

**REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION REPORT
FOR THE
JB PAPER CO. SITE
PITTSFIELD, BERKSHIRE COUNTY, MASSACHUSETTS
30-31 MARCH 2022 AND 21-22 JUNE 2022**

Prepared For:

U.S. Environmental Protection Agency
Region I
Superfund and Emergency Management Division
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. 68HE0120D0001

TASK ORDER NO. 68HE0120F0027

TO/AD NO.: TOFP-01-22-02-0001

TASK NO.: 0129

DC NO.: R-50443

Submitted By:

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Region I
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TABLE OF CONTENTS

- I. Preliminary Assessment/Site Investigation Forms
- II. Narrative Chronology
- III. Appendices
 - Appendix A - Figures
 - Appendix B - Tables
 - Appendix C - Photodocumentation Log
 - Appendix D - Analytical Data and Chain-of-Custody

I. Preliminary Assessment/Site Investigation Forms

REMOVAL PRELIMINARY ASSESSMENT

Site Access

Authorizing Person: Gerald Binder
Date: 11 February 2022 **Obtained** **Verbal**
Telephone: (973) 200-0063 **Not Obtained** **Written**

Historical Preservation

Site is Historically Significant or Eligible for Historic Preservation

Contacts Identified

1) State Historical Preservation Officer (SHPO)

Name: Ms. Brona Simon **Telephone:** 617-727-8470

2) Tribal Historical Preservation Officer (THPO)

Name: Stockbridge-Munsee Band of Mohican Indians **Telephone:** 413-844-6029

Comments:

Physical Site Characterization

Background Information:

The JB Paper Co. (JB Paper) Site (the Site) is located at 70 Elmvale Place, Pittsfield, Berkshire County, Massachusetts (MA). The property is 4.2 acres and is identified on the Town of Pittsfield Geographic Information System (GIS) and Property Database as Property ID G120002002. The property is a vacant lot containing a small pond and the remains of the former JB Paper building (constructed in 1916), which burned down in 2016. The site is bordered to the north by Onota Brook, Elmvale Place, public housing (Dower Square), and commercial/industrial properties; to the east by Onota Brook, and commercial/industrial and residential properties; to the south by wooded areas; and to the west by Pittsfield Cemetery.

Prior to being used by the J.B. Paper Company (JB Paper) as a wholesaler distribution warehouse for 42 years, the Site had a long history of textile manufacturing. In 1843, S.N. & C. Russell Manufacturing Company began its textile operations at the property and then ceased operations in 1930. In 1932, it re-opened for a short while. Although it is clear the Site was owned by Russell Manufacturing, the company operated multiple mills and it is unknown how long its operations were conducted at the property during the company's existence. In 1916 and 1920, two parcels were sold to the Kinney Worsted Yarn Company. Then in 1932, Site ownership transferred to Elmvale Dye Works, and textile operations continued at the Site until Elmvale Dye Works and Elmvale Worsted Company ceased Pittsfield operations in February 1959. Textile Properties Trust took ownership of the Site on 30 December 1959 until 29 September 1967, during which time it is unknown what, if any, operations occurred at the property.

REMOVAL PRELIMINARY ASSESSMENT

Binder Realty Trust purchased the Site in September 1967, and Joseph Binder relocated his business, J.B. Paper Company, Inc. (JB Paper), to the locale. (JB Paper Company had been incorporated in September 1933, and had operated at another location in Pittsfield from 1933 until 1967 before moving to the Elmvale Place property.) The property remained in the Binder family and is now held by the Gerald Binder Revocable Trust. The J.B. Paper Company, operated by the Binder family, was a wholesale distributor of paper products, sundries, cleaning supplies, toys, toiletries, etc., until 2009, after which the buildings were vacant. JB Paper Company was a warehouse for wholesale distribution and did not conduct textile operations on the property. The dissolution date of the company was 18 June 2012.

On the night of 29 August 2016, a three-alarm fire broke out at the abandoned warehouse, which had been abandoned since 2009. Shortly after the fire, Pittsfield health officials issued a “clean and lean” on the property, which allowed them to move forward with knocking down some of the walls that hadn’t fallen during the fire. They then set up a fence around the site to prevent illegal dumping or access to the site.

A few months after the fire, in 2016, the City of Pittsfield retained ATC Group Services, LLC (ATC) to conduct a hazardous materials assessment of the property. ATC determined that suspect asbestos-containing materials (ACM) were present in the debris piles located on the site.

During the hazardous materials assessment, ATC found several buried 55-gallon drums and 5-gallon buckets (buried in debris, possibly empty); and potential ACM, including roofing materials (such as shingles, tar paper, roofing tar/debris), window glazing, and insulation pipe wrap. Window glazing was sampled and found to contain trace ACM. Roofing material was found to be non-ACM. Pipe insulation could not be accessed safely and was presumed to contain ACM.

As part of the assessment, ATC conducted an environmental review at Massachusetts Department of Environmental Protection (MassDEP). According to file information, response actions were conducted at the site from 1994 to 1996 by Environmental Compliance Services of Agawam Massachusetts (ECS) on behalf of J.B. Paper Company. During the removal of a #4 fuel oil underground storage tank (UST), polychlorinated biphenyls (PCBs) were encountered in a stockpile at concentrations up to 16 parts per million (ppm). The source of the PCBs was not identified, but file information indicated that they may have been present due to the long history of industrial usage at the property since the 1800s. A Class B-1 Response Action Outcome (RAO) Statement was submitted for the release of PCBs. Excavation of #4 fuel oil-contaminated soil was conducted under Release Tracking Number (RTN) 1-00037, and an RAO Statement was submitted.

In September 2021, MassDEP collected a sample of pipe insulation at the site, and it was found to contain 30% chrysotile. On 23 December 2021, MassDEP requested EPA assistance for the site.

Description of Substances Possibly Present, Known or Alleged: Metals, PCBs, and Asbestos.

REMOVAL PRELIMINARY ASSESSMENT

Existing Analytical Data

Real-Time Monitoring Data:

Sampling Data: MassDEP collected a sample of pipe insulation at the site in September 2021; this sample was found to contain 30% chrysotile asbestos.

Potential Threat

Description of potential hazards to environment and/or population-identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.
- vi. Threat of fire or explosion.
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.
- viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Prior Response Activities

PRP **STATE** **FEDERAL** **OTHER**

Brief Description:

Response actions were conducted at the site from 1994 to 1996 by ECS, on behalf of JB Paper. During the removal of a #4 fuel oil UST, PCBs were encountered in a stockpile at concentrations up to 16 parts per million (ppm). The source of the PCBs was not identified, but the ECS report indicated that they may be present due to the long history of industrial usage at the property since the 1800s. A Class B-1 Response Action Outcome Statement was submitted for the release of PCBs. Excavation of #4 fuel oil contaminated soil was conducted under RTN 1-00037 and a Response Action Outcome Statement was submitted.

REMOVAL PRELIMINARY ASSESSMENT

In 2016, ATC conducted a hazardous materials assessment on behalf of the city of Pittsfield. During the assessment, ATC found several buried 55-gallon drums and 5-gallon buckets (buried in debris, possibly empty); and potential ACM including roofing materials (such as shingles, tar paper, roofing tar/debris), window glazing, and insulation pipe wrap. Window glazing was sampled and found to contain trace ACM. Roofing material was found to be non-ACM. Pipe insulation could not be accessed safely, but was presumed to contain ACM. MassDEP collected a sample of the pipe insulation at the site in September 2021, which was found to contain 30% chrysotile.

Priority for Site Investigation

(X) High	() Medium	Low ()	None ()
Comments:			

Report Generation

Originator: Tyler Evans	Date: 28 July 2022
Affiliation: Weston Solutions, Inc. (START)	Telephone: (978) 621-1208
Contract No.: 68HE0120D0001	Contract Name: START V
Task Order No.: 68HE0120F0027	Task Order Name: FP-CRT
AD No.: TOFP-01- 22-02-0001	Task No.: 0129



**EPA REGION I
REMOVAL SITE INVESTIGATION**

Inspection Information

Site Name: JB Paper Co. Site **Address:** 70 Elmvale Place
Town: Pittsfield **County:** Berkshire County **State:** Massachusetts

Date of Inspection: 30-31 March 2022 (Site Reconnaissance/Sampling, Round 1)
Time of Inspection: 1100 hours
Weather Conditions: 56 °Fahrenheit, Mostly Cloudy

Date of Inspection: 21-22 June 2022 (Sampling, Round 2)
Time of Inspection: 1100 hours
Weather Conditions: 85 °Fahrenheit, Partly Cloudy

Site Status at Time of Inspection: () ACTIVE (X) INACTIVE

Comments:

Agencies/Personnel Performing Inspection

	<u>Names</u>	<u>Program</u>
(X) EPA:	Ally Bowden Allen Jarrell	U.S. Environmental Protection Agency (EPA) Region I, Emergency Planning and Response Branch (EPRB), On-Scene Coordinator (OSC)
	Scott Clifford	EPA Laboratory Services and Applied Sciences Division (LSASD), Chemist
(X) EPA Contractor:	Jacques Elias Mark Hall Tyler Evans Liam Trainor John Burton John Kelly	Weston Solutions, Inc. (WESTON), Superfund Technical Assessment and Response Team (START)
(X) State:	Joanne Flescher Nick Anderson	Massachusetts Department of Environmental Protection (MassDEP)

Current Owner Based on Field Interview:

REMOVAL SITE INVESTIGATION

Physical Site Characteristics

<u>Parameter</u>	<u>Quantities/Extent</u>
<input type="checkbox"/> Cylinders:	
<input type="checkbox"/> Drums:	
<input type="checkbox"/> Lagoons:	
<input type="checkbox"/> Tanks:	<input type="checkbox"/> Above: <input type="checkbox"/> Below:
<input checked="" type="checkbox"/> Asbestos:	There is a covered pile of suspected asbestos-containing material (ACM) on site.
<input checked="" type="checkbox"/> Piles:	The site contains various piles of burned building debris throughout the property.
<input type="checkbox"/> Stained Soil:	
<input type="checkbox"/> Sheens:	
<input type="checkbox"/> Stressed Vegetation:	
<input type="checkbox"/> Landfill:	
<input checked="" type="checkbox"/> Population in Vicinity:	The site is in a mixed residential and commercial area.
<input type="checkbox"/> Wells:	<input type="checkbox"/> Drinking: <input type="checkbox"/> Monitoring:
<input type="checkbox"/> Other:	

Physical Site Observations

Comments: The JB Paper Co. (JB Paper) Site (the Site) is located at 70 Elmvale Place, Pittsfield, Berkshire County, Massachusetts (MA). The property is 4.2 acres and is identified on the Town of Pittsfield Geographic Information System (GIS) and Property Database as Property ID G120002002. The property is a vacant lot containing a small pond and the remains of the former JB Paper building, which burned down in 2016. The site is bordered to the north by Onota Brook, Elmvale Place, public housing (Dower Square), and commercial/industrial properties; to the east by Onota Brook and commercial/industrial and residential properties; to the south by wooded areas; and to the west by Pittsfield Cemetery.

In 2016 ATC Group Services (ATC) conducted a hazardous materials assessment on behalf of the city of Pittsfield. During the assessment, ATC found several buried 55-gallon drums and 5-gallon buckets (buried in debris, possibly empty); and potential asbestos-containing material (ACM) including roofing materials (such as shingles, tar paper, roofing tar/debris), window glazing, and insulation pipe wrap. Window glazing was sampled and found to contain trace ACM. Roofing material was found to be non-ACM. Pipe insulation could not be accessed safely and was presumed to contain ACM. MassDEP collected a sample of the pipe insulation at the site in September 2021, and it was found to contain 30% chrysotile.

REMOVAL SITE INVESTIGATION

Field Sampling and Analysis

Matrix	Field Instrumentation Readings				
	CGI/O₂ (%)	RAD (μR/hr)	PID (ppm)	FID (ppm)	Other
Background:	0.0%/20.9%	10-15 μR/hr	0.0 ppm		
Air:	0.0%/20.9%	10-15 μR/hr	0.0 ppm		
Soil:	0.0%/20.9%	10-15 μR/hr	0.0 ppm		
Surface Water:					
Tanks:					
Drums:					
Vats:					
Lagoons:					
Spillage:					
Run Off:					
Piles:					
Sediments:					
Groundwater:					
Other:					

CGI/O₂ (%) = Combustible Gas Indicator/Oxygen (percentage)
 PID = PhotoIonization Detector (parts per million)

RAD (μR/hr) = Radiation (microRoentgens per hour)
 FID (ppm) = Flame Ionization Detector (parts per million)

Field Quality Control Procedures

(X) SOP Followed

() Deviation from SOP

Comments: START followed the protocol outlined in the *Sampling and Analysis Plan for the JB Paper Co. Site, Pittsfield, Berkshire County, Massachusetts.*

Description of Sampling Conducted

On 30 and 31 March 2022, START personnel established a grid over accessible portions of the Site. START personnel collected a total of eight potential ACM samples for asbestos analysis from eight locations and a total of 10 soil samples [including one duplicate for Resource Conservation and Recovery Act 8 (RCRA 8) metals analysis]. START also collected 20 samples for polychlorinated biphenyl (PCB) analysis. The samples were field screened for RCRA 8 metals and PCBs by EPA Chemist Clifford in the EPA Mobile Laboratory. Samples were also delivered for bulk asbestos and PCB and RCRA 8 confirmatory analyses at EPA LSASD New England Regional Laboratory (NERL) located in North Chelmsford, MA.

On 21 and 22 June 2022, START personnel established a grid over the previous sampling grid on the accessible portions of the Site. START personnel collected a total of 11 potential ACM samples (including one duplicate) from 10 locations for asbestos analysis, and a total of 10 soil samples (including one duplicate) for RCRA 8 metals analysis. The samples were field screened for RCRA 8 metals by EPA Chemist Clifford in the EPA Mobile Laboratory. Samples were also delivered for bulk asbestos and RCRA 8 confirmatory analysis at EPA LSASD NERL located in North Chelmsford, MA.

REMOVAL SITE INVESTIGATION

- iii. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- iv. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.
- v. The availability of other appropriate federal or state response mechanisms to respond to the release.

