASTP07-180509-1155	SOIL	ROME, NY	05/09/18 11:55	05/09/18
L1816866-07	HASTP08-180509-1215	SOIL	ROME, NY	05/09/18 12:15	05/09/18
L1816866-08	HASTP09-180509-1230	SOIL	ROME, NY	05/09/18 12:30	05/09/18
L1816866-09	HASTP10-180509-1245	SOIL	ROME, NY	05/09/18 12:45	05/09/18
L1816866-10	HASTP12-180509-1255	SOIL	ROME, NY	05/09/18 12:55	05/09/18
L1816866-11	HASTP15-180509-1350	SOIL	ROME, NY	05/09/18 13:50	05/09/18
L1816866-12	HASTP16-180509-1335	SOIL	ROME, NY	05/09/18 13:35	05/09/18
L1816866-13	HASTP19-180509-1420	SOIL	ROME, NY	05/09/18 14:20	05/09/18
L1816866-14	HASTP20-180509-1445	SOIL	ROME, NY	05/09/18 14:45	05/09/18
L1816866-15	3188-180509-0001	SOIL	ROME, NY	05/09/18 00:00	05/09/18

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	ROME-CINDER ASH	**Lab Number:**	L1816866
Project Number:	127887-004	**Report Date:**	05/15/18

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 05/15/18

METALS

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-01
Client ID: HASTP01-180509-1000
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 10:00
Date Received: 05/09/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC
Barium, TCLP	0.201	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:15	EPA 7470A	1,7470A	EA
Selenium, TCLP	0.036	J	mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 08:21	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-02
Client ID: HASTP02-180509-1030
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 10:30
Date Received: 05/09/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC
Barium, TCLP	0.732		mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:21	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 08:46	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-03
Client ID: HASTP03-180509-1050
Sample Location: ROME, NY
Date Collected: 05/09/18 10:50
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC
Barium, TCLP	0.300	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:22	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 08:50	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-04
Client ID: HASTP04-180509-1120
Sample Location: ROME, NY
Date Collected: 05/09/18 11:20
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.093	J	mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC
Barium, TCLP	0.089	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:24	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 08:55	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-05
Client ID: HASTP05-180509-1140
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 11:40
Date Received: 05/09/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC
Barium, TCLP	0.118	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC
Lead, TCLP	0.028	J	mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:26	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:27	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-06
Client ID: HASTP07-180509-1155
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 11:55
Date Received: 05/09/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.023	J	mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC
Barium, TCLP	0.132	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC
Lead, TCLP	1.24		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:28	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:31	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-07
Client ID: HASTP08-180509-1215
Sample Location: ROME, NY
Date Collected: 05/09/18 12:15
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC
Barium, TCLP	0.174	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC
Lead, TCLP	0.091	J	mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:33	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:36	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-08
Client ID: HASTP09-180509-1230
Sample Location: ROME, NY
Date Collected: 05/09/18 12:30
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC
Barium, TCLP	0.657		mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:35	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:41	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-09
Client ID: HASTP10-180509-1245
Sample Location: ROME, NY
Date Collected: 05/09/18 12:45
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC
Barium, TCLP	0.281	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC
Lead, TCLP	0.031	J	mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:37	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:45	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-10
Client ID: HASTP12-180509-1255
Sample Location: ROME, NY
Date Collected: 05/09/18 12:55
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC
Barium, TCLP	0.221	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:39	EPA 7470A	1,7470A	EA
Selenium, TCLP	0.035	J	mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:50	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-11
Client ID: HASTP15-180509-1350
Sample Location: ROME, NY
Date Collected: 05/09/18 13:50
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.073	J	mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC
Barium, TCLP	0.348	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC
Lead, TCLP	0.036	J	mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:40	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:55	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-12
Client ID: HASTP16-180509-1335
Sample Location: ROME, NY
Date Collected: 05/09/18 13:35
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC
Barium, TCLP	0.727		mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:42	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 09:59	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-13
Client ID: HASTP19-180509-1420
Sample Location: ROME, NY
Date Collected: 05/09/18 14:20
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC
Barium, TCLP	0.109	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:44	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 10:04	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-14
Client ID: HASTP20-180509-1445
Sample Location: ROME, NY
Date Collected: 05/09/18 14:45
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC
Barium, TCLP	0.219	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:46	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 10:09	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Lab Number: L1816866
Project Number: 127887-004
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-15
Client ID: 3188-180509-0001
Sample Location: ROME, NY
Date Collected: 05/09/18 00:00
Date Received: 05/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC
Barium, TCLP	0.184	J	mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:48	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 10:22	EPA 3015	1,6010C	LC