Report Generation

Originator: Tyler Evans	Date: 28 June 2022
Affiliation: Weston Solutions, Inc. (START)	Telephone: (978) 621-1208
Contract No. 68HE0120D0001	Contract Name: START V
Task Order No. 68HE0120F0027	Task Order Name: FP-CRT
AD No.: TOFP-01- 22-02-0001	Task No.: 0129

II. Narrative Chronology

Narrative Chronology

Site Description

The JB Paper Co. (JB Paper) Site (the Site) is located at 70 Elmvale Place, Pittsfield, Berkshire County, Massachusetts (MA) (see Appendix A, Figure 1) [1]. The property is 4.2 acres and is identified on the Town of Pittsfield Geographic Information System (GIS) and Property Database as Property ID G120002002. The property is a vacant lot containing a small pond and the remains of the former JB Paper building (constructed in 1916), which burned down in 2016. The site is bordered to the north by Onota Brook, Elmvale Place, public housing (Dower Square), and commercial/industrial properties; to the east by Onota Brook, and commercial/industrial and residential properties; to the south by wooded areas; and to the west by Pittsfield Cemetery (see Appendix A, Figure 2) [2].

Site Background

Prior to being used by the J.B. Paper Company (JB Paper) as a wholesaler distribution warehouse for 42 years, the Site had a long history of textile manufacturing. In 1843, S.N. & C. Russell Manufacturing Company began its textile operations at the property and then ceased operations in 1930. In 1932, it re-opened for a short while. Although it is clear the Site was owned by Russell Manufacturing, the company operated multiple mills and it is unknown how long its operations were conducted at the property during the company's existence. In 1916 and 1920, two parcels were sold to the Kinney Worsted Yarn Company. Then in 1932, Site ownership transferred to Elmvale Dye Works, and textile operations continued at the Site until Elmvale Dye Works and Elmvale Worsted Company ceased Pittsfield operations in February 1959. Textile Properties Trust took ownership of the Site on 30 December 1959 until 29 September 1967, during which time it is unknown what, if any, operations occurred at the property.

Binder Realty Trust purchased the Site in September 1967, and Joseph Binder relocated his business, J.B. Paper Company, Inc. (JB Paper), to the locale. (JB Paper Company had been incorporated in September 1933, and had operated at another location in Pittsfield from 1933 until 1967 before moving to the Elmvale Place property.) The property remained in the Binder family and is now held by the Gerald Binder Revocable Trust. The J.B. Paper Company, operated by the Binder family, was a wholesale distributor of paper products, sundries, cleaning supplies, toys, toiletries, etc., until 2009, after which the buildings were vacant. JB Paper Company was a warehouse for wholesale distribution and did not conduct textile operations on the property. The dissolution date of the company was 18 June 2012.

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A few months after the fire, in 2016, the City of Pittsfield retained ATC Group Services, LLC (ATC) to conduct a hazardous materials assessment of the property. ATC determined that suspect asbestos-containing materials (ACM) were present in the debris piles located on the site.

During the hazardous materials assessment, ATC found several buried 55-gallon drums and 5-gallon buckets (buried in debris, possibly empty); and potential ACM, including roofing materials (such as shingles, tar paper, roofing tar/debris), window glazing, and insulation pipe wrap. Window glazing was sampled and found to contain trace ACM. Roofing material was found to be non-ACM. Pipe insulation could not be accessed safely and was presumed to contain ACM [3].

As part of the assessment, ATC conducted an environmental review at Massachusetts Department of Environmental Protection (MassDEP). According to file information, response actions were conducted at the site from 1994 to 1996 by Environmental Compliance Services of Agawam Massachusetts (ECS) on behalf of J.B. Paper Company. During the removal of a #4 fuel oil underground storage tank (UST), polychlorinated biphenyls (PCBs) were encountered in a stockpile at concentrations up to 16 parts per million (ppm). The source of the PCBs was not identified, but file information indicated that they may have been present due to the long history of industrial usage at the property since the 1800s. A Class B-1 Response Action Outcome (RAO) Statement was submitted for the release of PCBs. Excavation of #4 fuel oil-contaminated soil was conducted under Release Tracking Number (RTN) 1-00037, and an RAO Statement was submitted [3].

In September 2021, MassDEP collected a sample of pipe insulation at the site, and it was found to contain 30% chrysotile. On 23 December 2021, MassDEP requested EPA assistance for the site.

Site/Sampling Activities

On 30 March 2022, EPA On-Scene Coordinators (OSCs) Allen Jarrell and Allyson Bowden, EPA Laboratory Services and Applied Sciences Division (LSASD) Chemist Scott Clifford, and Weston Solutions, Inc. (Weston) Superfund Technical Assessment and Response Team (START) members Jacques Elias, Liam Trainor, Mark Hall and Tyler Evans mobilized to the Site to conduct sampling activities. START member Elias conducted a safety and operations meeting, and on-site personnel reviewed and signed the site-specific health and safety plan (HASP), which was prepared as a separate document, entitled *Weston Solutions, Inc. Region I START Site Health and Safety Plan (HASP) for the JB Paper Co Site, 70 Elmvale Pl, Pittsfield, Massachusetts*, dated February 2022 [4].

Following the completion of the safety briefing, START member Evans prepared the Ludlum Model 19A gamma radiation meter and the RAE Systems, Inc. MultiRAE multigas meter with oxygen (O₂), carbon monoxide (CO), hydrogen sulfide (H₂S), lower explosive limit (LEL), and volatile organic compound (VOC) sensors [5, 6]. Readings on the two instruments were as follows: Ludlum Model 19A: 15 microRoentgens per hour (μR/hr); and MultiRAE: O₂ = 20.9%, CO = 0 ppm, H₂S = 0 ppm, LEL = 0%, and VOC = 0 ppm.

START and EPA conducted a brief site walk to identify the rubble/debris and soil piles to be sampled and conducted air monitoring with the multigas meter with photoionization detector (PID) and the Ludlum Model 19A gamma radiation meter. START then gathered sampling equipment and prepared for sampling activities.

START personnel initiated sampling activities. Sampling activities were performed in accordance with the Site Sampling and Analysis Plan (SAP), which was prepared as a separate document,

entitled *Sampling and Analysis Plan for the JB Paper Co Site, 70 Elmvale Pl, Pittsfield, Berkshire County, Massachusetts* [7].

START members Elias and Evans conducted gridding activities on the northern portion of the property, measuring a 20-ft by 20-ft grid on the property. START members Elias, Evans, Trainor, and Hall collected 35 surface soil samples. The soil samples were collected from 0-3 inches at each location [8]. In addition, START members Elias and Evans collected eight bulk asbestos samples from the site. The bulk asbestos samples were collected from random locations on site and from material suspected to be asbestos [9]. See Appendix A, Figure 3 for sample locations.

On 31 March 2022, EPA OSCs Jarrell and Bowden and START members Elias, Trainor, and Evans mobilized to the site. START member Elias conducted a safety and operations meeting. START personnel conducted sample management activities, began preparation of confirmation samples, and collected Global Positioning System (GPS) coordinates of the surface soil sample locations [10]. START members containerized the soil samples for confirmatory metals and PCB analyses in 4-ounce amber jars and the bulk asbestos samples into ziplock bags. START member Evans completed the Scribe chain-of-custody and the labels for the sample containers. START personnel also conducted photodocumentation activities (see Appendix C, Photodocumentation Log).

A total of 37 soil samples (including two field duplicates) were collected from approximately 35 locations, and eight bulk asbestos samples were collected. All the soil samples were screened for metals and PCBs by the EPA Mobile Laboratory. A subset of 31 samples (including two field duplicates) were submitted to EPA Office of Environmental Measurement and Evaluation (OEME)/New England Regional Laboratory (NERL) for confirmatory RCRA 8 metals and PCB analyses. The bulk asbestos samples were submitted for asbestos analysis. START recorded sample locations using the Arrow GPS [10].

On 21 June 2022, EPA OSC Bowden; MassDEP Environmental Analyst Nick Anderson; EPA Laboratory Services and Applied Sciences Division (LSASD) Chemist Clifford; and START members Evans, John Kelly, and John Burton mobilized to the Site to conduct additional sampling activities. START member Evans conducted the tailgate safety meeting and discussed the slip, trip, and fall hazards and use of the buddy system. START reviewed and signed the site-specific HASP.

Following the completion of the safety briefing, START member Evans prepared the RAE Systems, Inc. MultiRAE multigas meter with O₂, CO, H₂S, LEL, and VOC sensors. Readings on the multigas meter were as follows: O₂ = 20.9%, CO = 0 ppm, H₂S = 0 ppm, LEL = 0%, and VOC = 0 ppm.

EPA OSC Bowden and START member Evans contacted Pittsfield Non-Emergency Services to contact homeless individuals who were living on the site. Pittsfield Police Department officers removed the homeless individuals from the site and discussed with EPA and START personnel that the homeless individuals would return to the property after site activities were concluded each day.

START personnel initiated sampling activities. EPA OSC Bowden, MassDEP Analyst Anderson, and START personnel conducted a site walk to collect additional bulk asbestos samples from the

property. START personnel collected 11 bulk asbestos samples (including one field duplicate). During the previous sampling event, a high mercury result was detected near the free-standing smokestack still on site. START members Evans, Burton, and Kelly conducted screening activities with Lumex RA-915+ and Jerome J505 mercury vapor analyzers (MVAs) to determine if mercury was present. Three surface soil samples (SS-40 through SS-42) were screened with the MVAs and field screened in the mobile laboratory. START members Burton and Kelly conducted gridding activities on the northern portion of the property, measuring a 10-ft by 10-ft grid over the 20-ft by 20-ft grid of the previous sampling event. START members Evans, Burton, and Kelly collected a total of 11 surface soil samples (including one field duplicate). The soil samples from each location were collected from 0-3 inches.

On 22 June 2022, EPA OSC Bowden, LSASD Chemist Clifford, and START members Evans, John Kelly and John Burton mobilized to the Site. START member Evans conducted a safety and operations meeting. Personnel then prepared sampling materials. START personnel collected a total of 44 surface soil samples (including one field duplicate). The surface soil samples were collected from 0-3 inches. Soil samples were screened on site for metals by the EPA Mobile Laboratory using an X-Ray Fluorescence (XRF) instrument. START personnel followed the sampling protocols outlined in the SAP [7].

START completed sampling activities, utilized a GPS unit to document surface soil sample locations, and photodocumented site conditions and sample locations (see Appendix C, Photodocumentation Log). START personnel returned to the START office to complete sample management and labeling activities. START containerized metals soil samples in 4-ounce amber glass jars and the bulk asbestos samples in ziplock bags. START member Evans completed the Scribe chain-of-custody and the labels for the sample containers.

A total of 53 soil samples were collected from 51 locations. All of the soil samples were screened for metals including mercury by the EPA Mobile Laboratory. A subset of 10 soil samples (including one field duplicate) were submitted to EPA LSASD/NERL for confirmatory metals analyses. In addition, a total of 11 ACM samples (including one field duplicate) were submitted for asbestos analysis.

Analytical Data Summaries

March 2022 Sampling

From 7-28 April 2022, START received the analytical results from LSASD Mobile laboratory and EPA LSASD for the sampling conducted on 30-31 March 2022 [11, 12, 13, and 14]. These data are summarized in Appendix B, Tables 1, 2 and 3 and are included in Appendix D.

Soil Samples

On 7 April 2022, START received the results of XRF metals and PCB analyses from the LSASD mobile laboratory and the asbestos analytical results from LSASD. A total of 37 samples, including two duplicates, were submitted for metals analysis. Arsenic exceeded its EPA Residential Removal Management Level (RML) in three samples: SS-22 [73 milligrams per kilogram (mg/kg)]; SS-27 (190 mg/kg); and SS-29 (Dup) (110 mg/kg). Additionally, lead exceeded its EPA Residential or Industrial RML in six samples: SS-18 (450 mg/kg); SS-22 (550 mg/kg); SS-27 (1,700 mg/kg); SS-

29 (1,200 mg/kg); SS-29 Dup (750 mg/kg); and SS-30 (730 mg/kg). In addition, no PCBs were detected above reporting limits in any of the samples. See Appendix A, Figures 3 and 4, and Appendix B, Table 1 [11, 12].

On 28 April 2022, START received the RCRA 8 metals analytical results from LSASD. One soil sample contained 290 mg/kg of antimony, which is above the EPA Residential RML. Five soil samples contained lead at concentrations greater than the EPA Residential or Industrial RML: SS-18 (1,400 mg/kg), SS-22 (3,700 mg/kg), SS-27 (1,800 mg/kg), SS-29 (1,100 mg/kg), and SS-30 (980 mg/kg). See Appendix A, Figures 3 and 4, and Appendix B, Table 2 [13].

Asbestos Samples

One bulk asbestos sample (ACM-08) contained 30% chrysotile; and none of the remaining bulk samples contained asbestos above detection limits. See Appendix A, Figure 4 and Appendix B, Table 3 [14].

June 2022 Sampling

Soil Samples

On 12 July 2022, START received the results of XRF metals analysis from the LSASD mobile laboratory. A total of 58 samples, including two duplicates, were submitted for metals analysis. Arsenic exceeded its EPA Residential or Industrial RML in 11 samples: SS-40 (76 mg/kg); SS-40 lab duplicate (390 mg/kg); SS-42 (120 mg/kg); SS-44 (97 mg/kg); SS-145 (75 mg/kg); SS-203 (140 mg/kg); SS-220D (380 mg/kg); SS-220D lab duplicate (310 mg/kg); SS-231 (89 mg/kg); SS-231 lab duplicate (170 mg/kg); and SS-234 (72 mg/kg). Additionally, lead exceeded the EPA Residential or Industrial RML in nine samples: SS-40 (2,300 mg/kg); SS-40 lab duplicate (4,100 mg/kg); SS-42 (2,800 mg/kg); SS-42 lab duplicate (1,500 mg/kg); SS-43 (410 mg/kg); SS-145 (400 mg/kg); SS-47 (400 mg/kg); SS-231 (600 mg/kg); and SS-231 lab duplicate (1,700 mg/kg) (see Appendix A, Figure 6A and Appendix B, Table 4) [15]. No mercury was detected in any of the soil samples above detection limits.

On 20 July 2022, START received the RCRA 8 metals analytical results from the LSASD. One soil sample (SS-220D) contained 330 mg/kg of arsenic, which is above the EPA Residential and Industrial RMLs for Residential Soil. Five soil samples contained lead at concentrations greater than the EPA Residential or Industrial RML for soil: SS-40 (12,000 mg/kg), SS-42 (2,600 mg/kg), SS-47 (1,300 mg/kg), SS-231 (1,200 mg/kg), and SS-241 (690 mg/kg). In addition, soil sample SS-40 contained 15,000 mg/kg of copper and 230,000 mg/kg of iron, and soil sample SS-47 contained 160,000 mg/kg of iron, which are above the EPA Residential RMLs for soil (see Appendix A, Figure 6B and Appendix B, Table 5) [16].