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-15 Batch: WG1115228-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC
Barium, TCLP	ND		mg/l	0.500	0.021	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/12/18 11:00	05/14/18 08:12	1,6010C	LC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/10/18 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-15 Batch: WG1115499-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	05/14/18 11:03	05/14/18 19:11	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 05/10/18 20:43

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROME-CINDER ASH

Project Number: 127887-004

Lab Number: L1816866

Report Date: 05/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-15 Batch: WG1115228-2								
Arsenic, TCLP	108		-		75-125	-		20
Barium, TCLP	100		-		75-125	-		20
Cadmium, TCLP	109		-		75-125	-		20
Chromium, TCLP	100		-		75-125	-		20
Lead, TCLP	103		-		75-125	-		20
Selenium, TCLP	108		-		75-125	-		20
Silver, TCLP	99		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-15 Batch: WG1115499-2								
Mercury, TCLP	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1115228-3 QC Sample: L1816866-01 Client ID: HASTP01-180509-1000												
Arsenic, TCLP	ND	1.2	1.19	99		-	-		75-125	-		20
Barium, TCLP	0.201J	20	18.5	92		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.512	100		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.83	92		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.90	96		-	-		75-125	-		20
Selenium, TCLP	0.036J	1.2	1.19	99		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.466	93		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1115499-3 QC Sample: L1816866-01 Client ID: HASTP01-180509-1000												
Mercury, TCLP	ND	0.025	0.0256	102		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1115228-4 QC Sample: L1816866-01 Client ID: HASTP01-180509-1000						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.201J	0.207J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	0.036J	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1115499-4 QC Sample: L1816866-01 Client ID: HASTP01-180509-1000						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-01
Client ID: HASTP01-180509-1000
Sample Location: ROME, NY

Date Collected: 05/09/18 10:00
Date Received: 05/09/18
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										
pH (H)	7.5		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-02
Client ID: HASTP02-180509-1030
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 10:30
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.8		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-03
Client ID: HASTP03-180509-1050
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 10:50
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	6.9		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-04
Client ID: HASTP04-180509-1120
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 11:20
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	4.9		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-05
Client ID: HASTP05-180509-1140
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 11:40
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.2		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-06
Client ID: HASTP07-180509-1155
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 11:55
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	6.0		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-07
Client ID: HASTP08-180509-1215
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 12:15
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	5.6		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-08
Client ID: HASTP09-180509-1230
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 12:30
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.3		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-09
Client ID: HASTP10-180509-1245
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 12:45
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.0		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-10
Client ID: HASTP12-180509-1255
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 12:55
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.6		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-11
Client ID: HASTP15-180509-1350
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 13:50
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	6.6		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-12
Client ID: HASTP16-180509-1335
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 13:35
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.3		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-13
Client ID: HASTP19-180509-1420
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 14:20
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	6.6		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-14
Client ID: HASTP20-180509-1445
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 14:45
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.3		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Project Name: ROME-CINDER ASH
Project Number: 127887-004
Lab Number: L1816866
Report Date: 05/15/18

SAMPLE RESULTS

Lab ID: L1816866-15
Client ID: 3188-180509-0001
Sample Location: ROME, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/18 00:00
Date Received: 05/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.3		SU	-	NA	1	-	05/10/18 18:22	1,9045D	AS