Asbestos Samples

None of the bulk asbestos samples (ACM-09 through ACM-18) contained asbestos above detection limits (see Appendix B, Table 6) [17].

REFERENCES

- [1] US. Geological Survey. 1983. 7.5-minute topographic map, Pittsfield, Massachusetts.
- [2] Esri, i-cubed, USDA FSA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGP. 2019. ArcGIS.com World Imagery Map. April.
- [3] ATC Group Services LLC (ATC). 6 December 2016. Hazardous Material Assessment, December 2016.
- [4] Weston Solutions, Inc. 23 July 2021. Health and Safety Plan for the JB Paper Co. Site, Pittsfield, Berkshire County, Massachusetts.
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- [12] U.S. Environmental Protection Agency. 7 April 2022. Office of Environmental Measurement & Evaluation (OEME). Laboratory Report. Project No. 22040002. JB Paper Co. Site, Pittsfield, Massachusetts – PCBs in Soil Field Method.
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- [14] U.S. Environmental Protection Agency. 7 April 2022. Office of Environmental Measurement & Evaluation (OEME). Laboratory Report. Project No. 22040001. JB Paper Co. Site, Pittsfield, Massachusetts – Bulk Asbestos Analysis by PLM.

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- [17] U.S. Environmental Protection Agency. 6 July 2022. Office of Environmental Measurement & Evaluation (OEME). Laboratory Report. Project No. 22060033. JB Paper Co. Site, Pittsfield, Massachusetts – Bulk Asbestos Analysis by PLM.

III. Appendices

Appendix A

Figures

- Figure 1 - Site Location Map
- Figure 2 - Site Diagram
- Figure 3 - Sampling Locations – March 2022
- Figure 4 - Field Screening Metals and ACM Results – March 2022
- Figure 5 - Sampling Locations – June 2022
- Figure 6A - Field Screening Metals Results – June 2022
- Figure 6B - Confirmatory Metal Results – June 2022

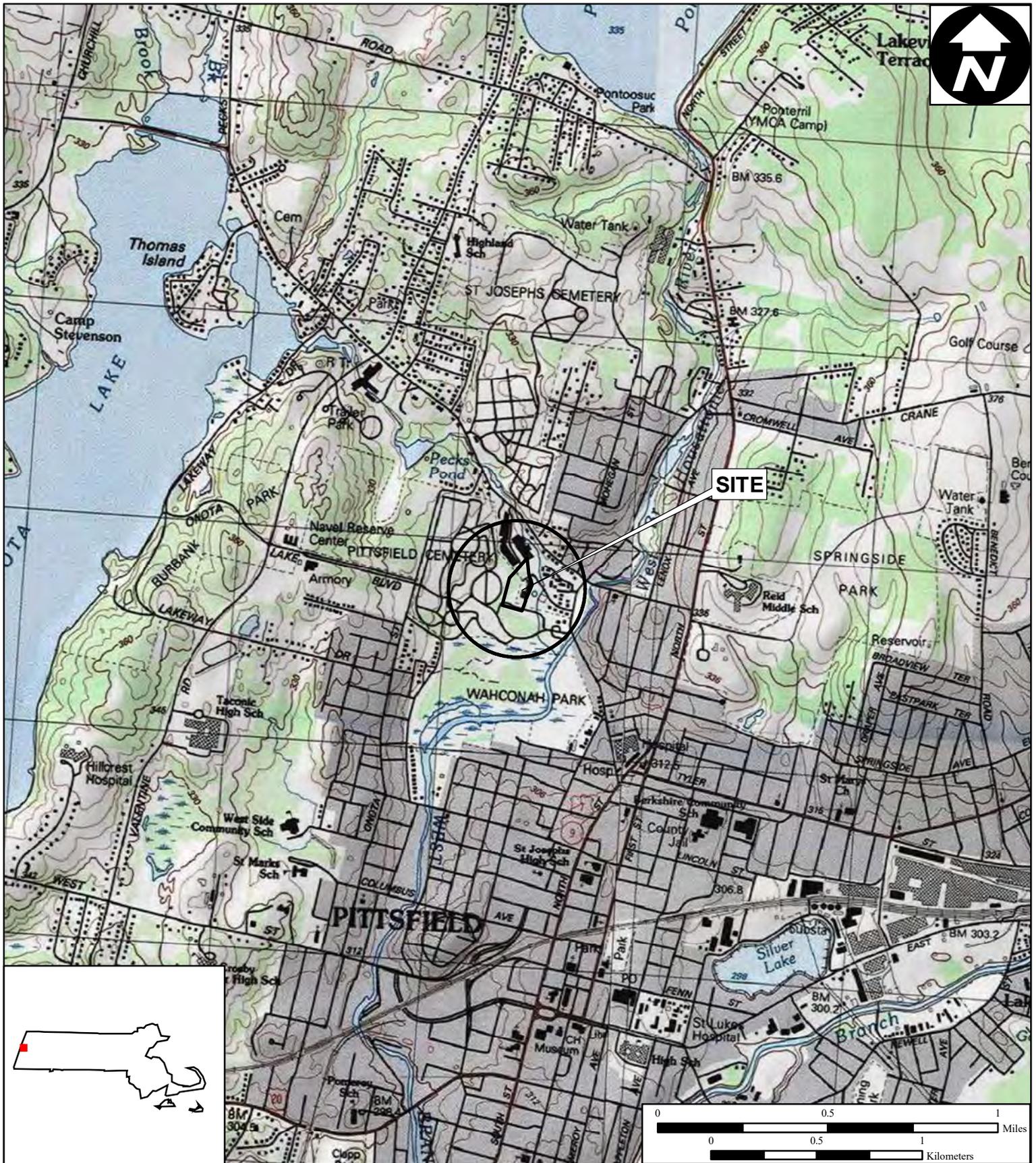


Figure 1

Site Location Map

**JB Paper Co. Site
70 Elmvale Place
Pittsfield, Massachusetts**

**EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001**

AD Number: TOFP-01-22-02-0001
 Created by: B. Mace
 Created on: 8 March 2021
 Modified by: B. Mace
 Modified on: 8 March 2021

Data Sources:

Topos: MicroPath/USGS/USA Topo Maps
 Quadrangle Name: Pittsfield West, MA
 All other data: START





Figure 2

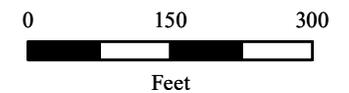
Site Diagram

**JB Paper Co. Site
70 Elmvale Place
Pittsfield, Massachusetts**

**EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001**
 AD Number: TOFP-01-22-02-0001
 Created by: B. Mace
 Created on: 8 March 2022
 Modified by: T. Evans
 Modified on: 29 July 2022

LEGEND

-  Parcel/Property Boundary
-  Site Boundary
-  Water Body



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS
 AEX, GeoEye, Getmapping, Aerogrid, IGP
 Topos: USA TopoMaps
 All other data: START



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

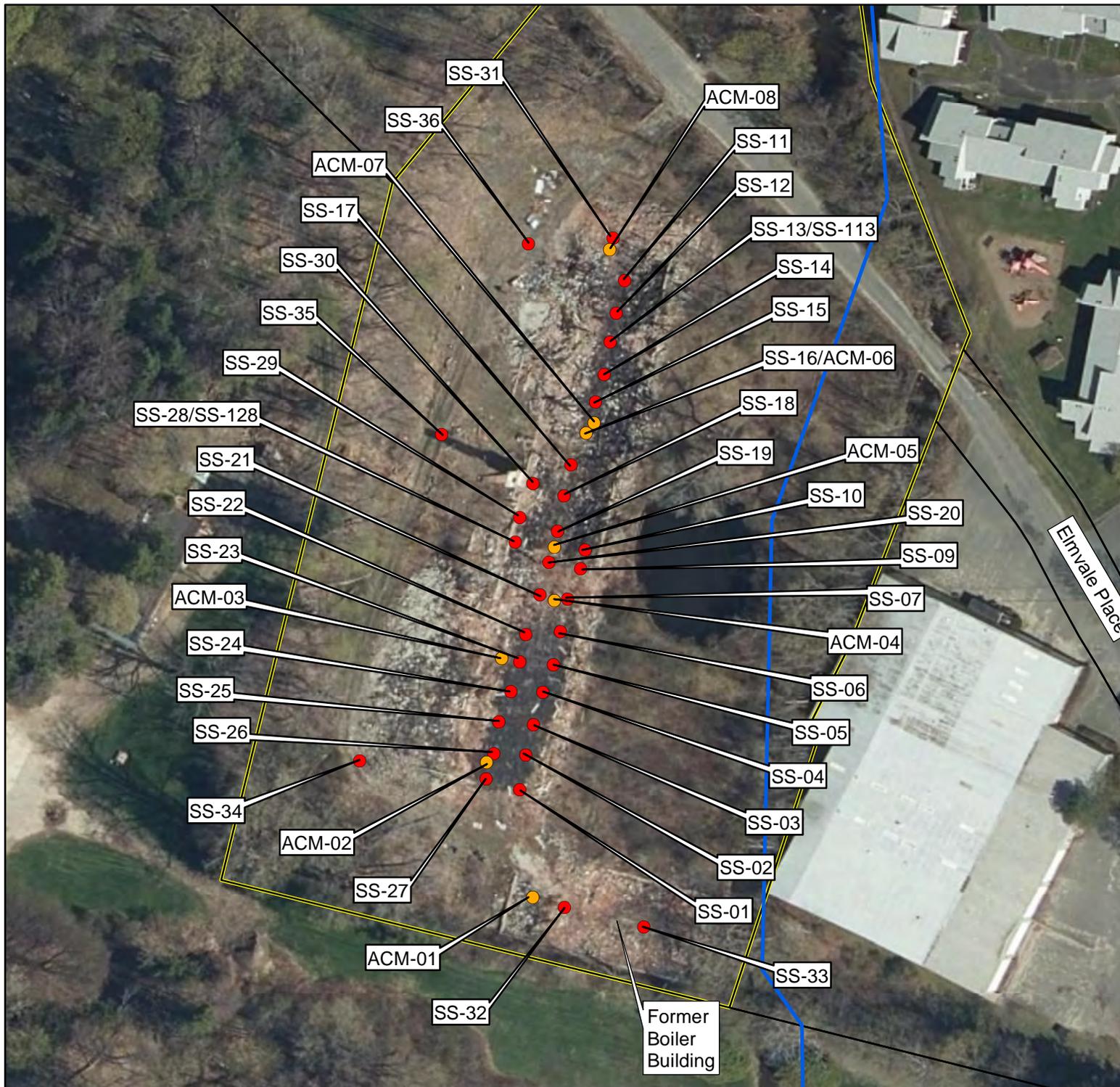


Figure 3

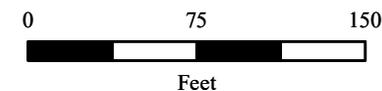
Sampling Locations - March 2022

**JB Paper Co. Site
70 Elmvale Place
Pittsfield, Massachusetts**

**EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001**
 AD Number: TOFP-01-22-02-0001
 Created by: B. Mace
 Created on: 8 March 2022
 Modified by: T. Evans
 Modified on: 29 July 2022

LEGEND

-  Parcel/Property Boundary
-  Site Boundary
-  Soil Sample Locations
-  ACM Sample Locations
-  Water Body



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS
 AEX, GeoEye, Getmapping, Aerogrid, IGP
 Topos: USA TopoMaps
 All other data: START



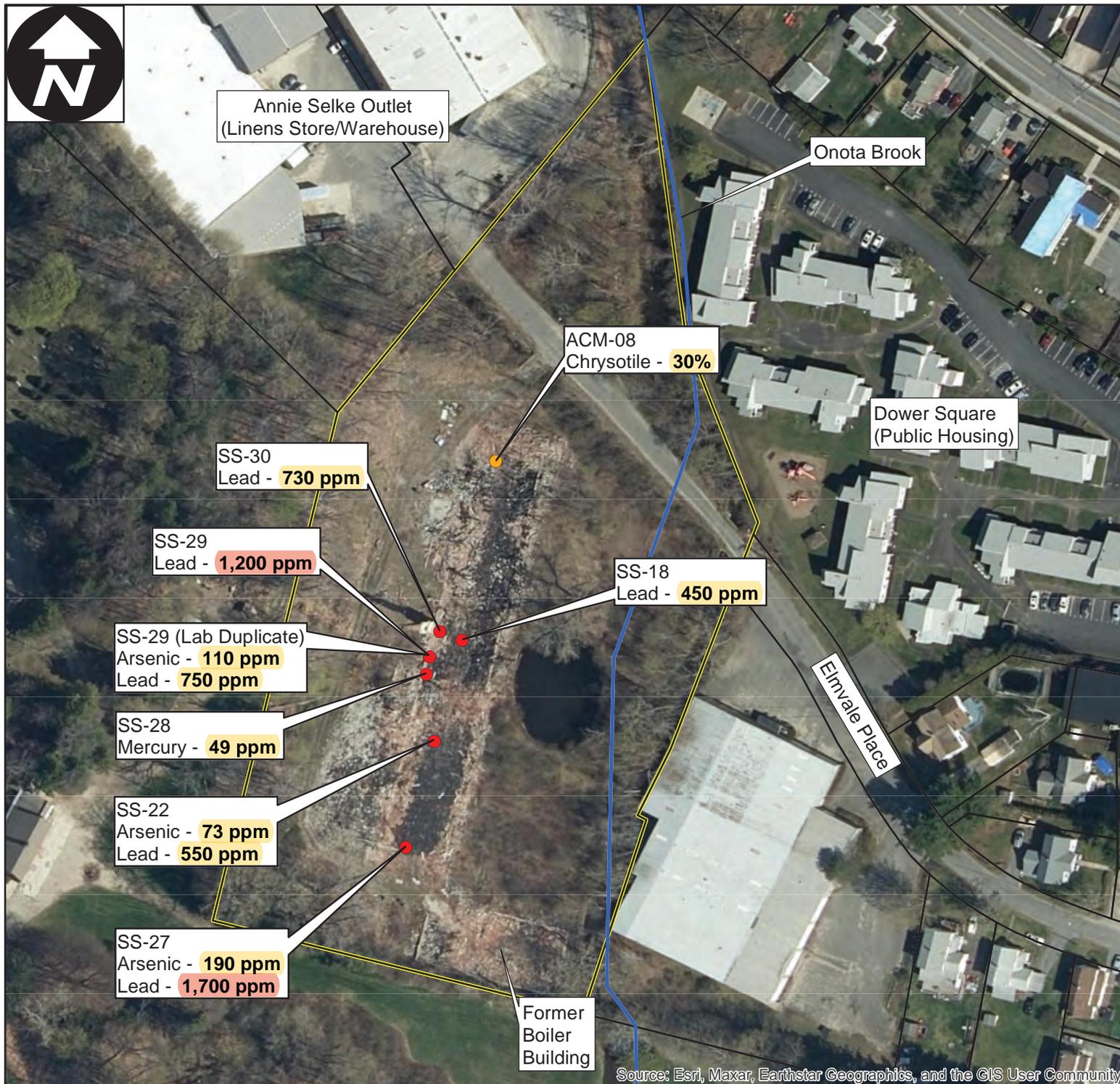


Figure 4
Field Screening Metals and
ACM Results - March 2022

JB Paper Co. Site
70 Elmvale Place
Pittsfield, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001
AD Number: TOFP-01-22-02-0001
Created by: B. Mace
Created on: 8 March 2022
Modified by: T. Evans
Modified on: 29 July 2022

LEGEND

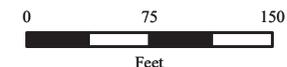
- Parcel/Property Boundary
- Site Boundary
- Water Body
- Elevated Metal Sample Locations
- Elevated ACM Sample Location

EPA RML-Res = US EPA Removal Management Level for Residential Soil

EPA RML-Ind = US EPA Removal Management Level for Industrial Soil

Values bolded and shaded in yellow indicated compounds exceeding the EPA Residential RML.

Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
 Topos: USA TopoMaps
 All other data: START



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

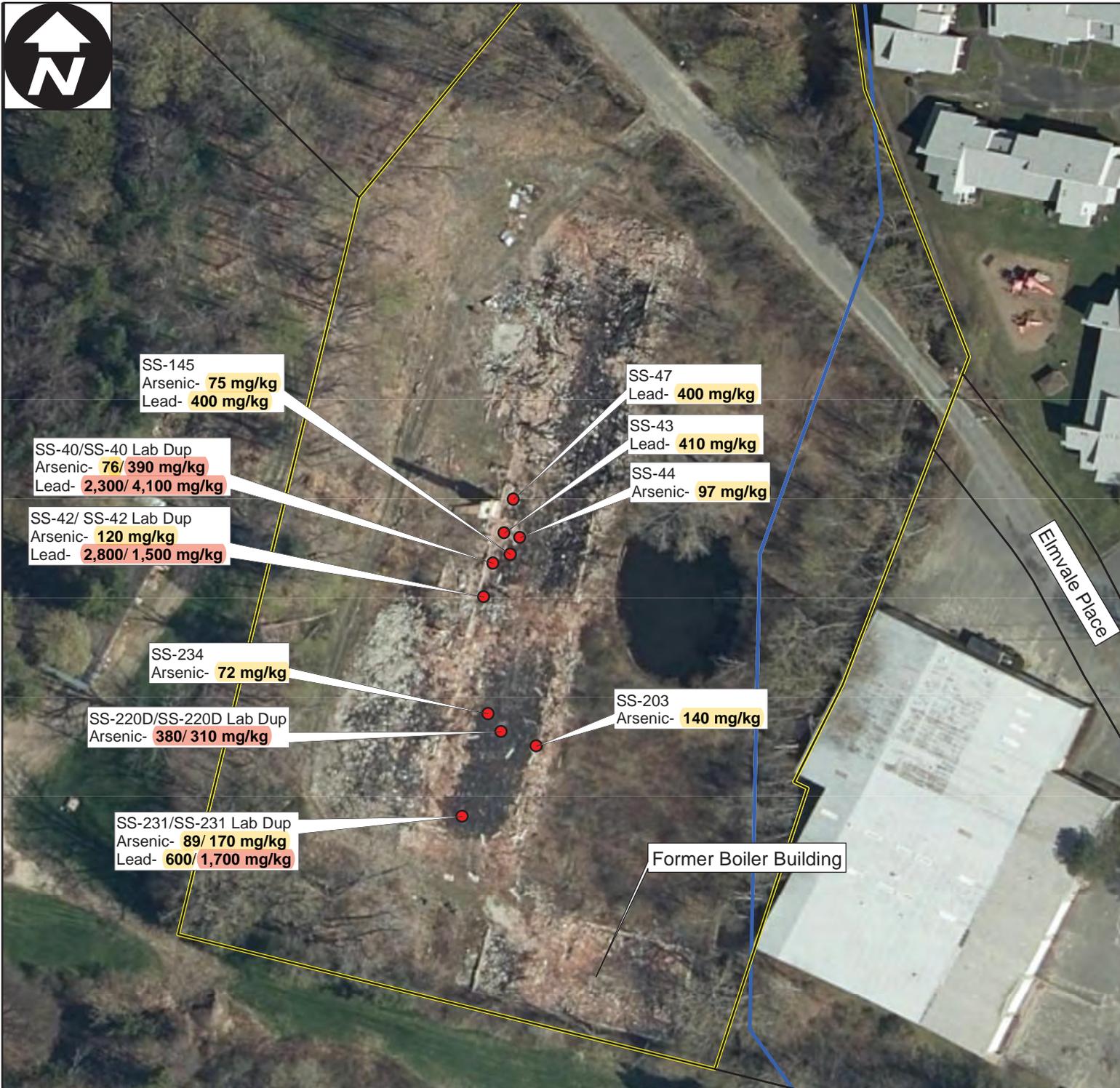


Figure 6A
Field Screening Metals
Results - June 2022

JB Paper Co. Site
70 Elmvale Place
Pittsfield, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001
AD Number: TOFP-01-22-02-0001
Created by: B. Mace
Created on: 8 March 2022
Modified by: T. Evans
Modified on: 29 July 2022

LEGEND

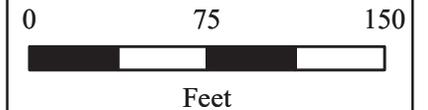
- Parcel/Property Boundary
- Site Boundary
- Water Body
- Elevated Metals Sample Locations

EPA RML-Res = US EPA Removal Management Level for Residential Soil

EPA RML-Ind = US EPA Removal Management Level for Industrial Soil

Values bolded and shaded in yellow indicate compounds exceeding the EPA Residential RML.

Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
 Topos: USA TopoMaps
 All other data: START





Figure 6B
Confirmatory Metals
Results - June 2022
JB Paper Co. Site
70 Elmvale Place
Pittsfield, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001
AD Number: TOFP-01-22-02-0001
Created by: B. Mace
Created on: 8 March 2022
Modified by: T. Evans
Modified on: 29 July 2022

LEGEND

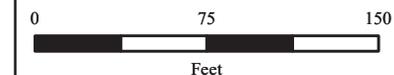
- Parcel/Property Boundary
 - Site Boundary
 - Water Body
 - Metals Results Locations
- mg/kg = milligrams per kilogram

EPA RML-Res = US EPA Removal Management Level for Residential Soil

EPA RML-Ind = US EPA Removal Management Level for Industrial Soil

Values **bolded and shaded in yellow** indicate compounds exceeding the EPA Residential RML.

Values **bolded and shaded in red** indicate compounds exceeding the EPA Industrial RML.



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
 Topos: USA TopoMaps
 All other data: START



Appendix B

Tables

Table 1	-	Summary of Soil Field Screening Results – March 2022
Table 2	-	Summary of Soil Sample Results – March 2022
Table 3	-	Summary of Bulk Asbestos Sample Results – March 2022
Table 4		Summary of Soil Field Screening Results – June 2022
Table 5		Summary of Soil Sample Results – June 2022
Table 6		Summary of Bulk Asbestos Sample Results – June 2022

TABLE 1
SUMMARY OF SOIL FIELD SCREENING RESULTS
JB PAPER CO.
PITTSFIELD, MASSACHUSETTS
30 THROUGH 31 MARCH 2022

Lab Sample ID (PCB)	Lab Sample ID (XRF)	Sample Location	Aroclor-1242	Aroclor-1254	Aroclor-1260	Silver	Arsenic	Barium	Cadmium	Chromium	Lead
EPA RML - Residential			23.0	3.5	24.0	1,200	68	46,000	210	NL	400
EPA RML - Industrial			95.0	44.0	99.0	18,000	300	650,000	2,900	NL	800
AB97950	AB97913	SS-01	ND (0.80)	ND (0.50)	ND (0.40)	ND	ND	500	ND	ND	21
---	AB97926	SS-02	---	---	---	ND	25	1,700	ND	120	130
---	AB97933	SS-03	---	---	---	ND	20	2,300	ND	110	270
---	AB97931	SS-04	---	---	---	ND	22	ND	ND	91	100
---	AB97932	SS-05	---	---	---	ND	22	210	ND	160	260
---	AB97928	SS-06	---	---	---	ND	23	ND	ND	ND	120
AB97949	AB97912	SS-07	ND (0.80)	ND (0.50)	ND (0.40)	ND	ND	1,300	ND	28	110
AB97952	AB97915	SS-09	ND (0.80)	ND (0.50)	ND (0.40)	6.0	ND	1,600	10	42	88
---	AB97927	SS-10	---	---	---	ND	ND	ND	ND	ND	150
AB97957	AB97921	SS-11	ND (5.0)	ND (2.5)	ND (2.0)	ND	25	97	ND	45	120
AB97958	---	SS-11 (Dup)	ND (5.0)	ND (2.5)	ND (2.0)	---	---	---	---	---	---
---	AB97934	SS-12	---	---	---	ND	15	330	ND	ND	110
---	AB97925	SS-13	---	---	---	ND	13	ND	ND	ND	88
---	AB97922	SS-14	---	---	---	ND	ND	ND	ND	ND	47
---	AB97929	SS-15	---	---	---	ND	14	570	ND	59	65
AB97955	AB97918	SS-16	ND (0.80)	ND (0.50)	ND (0.40)	ND	10	420	ND	48	44
AB97954	AB97917	SS-17	ND (5.0)	ND (2.5)	ND (2.0)	ND	12	ND	ND	ND	85
---	AB97936	SS-18	---	---	---	ND	35	310	ND	ND	450
AB97947	AB97910	SS-19	ND (5.0)	ND (2.5)	ND (2.0)	ND	30	1,500	ND	78	250
AB97945	AB97908	SS-20	ND (0.80)	ND (0.50)	ND (0.40)	ND	ND	1,900	ND	45	58
AB97946	AB97909	SS-21	ND (5.0)	ND (2.5)	ND (2.0)	ND	14	720	ND	30	76
AB97943	AB97906	SS-22	ND (5.0)	ND (2.5)	ND (2.0)	ND	73	25	ND	45	550
AB97942	AB97920	SS-23	ND (5.0)	ND (2.5)	ND (2.0)	ND	25	ND	ND	ND	81
AB97944	AB97907	SS-24	ND (5.0)	ND (2.5)	ND (2.0)	ND	40	ND	ND	150	110
AB97939	AB97902	SS-25	ND (5.0)	ND (1.0)	ND (0.8)	ND	52	870	ND	130	270
AB97941	AB97904	SS-26	ND (2.5)	ND (1.3)	ND (1.0)	ND	39	59	ND	ND	130
AB97938	AB97900	SS-27	ND (5.0)	ND (2.5)	ND (2.0)	ND	190	170	ND	560	1,700
---	AB97935	SS-28	---	---	---	ND	26	230	ND	81	120
---	AB97923	SS-29	---	---	---	ND	53	2,200	ND	180	1,200
---	AB97924	SS-29 (Dup)	---	---	---	ND	110	1,400	ND	130	750
---	AB97930	SS-30	---	---	---	ND	32	2,600	ND	180	730
AB97953	AB97916	SS-31	ND (2.0)	ND (0.50)	ND (0.40)	ND	10	590	ND	45	66
AB97937	AB97899	SS-32	ND (0.80)	ND (0.50)	ND (0.40)	ND	ND	480	ND	18	56
AB97940	AB97903	SS-33	ND (0.80)	ND (0.50)	ND (0.40)	ND	42	850	ND	340	120
AB97956	AB97919	SS-34	ND (0.80)	ND (0.50)	ND (0.40)	ND	ND	150	ND	49	89
AB97948	AB97911	SS-35	ND (0.80)	ND (0.50)	ND (0.40)	ND	6.0	470	ND	39	19
AB97951	AB97914	SS-36	ND (1.6)	ND (1.0)	ND (0.8)	ND	9.0	270	ND	30	53

NOTES:

All results reported in milligrams per Kilogram (mg/Kg).

--- = Not Analyzed/Not Applicable

PCBs = Polychlorinated Biphenyls

XRF = X-Ray Fluorescence Spectrometer (metals)

EPA RML - Residential = EPA Regional Management Level for Residential Soil, HQ=3.

EPA RML - Industrial = EPA Regional Management Level for Industrial Soil, HQ=3.

Bolded results highlighted in YELLOW exceed the EPA RML Residential standards.

Bolded results highlighted in RED exceed the EPA RML Industrial standards.

Values in parentheses are reporting limits.

TABLE 2
SUMMARY OF SOIL SAMPLE RESULTS
JB PAPER CO. SITE, PITTSFIELD, MASSACHUSETTS
30 THROUGH 31 MARCH 2022

COMPOUND	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH:		SS-05 AB97879 0-3 inches	SS-16 AB97880 0-3 inches	SS-18 AB97881 0-3 inches	SS-19 AB97882 0-3 inches	SS-22 AB97883 0-3 inches	SS-25 AB97884 0-3 inches
	EPA RML-Res	EPA RML-Ind						
	mg/kg		mg/kg					
Silver	1,200	18,000	ND	ND	ND	ND	ND	ND
Aluminum	230,000	3,400,000	3,100	7,300	4,500	3,000	2,900	4,400
Arsenic	68	300	10	ND	13	16	50	17
Barium	46,000	650,000	2,400	63	4,300	4,900	4,500	3,800
Calcium	NL	NL	8,200	31,000	8,000	11,000	7,100	10,000
Cadmium	210	2,900	ND	ND	ND	ND	ND	ND
Cobalt	70	1,000	ND	ND	ND	ND	ND	ND
Chromium	NL	NL	66	12	29	51	38	57
Copper	9,400	140,000	240	24	110	100	130	120
Iron	160,000	2,500,000	69,000	25,000	83,000	120,000	58,000	84,000
Magnesium	NL	NL	2,800	13,000	3,100	4,600	2,600	9,000
Manganese	5,500	77,000	550	600	530	540	830	750
Nickel	4,600	67,000	60	16	25	32	53	83
Lead	400	800	230	60	1,400	340	3,700	180
Antimony	94	1,400	ND	ND	ND	ND	290	ND
Vanadium	1,200	17,000	110	16	35	25	75	160
Zinc	70,000	1,100,000	3,800	120	5,400	5,600	5,500	2,600

ANALYTICAL METHODS

Metals: EPA Region I LSBSOP-OPTIMAS1,
Metals in Soil Metals in Soil by ICP-OES.