Lab Control Sample Analysis

Batch Quality Control

Project Name: ROME-CINDER ASH

Project Number: 127887-004

Lab Number: L1816866

Report Date: 05/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-15 Batch: WG1114670-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-15 QC Batch ID: WG1114670-2 QC Sample: L1816680-02 Client ID: DUP Sample						
pH	9.8	9.7	SU	1		5

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

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(*)
L1816866-01A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-01B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-01X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-02A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-02B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-02X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-03A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-03B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-03X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-04A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-04B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-04X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-05A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-05B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)

*Values in parentheses indicate holding time in days

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1816866-05X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-06A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-06B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-06X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-07A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-07B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-07X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-07X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-08A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-08B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-08X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-09A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-09B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-09X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-09X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-10A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-10B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-10X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-10X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-11A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-11B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name: ROME-CINDER ASH
Project Number: 127887-004

Lab Number: L1816866
Report Date: 05/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1816866-11X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-11X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-12A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-12B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-12X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-12X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-13A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-13B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-13X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-13X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-14A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-14B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-14X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-14X9	Tumble Vessel	A	NA		4.6	Y	Absent		-
L1816866-15A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PH-9045(1)
L1816866-15B	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		ARCHIVE()
L1816866-15X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1816866-15X9	Tumble Vessel	A	NA		4.6	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	ROME-CINDER ASH	**Lab Number:**	L1816866
Project Number:	127887-004	**Report Date:**	05/15/18

GLOSSARY

Acronyms

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).
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.
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.
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.
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.
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.

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.

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.

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 Condensation Product".
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

Report Format: DU Report with 'J' Qualifiers

Project Name:	ROME-CINDER ASH	**Lab Number:**	L1816866
Project Number:	127887-004	**Report Date:**	05/15/18

Data Qualifiers

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.

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.

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

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.

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).

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:	ROME-CINDER ASH	**Lab Number:**	L1816866
Project Number:	127887-004	**Report Date:**	05/15/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; 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**
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**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193

Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

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

Page 1 of 2

Date Rec'd in Lab: 5/10/18

ALPHA Job #: L1816866

Project Information
Project Name: Rome - Cinder Ash
Project Location: Rome NY
Project #: 127887-004
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Client Information
Client: Samuel Burke (H+A)
Address: 200 Town Centre Dr Ste 2, Rochester, NY 14623
Phone: 585-321-4263
Fax:
Email: sburke@haleyaldrich.com

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

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

Billing Information
☐ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP Metals	Corrosivity	Sample Specific Comments	Total Bottles
16866.01	HASTP01-180509-1000	5/9/18	1000	SO	SBB	X	X		
.02	HASTP02-180509-1030	↓	1030	↓	↓	X	X		
.03	HASTP03-180509-1050		1050			X	X		
.04	HASTP04-180509-1120		1120			X	X		
.05	HASTP05-180509-1140		1140			X	X		
.06	HASTP07-180509-1155		1155			X	X		
.07	HASTP08-180509-1215		1215			X	X		
.08	HASTP09-180509-1230		1230			X	X		
.09	HASTP10-180509-1245		1245			X	X		
.10	HASTP12-180509-1255		1255			X	X		

	TCLP Metals	Corrosivity
Container Type	A	P
Preservative	A	A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/9/18 1540	Alpha Syracuse Center	5/9/18 19:20
[signature]	5/9/18	[signature] AAL	5/10/18 00:50

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

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

Page 2 of 2

Date Rec'd in Lab: 5/10/18

ALPHA Job #: L1816866

Project Information

Project Name: Rome Cinder Ash
Project Location: Rome, NY
Project # 127887-004
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Client Information

Client: Samuel Burke (H+A)
Address: 200 Town Centre Dr, Ste 2
Rochester NY 14623
Phone: 585-321-4263
Fax:
Email: sburke@haleyaldrich.com