NOTES:

- 1) mg/kg = milligrams per kilogram
- 2) NL = Not Listed.
- 3) ND = Not Detected.
- 4) Results are reported in the units noted.
- 5) EPA RML-Res = US EPA Removal Management Level for Residential Soil
- 6) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 7) Values bolded and shaded in yellow indicate compounds exceeding the EPA Residential RML.
- 8) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 9) A compound is listed in the table above only if it was detected in at least one of the samples analyzed.
Compounds that were analyzed for, but not detected, have been omitted.
- 10) Any samples in which there were no compounds detected have been omitted from this table.

TABLE 2
SUMMARY OF SOIL SAMPLE RESULTS
JB PAPER CO. SITE, PITTSFIELD, MASSACHUSETTS
30 THROUGH 31 MARCH 2022

COMPOUND	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH:		SS-27 AB97885 0-3 inches	SS-28 AB97886 0-3 inches	SS-29 AB97887 0-3 inches	SS-30 AB97888 0-3 inches	SS-128 AB97889 0-3 inches
	EPA RML-Res	EPA RML-Ind					
	mg/kg		mg/kg				
Silver	1,200	18,000	5.8	ND	ND	ND	ND
Aluminum	230,000	3,400,000	2,000	7,200	7,400	5,000	5,700
Arsenic	68	300	17	54	16	20	34
Barium	46,000	650,000	1,700	2,400	4,500	4,400	1,100
Calcium	NL	NL	6,000	9,800	35,000	26,000	8,000
Cadmium	210	2,900	ND	ND	8.4	ND	ND
Cobalt	70	1,000	ND	12	ND	ND	ND
Chromium	NL	NL	180	30	49	36	16
Copper	9,400	140,000	450	81	400	120	63
Iron	160,000	2,500,000	29,000	31,000	70,000	27,000	29,000
Magnesium	NL	NL	5,400	2,600	5,000	5,300	1,800
Manganese	5,500	77,000	210	330	530	300	240
Nickel	4,600	67,000	28	31	44	38	23
Lead	400	800	1,800	280	1,100	980	150
Antimony	94	1,400	ND	ND	ND	ND	ND
Vanadium	1,200	17,000	58	31	110	150	21
Zinc	70,000	1,100,000	2,400	2,400	15,000	5,800	1,100

ANALYTICAL METHODS

Metals: EPA Region I LSBSOP-OPTIMAS1,
 Metals in Soil Metals in Soil by ICP-OES.

NOTES:

- 1) mg/kg = milligrams per kilogram
- 2) NL = Not Listed.
- 3) ND = Not Detected.
- 4) Results are reported in the units noted.
- 5) EPA RML-Res = US EPA Removal Management Level for Residential Soil
- 6) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 7) Values bolded and shaded in yellow indicate compounds exceeding the EPA Residential RML.
- 8) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 9) A compound is listed in the table above only if it was detected in at least one of the samples analyzed.
 Compounds that were analyzed for, but not detected, have been omitted.
- 10) Any samples in which there were no compounds detected have been omitted from this table.

TABLE 3

**SUMMARY OF BULK ASBESTOS SAMPLE RESULTS
JB PAPER CO. SITE
PITTSFIELD, MASSACHUSETTS
MARCH 2022**

SAMPLE LOCATION	ACM-01	ACM-02	ACM-03	ACM-04	ACM-05	ACM-06	ACM-07	ACM-08
SAMPLE NUMBER	0129-0037	0129-0038	0129-0039	0129-0040	0129-0041	0129-0042	0129-0043	0129-0044
LABORATORY NUMBER	AB97891	AB97892	AB97893	AB97894	AB97895	AB97896	AB97897	AB97898
DATE SAMPLED	3/30/2022	3/30/2022	3/30/2022	3/30/2022	3/30/2022	3/30/2022	3/30/2022	3/30/2022
COMPOUND								
Actinolite	ND							
Amosite	ND							
Anthophyllite	ND							
Chrysotile	ND	30						
Crocidolite	ND							
Tremolite	ND							

NOTES:

- 1) Samples were analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME)
New England Regional Laboratory (NERL) via Polarized Light Microscopy (PLM).
- 2) All quantities are estimated volume percent (%).
- 3) ND = Not Detected

TABLE 4
SUMMARY OF SOIL FIELD SCREENING RESULTS
JB PAPER CO.
PITTSFIELD, MASSACHUSETTS
21-22 JUNE 2022

Lab Sample ID (XRF)	Sample Location	Chromium	Lead	Arsenic	Cadmium	Barium
EPA RML - Residential		NL	400	68	210	46,000
EPA RML - Industrial		NL	800	300	2,900	650,000
AB99725	SS-40	230	2,300	76	ND	3,800
AB99726	SS-40 LAB DUP	190	4,100	390	ND	3,700
AB99727	SS-41	110	180	36	ND	230
AB99728	SS-42	410	2,800	120	ND	7,500
AB99729	SS-42 LAB DUP	310	1,500	ND	ND	8,600
AB99721	SS-43	190	410	34	ND	2,000
AB99722	SS-44	240	320	97	ND	340
AB99723	SS-45	200	270	34	ND	1,700
AB99724	SS-145	240	400	75	ND	1,300
AB99731	SS-46	120	310	37	ND	1,200
AB99730	SS-47	85	400	ND	ND	2,400
AB99732	SS-200	240	130	35	ND	2,200
AB99733	SS-201	270	270	35	ND	4,400
AB99734	SS-202	330	120	47	ND	730
AB99735	SS-203	410	380	140	ND	310
AB99736	SS-204	79	160	24	ND	720
AB99737	SS-205	28	36	8.0	ND	860
AB99738	SS-305	ND	26	9.0	ND	940
AB99747	SS-206	160	190	30	ND	ND
AB99748	SS-207	110	34	16	ND	600
AB99749	SS-208	70	110	12	ND	470
AB99750	SS-209	ND	96	13	ND	ND
AB99751	SS-210	41	100	12	ND	ND
AB99752	SS-211	ND	45	9.0	ND	450
AB99753	SS-212	36	170	ND	7.0	1,300
AB99754	SS-213	140	280	21	ND	1,900
AB99755	SS-214	91	110	15	ND	150
AB99756	SS-215	130	130	46	ND	ND
AB99757	SS-216	140	150	59	ND	200
AB99758	SS-217	49	160	21	ND	120
AB99759	SS-218	110	210	49	ND	960
AB99760	SS-219	150	170	44	ND	ND
AB99761	SS-220	83	94	30	ND	530
AB99762	SS-220D	410	79	380	ND	590
AB99763	SS-220D LAB DUP	130	73	310	ND	500

TABLE 4
SUMMARY OF SOIL FIELD SCREENING RESULTS
JB PAPER CO.
PITTSFIELD, MASSACHUSETTS
21-22 JUNE 2022

Lab Sample ID (XRF)	Sample Location	Chromium	Lead	Arsenic	Cadmium	Barium
EPA RML - Residential		NL	400	68	210	46,000
EPA RML - Industrial		NL	800	300	2,900	650,000
AB99764	SS-221	110	160	52	ND	72
AB99765	SS-222	100	200	67	ND	23
AB99766	SS-223	88	99	40	ND	ND
AB99767	SS-224	38	160	24	ND	ND
AB99768	SS-225	22	61	ND	ND	790
AB99769	SS-226	ND	63	12	ND	580
AB99770	SS-227	41	47	15	ND	740
AB99771	SS-228	41	130	ND	ND	870
AB99772	SS-229	35	92	10	ND	590
AB99773	SS-230	58	120	17	ND	570
AB99774	SS-231	130	600	89	ND	ND
AB99775	SS-231 LAB DUP	170	1,700	170	ND	ND
AB99776	SS-232	130	87	25	ND	200
AB99777	SS-233	44	72	45	ND	ND
AB99778	SS-234	86	100	72	ND	220
AB99739	SS-235	84	200	40	ND	280
AB99740	SS-235 LAB DUP	65	160	41	ND	ND
AB99741	SS-236	56	98	26	ND	200
AB99742	SS-237	80	140	28	ND	620
AB99743	SS-238	210	350	27	ND	2,400
AB99744	SS-239	ND	16	ND	ND	440
AB99745	SS-240	ND	180	41	ND	ND
AB99746	SS-241	270	370	38	ND	1,200

NOTES:

All results reported in milligrams per Kilogram (mg/Kg).

XRF = X-Ray Fluorescence Spectrometer (metals screening)

EPA RML - Residential = EPA Regional Management Level for Residential Soil, HQ=3.

EPA RML - Industrial = EPA Regional Management Level for Industrial Soil, HQ=3.

Bolded results highlighted in YELLOW exceed the EPA RML Residential standards.

Bolded results highlighted in RED exceed the EPA RML Industrial standards.

**TABLE 5
SUMMARY OF SOIL SAMPLE RESULTS
JB PAPER CO. SITE, PITTSFIELD, MASSACHUSETTS
21 THROUGH 22 JUNE 2022**

COMPOUND	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH:		SS-40 0129-0061 0-3 inches	SS-42 0129-0063 0-3 inches	SS-47 0129-0069 0-3 inches	SS-203 0129-0073 0-3 inches	SS-205 0129-0075 0-3 inches	SS-305 0129-0076 0-3 inches
	EPA RML-Res	EPA RML-Ind						
	mg/kg		mg/kg					
Aluminum	230,000	3,400,000	3,900	7,600	6,200	5,100	10,000	11,000
Arsenic	68	300	30	15	15	59	7.1	6.4
Barium	46,000	650,000	12,000	8,100	8,700	3,200	1,700	1,400
Calcium	NL	NL	14,000	52,000	43,000	15,000	65,000	65,000
Cadmium	210	2,900	63	ND	ND	ND	ND	ND
Cobalt	70	1,000	ND	11	ND	ND	6.9	7.2
Chromium	NL	NL	110	120	52	88	16	17
Copper	9,400	140,000	15,000	210	3,400	160	42	36
Iron	160,000	2,500,000	230,000	130,000	160,000	120,000	40,000	32,000
Magnesium	NL	NL	13,000	5,800	4,000	3,100	4,400	4,400
Manganese	5,500	77,000	1,200	800	960	820	540	510
Nickel	4,600	67,000	78	29	61	55	21	24
Lead	400	800	12,000	2,600	1,300	290	44	40
Vanadium	1,200	17,000	35	34	80	59	27	27
Zinc	70,000	1,100,000	16,000	14,000	13,000	3,100	1,600	1,100

ANALYTICAL METHODS

Metals: EPA Region I LSBSOP-OPTIMAS1,
Metals in Soil Metals in Soil by ICP-OES.

NOTES:

- 1) mg/kg = milligrams per kilogram
- 2) NL = Not Listed.
- 3) ND = Not Detected.
- 4) Results are reported in the units noted.
- 5) EPA RML-Res = US EPA Removal Management Level for Residential Soil
- 6) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 7) Values bolded and shaded in yellow indicate compounds exceeding the EPA Residential RML.
- 8) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 9) A compound is listed in the table above only if it was detected in at least one of the samples analyzed.
Compounds that were analyzed for, but not detected, have been omitted.
- 10) Any samples in which there were no compounds detected have been omitted from this table.

TABLE 5
SUMMARY OF SOIL SAMPLE RESULTS
JB PAPER CO. SITE, PITTSFIELD, MASSACHUSETTS
21 THROUGH 22 JUNE 2022

COMPOUND	SAMPLE LOCATION: SAMPLE NUMBER: SAMPLE DEPTH:		SS-220D 0129-0092 0-3 inches	SS-231 0129-0103 0-3 inches	SS-238 0129-0110 0-3 inches	SS-241 0129-0113 0-3 inches
	EPA RML-Res	EPA RML-Ind				
	mg/kg		mg/kg			
Aluminum	230,000	3,400,000	5,600	2,300	7,200	15,000
Arsenic	68	300	330	46	20	24
Barium	46,000	650,000	2,600	3,000	4,300	5,900
Calcium	NL	NL	4,200	3,400	24,000	34,000
Cadmium	210	2,900	ND	ND	ND	4.6
Cobalt	70	1,000	4.8	ND	ND	16
Chromium	NL	NL	80	58	40	190
Copper	9,400	140,000	780	120	200	200
Iron	160,000	2,500,000	50,000	75,000	92,000	59,000
Magnesium	NL	NL	1,800	2,400	8,000	44,000
Manganese	5,500	77,000	340	470	760	770
Nickel	4,600	67,000	20	58	63	430
Lead	400	800	120	1,200	280	690
Vanadium	1,200	17,000	32	79	170	870
Zinc	70,000	1,100,000	1,500	2,400	16,000	8,000

ANALYTICAL METHODS

Metals: EPA Region I LSBSOP-OPTIMAS1,
 Metals in Soil Metals in Soil by ICP-OES.

NOTES:

- 1) mg/kg = milligrams per kilogram
- 2) NL = Not Listed.
- 3) ND = Not Detected.
- 4) Results are reported in the units noted.
- 5) EPA RML-Res = US EPA Removal Management Level for Residential Soil
- 6) EPA RML-Ind = US EPA Removal Management Level for Industrial Soil
- 7) Values bolded and shaded in yellow indicate compounds exceeding the EPA Residential RML.
- 8) Values bolded and shaded in red indicate compounds exceeding the EPA Industrial RML.
- 9) A compound is listed in the table above only if it was detected in at least one of the samples analyzed.
 Compounds that were analyzed for, but not detected, have been omitted.
- 10) Any samples in which there were no compounds detected have been omitted from this table.

TABLE 6

**SUMMARY OF BULK ASBESTOS SAMPLE RESULTS
JB PAPER CO. SITE
PITTSFIELD, MASSACHUSETTS
JUNE 2022**

SAMPLE LOCATION	ACM-09	ACM-10	ACM-11	ACM-12	ACM-13	ACM-113
SAMPLE NUMBER	0129-0050	0129-0051	0129-0052	0129-0053	0129-0054	0129-0055
LABORATORY NUMBER	AB99699	AB99700	AB99701	AB99702	AB99703	AB99704
DATE SAMPLED	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022
COMPOUND						
Actinolite	ND	ND	ND	ND	ND	ND
Amosite	ND	ND	ND	ND	ND	ND
Anthophyllite	ND	ND	ND	ND	ND	ND
Chrysotile	ND	ND	ND	ND	ND	ND
Crocidolite	ND	ND	ND	ND	ND	ND
Tremolite	ND	ND	ND	ND	ND	ND

SAMPLE LOCATION	ACM-14	ACM-15	ACM-16	ACM-17	ACM-18
SAMPLE NUMBER	0129-0056	0129-0057	0129-0058	0129-0059	0129-0060
LABORATORY NUMBER	AB99705	AB99706	AB99707	AB99708	AB99709
DATE SAMPLED	6/21/2022	6/21/2022	6/21/2022	6/21/2022	6/21/2022
COMPOUND					
Actinolite	ND	ND	ND	ND	ND
Amosite	ND	ND	ND	ND	ND
Anthophyllite	ND	ND	ND	ND	ND
Chrysotile	ND	ND	ND	ND	ND
Crocidolite	ND	ND	ND	ND	ND
Tremolite	ND	ND	ND	ND	ND

NOTES:

- 1) Samples were analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) New England Regional Laboratory (NERL) via Polarized Light Microscopy (PLM).
- 2) All quantities are estimated volume percent (%).
- 3) ND = Not Detected

Appendix C

Photodocumentation Log

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of a drum carcass located on site. Photograph taken facing south.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1519 hours
CAMERA: Apple iPhone 8



SCENE: View of a debris pile located toward the eastern wall of the (former) building. Debris includes wood, metal, brick, and possible asbestos-containing material (ACM). Photograph taken facing northeast.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1519 hours
CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of the debris pile located toward the western wall of the (former) building. Debris includes wood, metal, plastic, brick, and possible ACM. Photograph taken facing northwest.

DATE: 30 March 2022

PHOTOGRAPHER: J. Elias

TIME: 1519 hours

CAMERA: Apple iPhone 8



SCENE: View of the remaining freestanding chimney. Photograph taken facing northwest.

DATE: 30 March 2022

PHOTOGRAPHER: J. Elias

TIME: 1519 hours

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of a drum carcass located on site. Photograph taken facing west.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1519 hours
CAMERA: Apple iPhone 8



SCENE: View of a debris pile containing wood, metal, plastic, and possible ACM. Photograph taken facing northwest.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1520 hours
CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of the (former) main building. Photograph taken facing the northwest.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1520 hours
CAMERA: Apple iPhone 8



SCENE: View of the (former) main building. Photograph taken facing north.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1520 hours
CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of the (former) smaller second building located on site. The remaining debris pile contains wood, metal, and possible ACM. Photograph taken facing south.

DATE: 30 March 2022

PHOTOGRAPHER: J. Elias

TIME: 1521 hours

CAMERA: Apple iPhone 8



SCENE: View of the (former) second smaller building located at the southern end of the property. Photograph taken facing southeast.

DATE: 30 March 2022

PHOTOGRAPHER: J. Elias

TIME: 1521 hours

CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of the (former) main building from the southwestern corner. Photograph taken facing northeast.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1522 hours
CAMERA: Apple iPhone 8



SCENE: View of the (former) northernmost portion of the main building. Photograph taken facing south.

DATE: 30 March 2022
PHOTOGRAPHER: J. Elias

TIME: 1524 hours
CAMERA: Apple iPhone 8

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of a suspected ACM pile. The pile was located toward the northernmost portion of the (former) building. Photograph taken facing southeast.

DATE: 30 March 2022

PHOTOGRAPHER: J. Elias

TIME: 1524 hours

CAMERA: Apple iPhone 8



SCENE: View of the (former) main building. Round 2 of sampling was conducted on the southern portion of the property. Photograph taken facing north.

DATE: 6 June 2022

PHOTOGRAPHER: T. Evans

TIME: 0925 hours

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
JB Paper Company • Pittsfield, Massachusetts



SCENE: View of the (former) second smaller building overgrown with vegetation located at the southern portion of the property. Photograph taken facing southeast.

DATE: 6 June 2022

PHOTOGRAPHER: T. Evans

TIME: 0925 hours

CAMERA: Apple iPhone 13



SCENE: View of soil sample location SS-220D located at the southern end of the property. Photograph taken facing northeast.

DATE: 6 June 2022

PHOTOGRAPHER: T. Evans

TIME: 0925 hours

CAMERA: Apple iPhone 13

Appendix D

Analytical Data and Chain-of-Custody Records

Laboratory Report

April 28, 2022

Allyson Bowden - Mail Code 02-2
US EPA New England R1

Project Number: 22040001
Project: JB Paper Co. - Pittsfield, MA
Analysis: Metals in Soil by ICP-OES
EPA Chemist: Janet Paquin

Date Samples Received by the Laboratory: 04/01/2022

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-OPTIMAS1.

Samples were prepared following the EPA Region I SOP, EIASOP-INGMETALSPREP8

Preparation and analysis SOP's are based on "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, Revision 2, Final Update III, Methods 3050B and 6010B," respectively.

Samples were analyzed for Total Recoverable Metals using a Perkin Elmer Dual View Inductively Coupled Plasma - Optical Emission Spectrometer

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

**DANIEL
BOUDREAU** Digitally signed by
DANIEL BOUDREAU
Date: 2022.04.28
15:30:46 -04'00'

22040001\$METMS_PE

Qualifiers:

- RL** = Reporting limit
- ND** = Not Detected above Reporting limit
- NA** = Not Applicable due to high sample dilutions or sample interferences
- NC** = Not calculated since analyte concentration is ND.
- J** = Estimated value
- J1** = Estimated value due to MS recovery outside acceptance criteria
- J2** = Estimated value due to LFB result outside acceptance criteria
- J3** = Estimated value due to RPD result outside acceptance criteria
- J4** = Estimated value due to LCS result outside acceptance criteria
- E** = Estimated value exceeds the calibration range
- L** = Estimated value is below the calibration range
- B** = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
- R** = No recovery was calculated since the analyte concentration is greater than four times the spike level.
- P** = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
- C** = The identification has been confirmed by GC/MS.
- A** = Suspected Aldol condensation product.
- N** = Tentatively identified compound.

The samples were diluted due to the difficult matrices. Most were inhomogeneous. Many contained small particles, twigs, and black chunks that looked like charred pieces.

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0005
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97879
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.1	
7429-90-5	Aluminum	3100	56	
7440-38-2	Arsenic	10	10	
7440-39-3	Barium	2400	10	
7440-41-7	Beryllium	ND	4.1	
7440-70-2	Calcium	8200	51	
7440-43-9	Cadmium	ND	5.1	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	66	10	
7440-50-8	Copper	240	10	
7439-89-6	Iron	69000	20	
7439-95-4	Magnesium	2800	51	
7439-96-5	Manganese	550	10	
7440-02-0	Nickel	60	10	
7439-92-1	Lead	230	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	110	10	
7440-66-6	Zinc	3800	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0016
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97880
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	7300	55	
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	63	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	31000	50	J3
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	J3
7440-47-3	Chromium	12	10	
7440-50-8	Copper	24	10	
7439-89-6	Iron	25000	20	
7439-95-4	Magnesium	13000	50	J3
7439-96-5	Manganese	600	10	
7440-02-0	Nickel	16	10	
7439-92-1	Lead	60	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	16	10	
7440-66-6	Zinc	120	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0018
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97881
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	4500	55	
7440-38-2	Arsenic	13	10	
7440-39-3	Barium	4300	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	8000	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	29	10	
7440-50-8	Copper	110	10	
7439-89-6	Iron	83000	20	
7439-95-4	Magnesium	3100	50	
7439-96-5	Manganese	530	10	
7440-02-0	Nickel	25	10	
7439-92-1	Lead	1400	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	35	10	
7440-66-6	Zinc	5400	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0019
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97882
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	3000	55	
7440-38-2	Arsenic	16	10	
7440-39-3	Barium	4900	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	11000	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	51	10	
7440-50-8	Copper	100	10	J1
7439-89-6	Iron	120000	20	
7439-95-4	Magnesium	4600	50	
7439-96-5	Manganese	540	10	
7440-02-0	Nickel	32	10	
7439-92-1	Lead	340	20	
7440-36-0	Antimony	ND	10	J1
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	25	10	
7440-66-6	Zinc	5600	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0022
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97883
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	2900	55	
7440-38-2	Arsenic	50	10	
7440-39-3	Barium	4500	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	7100	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	38	10	
7440-50-8	Copper	130	10	
7439-89-6	Iron	58000	20	
7439-95-4	Magnesium	2600	50	
7439-96-5	Manganese	830	10	
7440-02-0	Nickel	53	10	
7439-92-1	Lead	3700	20	
7440-36-0	Antimony	290	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	75	10	
7440-66-6	Zinc	5500	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0025
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97884
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	4400	55	
7440-38-2	Arsenic	17	10	
7440-39-3	Barium	3800	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	10000	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	57	10	
7440-50-8	Copper	120	10	
7439-89-6	Iron	84000	20	
7439-95-4	Magnesium	9000	50	
7439-96-5	Manganese	750	10	
7440-02-0	Nickel	83	10	
7439-92-1	Lead	180	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	160	10	
7440-66-6	Zinc	2600	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0027
 Date of Collection: 3/30/2022
 Date of Preparation: 4/18/2022
 Date of Analysis: 4/27/2022
 Dry Weight Prepared: N/A
 Wet Weight Prepared: N/A
 Volume Extracted: N/A
 Final Volume: 50 mL

Lab Sample ID: AB97885
 Matrix: Soil
 Amount Prepared: N/A
 Percent Solids: N/A
 Extract Dilution: 5
 pH: N/A
 GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	5.8	5.0	
7429-90-5	Aluminum	2000	55	
7440-38-2	Arsenic	17	10	
7440-39-3	Barium	1700	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	6000	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	180	10	
7440-50-8	Copper	450	10	
7439-89-6	Iron	29000	20	
7439-95-4	Magnesium	5400	50	
7439-96-5	Manganese	210	10	
7440-02-0	Nickel	28	10	
7439-92-1	Lead	1800	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	58	10	
7440-66-6	Zinc	2400	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0028
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97886
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	7200	55	
7440-38-2	Arsenic	54	10	
7440-39-3	Barium	2400	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	9800	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	12	10	
7440-47-3	Chromium	30	10	
7440-50-8	Copper	81	10	
7439-89-6	Iron	31000	20	
7439-95-4	Magnesium	2600	50	
7439-96-5	Manganese	330	10	
7440-02-0	Nickel	31	10	
7439-92-1	Lead	280	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	31	10	
7440-66-6	Zinc	2400	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0029
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97887
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	7400	55	
7440-38-2	Arsenic	16	10	
7440-39-3	Barium	4500	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	35000	50	
7440-43-9	Cadmium	8.4	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	49	10	
7440-50-8	Copper	400	10	
7439-89-6	Iron	70000	20	
7439-95-4	Magnesium	5000	50	
7439-96-5	Manganese	530	10	
7440-02-0	Nickel	44	10	
7439-92-1	Lead	1100	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	110	10	
7440-66-6	Zinc	15000	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0030
Date of Collection: 3/30/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97888
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	5000	55	
7440-38-2	Arsenic	20	10	
7440-39-3	Barium	4400	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	26000	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	36	10	
7440-50-8	Copper	120	10	
7439-89-6	Iron	27000	20	
7439-95-4	Magnesium	5300	50	
7439-96-5	Manganese	300	10	
7440-02-0	Nickel	38	10	
7439-92-1	Lead	980	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	150	10	
7440-66-6	Zinc	5800	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0046
Date of Collection: 3/31/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97889
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.0	
7429-90-5	Aluminum	5700	55	
7440-38-2	Arsenic	34	10	
7440-39-3	Barium	1100	10	
7440-41-7	Beryllium	ND	4.0	
7440-70-2	Calcium	8000	50	
7440-43-9	Cadmium	ND	5.0	
7440-48-4	Cobalt	ND	10	
7440-47-3	Chromium	16	10	
7440-50-8	Copper	63	10	
7439-89-6	Iron	29000	20	
7439-95-4	Magnesium	1800	50	
7439-96-5	Manganese	240	10	
7440-02-0	Nickel	23	10	
7439-92-1	Lead	150	20	
7440-36-0	Antimony	ND	10	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	21	10	
7440-66-6	Zinc	1100	20	

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0047
Date of Collection: 3/31/2022
Date of Preparation: 4/18/2022
Date of Analysis: 4/27/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB97890
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	8.5	0.98	
7429-90-5	Aluminum	2500	11	
7440-38-2	Arsenic	50	2.0	
7440-39-3	Barium	7.1	2.0	
7440-41-7	Beryllium	15	0.78	
7440-70-2	Calcium	7600	9.8	
7440-43-9	Cadmium	ND	0.98	
7440-48-4	Cobalt	66	2.0	
7440-47-3	Chromium	26	2.0	
7440-50-8	Copper	19	2.0	
7439-89-6	Iron	5400	3.9	
7439-95-4	Magnesium	450	9.8	
7439-96-5	Manganese	37	2.0	
7440-02-0	Nickel	ND	2.0	
7439-92-1	Lead	7.4	3.9	
7440-36-0	Antimony	27	2.0	
7782-49-2	Selenium	26	3.9	
7440-28-0	Thallium	ND	2.0	
7440-62-2	Vanadium	54	2.0	
7440-66-6	Zinc	8.5	3.9	

JB Paper Co. - Pittsfield, MA

Laboratory Reagent Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	4/18/2022	Amount Prepared:	N/A
Date of Analysis:	4/27/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	50 mL		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
7440-22-4	Silver	ND	10	
7429-90-5	Aluminum	ND	110	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8.0	
7440-70-2	Calcium	ND	100	
7440-43-9	Cadmium	ND	10	
7440-48-4	Cobalt	ND	20	
7440-47-3	Chromium	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7439-92-1	Lead	ND	40	
7440-36-0	Antimony	ND	20	
7782-49-2	Selenium	ND	40	
7440-28-0	Thallium	ND	20	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	40	