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP Metals	Corrosivity	Sample Specific Comments	Total Bottles
16866-11	HASTP15-180509-1350	5/9/18	1350	SO	SBB	X	X		
-12	HASTP16-180509-1335	↓	1335	↓	↓	X	X		
-13	HASTP19-180509-1420	↓	1420	↓	↓	X	X		
-14	HASTP20-180509-1445	↓	1445	↓	↓	X	X		
-15	3188-180509-0001	↓		↓	↓	X	X		

	TCLP Metals	Corrosivity
Container Type	A	P
Preservative	A	A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Sam Burke	5/9/18 1540	~~Alpha Syracuse Center~~ Bob James AAL	5/9/18 19:45
Bob James	5/9/18	[illegible]	5/10/18 00:50

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

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

ALPHA

CHAIN OF CUSTODY

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Date Rec'd in Lab 5/10/18

ALPHA Job # L1816866

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Helmer, PA 19043

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information
Project Name: Rome Cinder Ash
Project Location: Rome, NY
Project #: 127887-004
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

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

Deliverables
☐ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

H&A Information
H&A Client: Samuel Burke
H&A Address: 200 Town Centre Dr, Ste 2
Rochester, NY 14623
H&A Phone: 585-321-4263
H&A Fax:
H&A Email: sburke@haleyaldrich.com

Regulatory Requirements (Program/Criteria)
TCLP
Note: Select State from menu & identify criteria.

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
This COC is to be appended (and serve as the Work Authorization for the sample analysis described herein) to the COC submitted for the Rome Cinder Ash project 5/9/2018.

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCLP Metals	Corrosivity							Sample Specific Comments	
16866 - 01	HASTP01-180508-1000	5/9/2018	1000	SO	SBB		X	X								2
-02	HASTP02-180509-1030	5/9/2018	1030	SO	SBB		X	X								2
-03	HASTP03-180509-1050	5/9/2018	1050	SO	SBB		X	X								2
-04	HASTP04-180509-1120	5/9/2018	1120	SO	SBB		X	X								2
-05	HASTP05-180509-1140	5/9/2018	1140	SO	SBB		X	X								2
-06	HASTP07-180509-1155	5/9/2018	1155	SO	SBB		X	X								2
-07	HASTP08-180509-1215	5/9/2018	1215	SO	SBB		X	X								2
-08	HASTP09-180509-1230	5/9/2018	1230	SO	SBB		X	X								2
-09	HASTP10-180509-1245	5/9/2018	1245	SO	SBB		X	X								2
-10	HASTP12-180509-1255	5/9/2018	1255	SO	SBB		X	X								2

Container Type: A P
Preservative: A A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430 Albany, NY 12205 Tonawanda, NY 14150 Holmes, PA 19043
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288

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Date Rec'd in Lab 5/10/18

ALPHA Job # L1811866

Project Information

Project Name: Rome Cinder Ash
Project Location: Rome, NY
Project # 127887-004
(Use Project name as Project #)
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client info
PO #

Regulatory Requirements (Program/Criteria)

TCLP

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

H&A Information

H&A Client: Samuel Burke
H&A Address: 200 Town Centre Dr, Ste 2
Rochester, NY 14623
H&A Phone: 585-321-4263
H&A Fax:
H&A Email: sburke@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

This COC is to be appended (and serve as the Work Authorization for the sample analysis desribed herein) to the COC submitted for the Rome Cinder Ash project 5/9/2016.

Please specify Metals or TAL.

ANALYSIS

Sample Filtration

☐ Done
☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCLP Metals	Corrosivity						Sample Specific Comments	Total # Bottles
16866 - 11	HASTP15-180509-1350	5/9/2018	1350	SO	SBB		X	X							2
-12	HASTP16-180509-1335	5/9/2018	1335	SO	SBB		X	X							2
-13	HASTP19-180509-1420	5/9/2018	1420	SO	SBB		X	X							2
-14	HASTP20-180509-1445	5/9/2018	1445	SO	SBB		X	X							2
-15	3188-180509-0001	5/9/2018		SO	SBB		X	X							2

Container Type: A P
Preservative: A A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-16-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)