JB Paper Co. - Pittsfield, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB97882

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Antimony	98.0	ND	60.0	61	75 - 125
Arsenic	98.0	16.0	109	95	75 - 125
Barium	98.0	4900	5460	R	75 - 125
Beryllium	39.0	ND	39.0	101	75 - 125
Cadmium	49.0	ND	53.0	108	75 - 125
Chromium	98.0	51.0	161	112	75 - 125
Cobalt	98.0	ND	107	109	75 - 125
Copper	98.0	100	229	132	75 - 125
Lead	98.0	340	431	93	75 - 125
Manganese	98.0	540	577	R	75 - 125
Nickel	98.0	32.0	125	95	75 - 125
Selenium	98.0	ND	100	102	75 - 125
Silver	20.0	ND	21.0	109	75 - 125
Thallium	98.0	ND	88.0	89	75 - 125
Vanadium	98.0	25.0	117	94	75 - 125
Zinc	98.0	5600	5800	R	75 - 125

JB Paper Co. - Pittsfield, MA

Laboratory Duplicate Results

Sample ID: AB97880

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aluminum	7300	6800	7.1	30
Antimony	ND	ND	NC	30
Arsenic	ND	ND	NC	30
Barium	63.0	67.0	6.2	30
Beryllium	ND	ND	NC	30
Cadmium	ND	ND	NC	30
Calcium	31000	13000	82	30
Chromium	12.0	11.0	8.7	30
Cobalt	ND	11.0	200	30
Copper	24.0	23.0	4.3	30
Iron	25000	21000	17	30
Lead	60.0	68.0	12	30
Magnesium	13000	8600	41	30
Manganese	600	580	3.4	30
Nickel	16.0	15.0	6.5	30
Selenium	ND	ND	NC	30
Silver	ND	ND	NC	30
Thallium	ND	ND	NC	30
Vanadium	16.0	15.0	6.5	30
Zinc	120	110	8.7	30

JB Paper Co. - Pittsfield, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Aluminum	1000	981	98	85 - 115
Antimony	1000	1000	100	85 - 115
Arsenic	1000	974	97	85 - 115
Barium	1000	987	99	85 - 115
Beryllium	400	384	96	85 - 115
Cadmium	500	486	97	85 - 115
Calcium	10000	10200	102	85 - 115
Chromium	1000	1010	101	85 - 115
Cobalt	1000	988	99	85 - 115
Copper	1000	1040	104	85 - 115
Iron	1000	993	99	85 - 115
Lead	1000	979	98	85 - 115
Magnesium	10000	9830	98	85 - 115
Manganese	1000	999	100	85 - 115
Nickel	1000	986	99	85 - 115
Selenium	1000	922	92	85 - 115
Silver	200	193	97	85 - 115
Thallium	1000	971	97	85 - 115
Vanadium	1000	1030	103	85 - 115
Zinc	1000	987	99	85 - 115

Comments:

JB Paper Co. - Pittsfield, MA

Solid Laboratory Control Sample (LCS) Results

PARAMETER	LCS RESULTS mg/Kg	CONTROL LIMITS mg/Kg
Aluminum	7800	4050 - 12200
Antimony	64.1	26.9 - 336
Arsenic	161	119 - 221
Barium	176	138 - 229
Beryllium	107	87.0 - 145
Cadmium	81.9	67.1 - 112
Calcium	4500	3490 - 6120
Chromium	92.2	70.6 - 131
Cobalt	80.8	63.6 - 106
Copper	152	112 - 186
Iron	12400	4920 - 23200
Lead	134	101 - 179
Magnesium	2260	1460 - 3240
Manganese	618	505 - 791
Nickel	64.8	47.8 - 88.8
Selenium	165	124 - 240
Silver	46.7	35.1 - 65.2
Thallium	84.2	57.9 - 118
Vanadium	142	111 - 196
Zinc	215	159 - 296

Comments:

Samples in Batch: AB97879, AB97880, AB97881, AB97882, AB97883, AB97884, AB97885, AB97886, AB97887, AB97888, AB97889, AB97890

PN 22040001

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-033122-140745-0002
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0002	SS-02	PCBS	Soil	3/30/2022	12:45	1	4 oz Jar	4C	
	0129-0003	SS-03	PCBS	Soil	3/30/2022	12:20	1	4 oz Jar	4C	
	0129-0004	SS-04	PCBS	Soil	3/30/2022	12:25	1	4 oz Jar	4C	
	0129-0005	SS-05	PCBS	Soil	3/30/2022	12:30	1	4 oz Jar	4C	
	0129-0006	SS-06	PCBS	Soil	3/30/2022	12:35	1	4 oz Jar	4C	
	0129-0010	SS-10	PCBS	Soil	3/30/2022	12:40	1	4 oz Jar	4C	
	0129-0011	SS-11	PCBS	Soil	3/30/2022	12:50	1	4 oz Jar	4C	
	0129-0012	SS-12	PCBS	Soil	3/30/2022	12:50	1	4 oz Jar	4C	
	0129-0013	SS-13	PCBS	Soil	3/30/2022	12:55	1	4 oz Jar	4C	
	0129-0014	SS-14	PCBS	Soil	3/30/2022	12:55	1	4 oz Jar	4C	
	0129-0015	SS-15	PCBS	Soil	3/30/2022	13:00	1	4 oz Jar	4C	
	0129-0018	SS-18	PCBS	Soil	3/30/2022	13:10	1	4 oz Jar	4C	
	0129-0023	SS-23	PCBS	Soil	3/30/2022	13:05	1	4 oz Jar	4C	
	0129-0029	SS-29	PCBS	Soil	3/30/2022	13:30	1	4 oz Jar	4C	
	0129-0030	SS-30	PCBS	Soil	3/30/2022	13:25	1	4 oz Jar	4C	
	0129-0031	SS-31	PCBS	Soil	3/30/2022	13:20	1	4 oz Jar	4C	
	0129-0035	SS-35	PCBS	Soil	3/30/2022	13:10	1	4 oz Jar	4C	
	0129-0001	SS-01	PCBS	Soil	3/30/2022	12:15	1	4 oz Jar	4C	
	0129-0028	SS-28	PCBS	Soil	3/30/2022	13:35	1	4 oz Jar	4C	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	<i>[Signature]</i>	4-1-22 07:20	<i>[Signature]</i>	4-1-22 07:20	

PA 22040001

USEPA
Date Shipped:
Carrier/Name:
Airbill No:

CHAIN OF CUSTODY RECORD
Site #: 0129
Contact Name: Tyler Evans
Contact Phone: 978-621-1208

No: 1-033122-140745-0002
Cooler #:
Lab: New England Regional Laboratory
Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
0129-0045		SS-113	PCBS	Soil	3/31/2022	12:55	1	4 oz Jar		4 C
0129-0048		AS2286	PCBS	Lab Sand	3/31/2022	14:00	1	2 oz Jar		4 C

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Reinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>[Signature]</i>	3/31/2022	<i>[Signature]</i>	4-1-22	
				07:30	

PN 22040001

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-033122-140401-0001
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0005	SS-05	ICP Metals	Soil	3/30/2022	12:30	1	4 oz Jar	4 C	
	0129-0016	SS-16	ICP Metals	Soil	3/30/2022	13:05	1	4 oz Jar	4 C	
	0129-0018	SS-18	ICP Metals	Soil	3/30/2022	13:10	1	4 oz Jar	4 C	
	0129-0019	SS-19	ICP Metals	Soil	3/30/2022	13:20	1	4 oz Jar	4 C	
	0129-0022	SS-22	ICP Metals	Soil	3/30/2022	13:10	1	4 oz Jar	4 C	
	0129-0025	SS-25	ICP Metals	Soil	3/30/2022	12:25	1	4 oz Jar	4 C	
	0129-0027	SS-27	ICP Metals	Soil	3/30/2022	12:15	1	4 oz Jar	4 C	
	0129-0028	SS-28	ICP Metals + Hg	Soil	3/30/2022	13:35	1	4 oz Jar	4 C	
	0129-0029	SS-29	ICP Metals	Soil	3/30/2022	13:30	1	4 oz Jar	4 C	
	0129-0030	SS-30	ICP Metals	Soil	3/30/2022	13:25	1	4 oz Jar	4 C	
	0129-0046	SS-128	ICP Metals	Soil	3/31/2022	13:35	1	4 oz Jar	4 C	
	0129-0047	IS8646	ICP Metals	Lab Sand	3/31/2022	14:00	1	2 oz Jar	4 C	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahary at WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Ali Tim</i>	7:30 4-1-22	<i>Tyler Evans</i>	4-1-22 07:30	



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

April 07, 2022

Allyson Bowden - Mail Code 02-2
US EPA New England R1

Project Number: 22040001
Project: JB Paper Co. - Pittsfield, MA
Analysis: Bulk Asbestos Analysis by PLM
Analyst: Scott Clifford

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, INGASBSED2.

Analytical Method: Polarized Light Microscope (PLM) with Dispersion Staining.
All quantities are estimated volume percent.

Date Samples Received by the Laboratory: 04/01/2022

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL
BOUDREAU Digitally signed by
DANIEL BOUDREAU
Date: 2022.04.07
10:48:16 -04'00'

22040001\$ASBES

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0037
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97891
Matrix: Asbestos

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Mineral wool

Client Sample ID: 0129-0038
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97892
Matrix: Asbestos

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose fibers

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0039
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97893
Matrix: Asbestos

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

Client Sample ID: 0129-0040
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97894
Matrix: Asbestos

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0041
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97895
Matrix: Asbestos

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

Client Sample ID: 0129-0042
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97896
Matrix: Asbestos

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0043
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97897
Matrix: Asbestos

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

Client Sample ID: 0129-0044
Date of Collection: 3/30/2022
Date of Extraction: 4/4/22
Date of Analysis: 4/4/22

Lab Sample ID: AB97898
Matrix: Asbestos

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	30	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose also present.

PN 22040001

CHAIN OF CUSTODY RECORD

No: 1-033122-140745-0002

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0002	SS-02	PCBS	Soil	3/30/2022	12:45	1	4 oz Jar	4C	
	0129-0003	SS-03	PCBS	Soil	3/30/2022	12:20	1	4 oz Jar	4C	
	0129-0004	SS-04	PCBS	Soil	3/30/2022	12:25	1	4 oz Jar	4C	
	0129-0005	SS-05	PCBS	Soil	3/30/2022	12:30	1	4 oz Jar	4C	
	0129-0006	SS-06	PCBS	Soil	3/30/2022	12:35	1	4 oz Jar	4C	
	0129-0010	SS-10	PCBS	Soil	3/30/2022	12:40	1	4 oz Jar	4C	
	0129-0011	SS-11	PCBS	Soil	3/30/2022	12:50	1	4 oz Jar	4C	
	0129-0012	SS-12	PCBS	Soil	3/30/2022	12:50	1	4 oz Jar	4C	
	0129-0013	SS-13	PCBS	Soil	3/30/2022	12:55	1	4 oz Jar	4C	
	0129-0014	SS-14	PCBS	Soil	3/30/2022	12:55	1	4 oz Jar	4C	
	0129-0015	SS-15	PCBS	Soil	3/30/2022	13:00	1	4 oz Jar	4C	
	0129-0018	SS-18	PCBS	Soil	3/30/2022	13:10	1	4 oz Jar	4C	
	0129-0023	SS-23	PCBS	Soil	3/30/2022	13:05	1	4 oz Jar	4C	
	0129-0029	SS-29	PCBS	Soil	3/30/2022	13:30	1	4 oz Jar	4C	
	0129-0030	SS-30	PCBS	Soil	3/30/2022	13:25	1	4 oz Jar	4C	
	0129-0031	SS-31	PCBS	Soil	3/30/2022	13:20	1	4 oz Jar	4C	
	0129-0035	SS-35	PCBS	Soil	3/30/2022	13:10	1	4 oz Jar	4C	
	0129-0001	SS-01	PCBS	Soil	3/30/2022	12:15	1	4 oz Jar	4C	
	0129-0028	SS-28	PCBS	Soil	3/30/2022	13:35	1	4 oz Jar	4C	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	<i>[Signature]</i>	4-1-22 07:20	<i>[Signature]</i>	4-1-22 07:20	

PA 22040001

USEPA
Date Shipped:
Carrier/Name:
Airbill No:

CHAIN OF CUSTODY RECORD
Site #: 0129
Contact Name: Tyler Evans
Contact Phone: 978-621-1208

No: 1-033122-140745-0002
Cooler #:
Lab: New England Regional Laboratory
Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
0129-0045		SS-113	PCBS	Soil	3/31/2022	12:55	1	4 oz Jar		4 C
0129-0048		AS2286	PCBS	Lab Sand	3/31/2022	14:00	1	2 oz Jar		4 C

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Reinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>[Signature]</i>	3/31/2022	<i>[Signature]</i>	4-1-22	
				07:30	

PN 22040001

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-033122-140401-0001
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0005	SS-05	ICP Metals	Soil	3/30/2022	12:30	1	4 oz Jar	4 C	
	0129-0016	SS-16	ICP Metals	Soil	3/30/2022	13:05	1	4 oz Jar	4 C	
	0129-0018	SS-18	ICP Metals	Soil	3/30/2022	13:10	1	4 oz Jar	4 C	
	0129-0019	SS-19	ICP Metals	Soil	3/30/2022	13:20	1	4 oz Jar	4 C	
	0129-0022	SS-22	ICP Metals	Soil	3/30/2022	13:10	1	4 oz Jar	4 C	
	0129-0025	SS-25	ICP Metals	Soil	3/30/2022	12:25	1	4 oz Jar	4 C	
	0129-0027	SS-27	ICP Metals	Soil	3/30/2022	12:15	1	4 oz Jar	4 C	
	0129-0028	SS-28	ICP Metals + Hg	Soil	3/30/2022	13:35	1	4 oz Jar	4 C	
	0129-0029	SS-29	ICP Metals	Soil	3/30/2022	13:30	1	4 oz Jar	4 C	
	0129-0030	SS-30	ICP Metals	Soil	3/30/2022	13:25	1	4 oz Jar	4 C	
	0129-0046	SS-128	ICP Metals	Soil	3/31/2022	13:35	1	4 oz Jar	4 C	
	0129-0047	IS8646	ICP Metals	Lab Sand	3/31/2022	14:00	1	2 oz Jar	4 C	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>in Tim</i>	7:30 4-1-22	<i>Robert</i>	4-1-22 07:30	

Laboratory Report

April 07, 2022

Allyson Bowden - Mail Code 02-2

US EPA New England R1

Project Number: 22040002
Project: JB Paper Co. - Pittsfield, MA
Analysis: PCB's in Soil Field Method
Analyst: Scott Clifford

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-FLDPCB4.

Sample extracts were analyzed on a gas chromatograph equipped with an electron capture detector.

Concentrations of PCBs in soil were calculated using an external standard technique.

Analysis for PCB's performed by this field analytical technique is used for tentative identification and semi-quantitation of PCB's in soil, oil, and sediment samples.

Date Samples Received by the Laboratory: 4/1/22

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Results for soil samples are reported on a wet weight basis.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL
BOUDREAU Digitally signed by
DANIEL BOUDREAU
Date: 2022.04.07
13:34:35 -04'00'

22040002\$FPCB

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

JB Paper Co. - Pittsfield, MA

PCB's in Soil Field Method

Lab Sample ID	Client Sample ID	Aroclor-1242 mg/Kg	Aroclor-1254 mg/Kg	Aroclor-1260 mg/Kg
AB97937	SS-32	ND (0.80)	ND (0.50)	ND (0.40)
AB97938	SS-27	ND (5.0)	ND (2.5)	ND (2.0)
AB97939	SS-25	ND (5.0)	ND (1.0)	ND (0.8)
AB97940	SS-33	ND (0.80)	ND (0.50)	ND (0.40)
AB97941	SS-26	ND (2.5)	ND (1.3)	ND (1.0)
AB97942	SS-23	ND (5.0)	ND (2.5)	ND (2.0)
AB97943	SS-22	ND (5.0)	ND (2.5)	ND (2.0)
AB97944	SS-24	ND (5.0)	ND (2.5)	ND (2.0)
AB97945	SS-20	ND (0.80)	ND (0.50)	ND (0.40)
AB97946	SS-21	ND (5.0)	ND (2.5)	ND (2.0)
AB97947	SS-19	ND (5.0)	ND (2.5)	ND (2.0)
AB97948	SS-35	ND (0.80)	ND (0.50)	ND (0.40)
AB97949	SS-07	ND (0.80)	ND (0.50)	ND (0.40)
AB97950	SS-01	ND (0.80)	ND (0.50)	ND (0.40)
AB97951	SS-36	ND (1.6)	ND (1.0)	ND (0.8)
AB97952	SS-09	ND (0.80)	ND (0.50)	ND (0.40)
AB97953	SS-31	ND (2.0)	ND (0.50)	ND (0.40)
AB97954	SS-17	ND (5.0)	ND (2.5)	ND (2.0)
AB97955	SS-16	ND (0.80)	ND (0.50)	ND (0.40)
AB97956	SS-34	ND (0.80)	ND (0.50)	ND (0.40)
AB97957	SS-11	ND (5.0)	ND (2.5)	ND (2.0)
AB97958	SS-11 Lab Dup	ND (5.0)	ND (2.5)	ND (2.0)

JB Paper Co. - Pittsfield, MA

PCB's in Soil Field Method

Lab Sample ID Client Sample ID

Laboratory Report

April 07, 2022

Allyson Bowden - Mail Code 02-2
US EPA New England R1

Project Number: 22040002
Project: JB Paper Co. - Pittsfield, MA
Analysis: Field Analysis of Metals by XRF
EPA Chemist: Scott Clifford

Date Samples Received by the Laboratory: 04/01/2022

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, SOP-FLDNiton7/OI.

The sample preparation and analysis SOP used was one of the following: FLDOLYMPUS6, or FLDNITON7,

Samples were analyzed using one of the following:

Niton XL3t 600 x-ray fluorescence (XRF) instrument equipped with a 50 kV X-ray tube and a high resolution Si pin detector.

Olympus Delta DP 4050 x-ray fluorescence (XRF) instrument equipped with a 50 kV X-ray tube and a high resolution silicon drift detector.

Innovex Alpha 4000 x-ray fluorescence (XRF) instrument equipped with a 40 kV X-ray tube and a high resolution Si pin detector.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL

BOUDREAU

Digitally signed by
DANIEL BOUDREAU

Date: 2022.04.07

13:36:01 -04'00'

22040002\$FXRF

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-32	Lab Sample ID:	AB97899
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	18	18	
7439-92-1	Lead	56	10	
7440-38-2	Arsenic	ND	9.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	480	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-27	Lab Sample ID:	AB97900
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	560	40	
7439-92-1	Lead	1700	10	
7440-38-2	Arsenic	190	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	170	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-27 Lab Dup	Lab Sample ID:	AB97901
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	620	40	
7439-92-1	Lead	2000	10	
7440-38-2	Arsenic	210	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	150	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-25	Lab Sample ID:	AB97902
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	130	40	
7439-92-1	Lead	270	10	
7440-38-2	Arsenic	52	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	870	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-33	Lab Sample ID:	AB97903
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	340	40	
7439-92-1	Lead	120	10	
7440-38-2	Arsenic	42	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	850	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-26	Lab Sample ID:	AB97904
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	35	
7439-92-1	Lead	130	10	
7440-38-2	Arsenic	39	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	59	59	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-23	Lab Sample ID:	AB97905
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	27	
7439-92-1	Lead	98	10	
7440-38-2	Arsenic	17	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	5.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	21	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-22	Lab Sample ID:	AB97906
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	45	40	
7439-92-1	Lead	550	10	
7440-38-2	Arsenic	73	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	25	25	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-24	Lab Sample ID:	AB97907
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	150	40	
7439-92-1	Lead	110	10	
7440-38-2	Arsenic	40	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	24	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-20	Lab Sample ID:	AB97908
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	45	40	
7439-92-1	Lead	58	10	
7440-38-2	Arsenic	ND	9.0	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	1900	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-21	Lab Sample ID:	AB97909
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	30	30	
7439-92-1	Lead	76	10	
7440-38-2	Arsenic	14	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	720	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-19	Lab Sample ID:	AB97910
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	78	40	
7439-92-1	Lead	250	10	
7440-38-2	Arsenic	30	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	11	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	1500	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-35	Lab Sample ID:	AB97911
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	39	39	
7439-92-1	Lead	19	10	
7440-38-2	Arsenic	6.0	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	470	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-07	Lab Sample ID:	AB97912
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	28	28	
7439-92-1	Lead	110	10	
7440-38-2	Arsenic	ND	12	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	7.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	1300	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-01	Lab Sample ID:	AB97913
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	19	
7439-92-1	Lead	21	10	
7440-38-2	Arsenic	ND	6.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	500	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-36	Lab Sample ID:	AB97914
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	30	30	
7439-92-1	Lead	53	10	
7440-38-2	Arsenic	9.0	9.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	270	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-09	Lab Sample ID:	AB97915
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	42	40	
7439-92-1	Lead	88	10	
7440-38-2	Arsenic	ND	11	
7440-22-4	Silver	6.0	6.0	
7440-43-9	Cadmium	10	10	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	1600	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-31	Lab Sample ID:	AB97916
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	45	40	
7439-92-1	Lead	66	10	
7440-38-2	Arsenic	10	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	590	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-17	Lab Sample ID:	AB97917
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	28	
7439-92-1	Lead	85	5.0	
7440-38-2	Arsenic	12	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	24	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-16	Lab Sample ID:	AB97918
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	48	40	
7439-92-1	Lead	44	10	
7440-38-2	Arsenic	10	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	420	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-34	Lab Sample ID:	AB97919
Date of Collection:	3/30/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	49	40	
7439-92-1	Lead	89	10	
7440-38-2	Arsenic	ND	9.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	150	148	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-23	Lab Sample ID:	AB97920
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	32	
7439-92-1	Lead	81	10	
7440-38-2	Arsenic	25	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	5.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	19	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-11	Lab Sample ID:	AB97921
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/30/2022	Amount Prepared:	N/A
Date of Analysis:	3/30/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	45	40	
7439-92-1	Lead	120	10	
7440-38-2	Arsenic	25	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	97	97	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-14	Lab Sample ID:	AB97922
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	31	
7439-92-1	Lead	47	10	
7440-38-2	Arsenic	ND	7.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	21	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-29	Lab Sample ID:	AB97923
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	180	40	
7439-92-1	Lead	1200	10	
7440-38-2	Arsenic	53	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	15	
7782-49-2	Selenium	ND	7.0	
7740-39-3	Barium	2200	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-29 Lab Dup	Lab Sample ID:	AB97924
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	130	40	
7439-92-1	Lead	750	10	
7440-38-2	Arsenic	110	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	16	
7782-49-2	Selenium	ND	6.0	
7740-39-3	Barium	1400	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-13	Lab Sample ID:	AB97925
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	28	
7439-92-1	Lead	88	10	
7440-38-2	Arsenic	13	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	21	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-02	Lab Sample ID:	AB97926
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	120	40	
7439-92-1	Lead	130	10	
7440-38-2	Arsenic	25	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	11	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	1700	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-10	Lab Sample ID:	AB97927
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	32	
7439-92-1	Lead	150	10	
7440-38-2	Arsenic	ND	12	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	24	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-06	Lab Sample ID:	AB97928
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	32	
7439-92-1	Lead	120	10	
7440-38-2	Arsenic	23	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	18	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-15	Lab Sample ID:	AB97929
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	59	40	
7439-92-1	Lead	65	10	
7440-38-2	Arsenic	14	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	570	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-30	Lab Sample ID:	AB97930
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	180	40	
7439-92-1	Lead	730	10	
7440-38-2	Arsenic	32	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	12	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	2600	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-04	Lab Sample ID:	AB97931
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	91	40	
7439-92-1	Lead	100	10	
7440-38-2	Arsenic	22	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	20	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-05	Lab Sample ID:	AB97932
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	160	40	
7439-92-1	Lead	260	10	
7440-38-2	Arsenic	22	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	11	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	210	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-03	Lab Sample ID:	AB97933
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	110	40	
7439-92-1	Lead	270	10	
7440-38-2	Arsenic	20	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	12	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	2300	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-12	Lab Sample ID:	AB97934
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	32	
7439-92-1	Lead	110	10	
7440-38-2	Arsenic	15	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	330	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-28	Lab Sample ID:	AB97935
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	81	40	
7439-92-1	Lead	120	10	
7440-38-2	Arsenic	26	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	49	6.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	230	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-18	Lab Sample ID:	AB97936
Date of Collection:	3/31/2022	Matrix:	Soil
Date of Preparation:	3/31/2022	Amount Prepared:	N/A
Date of Analysis:	3/31/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	33	
7439-92-1	Lead	450	10	
7440-38-2	Arsenic	35	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	310	150	



Laboratory Report

July 20, 2022

Allyson Bowden - Mail Code 02-2
US EPA New England R1

Project Number: 22060033
Project: JB Paper Co. - Pittsfield, MA
Analysis: Metals in Soil by ICP-OES
EPA Chemist: Michael Dowling

Date Samples Received by the Laboratory: 06/23/2022

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-OPTIMAS1.

Samples were prepared following the EPA Region I SOP, EIASOP-INGMETALSPREP8

Preparation and analysis SOP's are based on "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, Revision 2, Final Update III, Methods 3050B and 6010B," respectively. Samples were analyzed for Total Recoverable Metals using a Perkin Elmer Dual View Inductively Coupled Plasma - Optical Emission Spectrometer.

Samples were prepared and analyzed by ESAT contractors working at the USEPA New England Laboratory.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

PETER PHILBROOK
Digitally signed by PETER
PHILBROOK
Date: 2022.07.20 14:22:25 -04'00'

22060033\$METMS_PE

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0114
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99710
Matrix: Soil PE
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	7.7	1.0	
7429-90-5	Aluminum	2600	11	
7440-38-2	Arsenic	50	2.0	
7440-39-3	Barium	7.3	2.0	
7440-41-7	Beryllium	15	0.80	
7440-70-2	Calcium	7000	10	
7440-43-9	Cadmium	ND	1.0	
7440-48-4	Cobalt	53	2.0	
7440-47-3	Chromium	39	2.0	
7440-50-8	Copper	18	2.0	
7439-89-6	Iron	5300	4.0	
7439-95-4	Magnesium	460	10	
7439-96-5	Manganese	36	2.0	
7440-02-0	Nickel	ND	2.0	
7439-92-1	Lead	7.0	2.0	
7440-36-0	Antimony	30	2.0	
7782-49-2	Selenium	16	4.0	
7440-28-0	Thallium	ND	2.0	
7440-62-2	Vanadium	51	2.0	
7440-66-6	Zinc	5.5	2.0	

Comments: Results reported mg/kg, as received.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0061
Date of Collection: 6/21/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99711
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 9
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	9.2	
7429-90-5	Aluminum	3900	100	
7440-38-2	Arsenic	30	18	
7440-39-3	Barium	12000	18	
7440-41-7	Beryllium	ND	7.3	
7440-70-2	Calcium	14000	92	
7440-43-9	Cadmium	63	9.2	
7440-48-4	Cobalt	ND	18	
7440-47-3	Chromium	110	18	
7440-50-8	Copper	15000	18	
7439-89-6	Iron	230000	37	
7439-95-4	Magnesium	13000	92	
7439-96-5	Manganese	1200	18	
7440-02-0	Nickel	78	18	
7439-92-1	Lead	12000	18	
7440-36-0	Antimony	ND	18	J1
7782-49-2	Selenium	ND	37	J1
7440-28-0	Thallium	ND	18	
7440-62-2	Vanadium	35	18	
7440-66-6	Zinc	16000	18	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0063
Date of Collection: 6/21/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99712
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.2	
7429-90-5	Aluminum	7600	57	
7440-38-2	Arsenic	15	10	
7440-39-3	Barium	8100	10	
7440-41-7	Beryllium	ND	4.2	
7440-70-2	Calcium	52000	52	
7440-43-9	Cadmium	ND	5.2	
7440-48-4	Cobalt	11	10	
7440-47-3	Chromium	120	10	
7440-50-8	Copper	210	10	
7439-89-6	Iron	130000	21	J3
7439-95-4	Magnesium	5800	52	
7439-96-5	Manganese	800	10	
7440-02-0	Nickel	29	10	
7439-92-1	Lead	2600	10	
7440-36-0	Antimony	ND	11	
7782-49-2	Selenium	ND	21	
7440-28-0	Thallium	ND	10	
7440-62-2	Vanadium	34	10	
7440-66-6	Zinc	14000	10	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0069
Date of Collection: 6/21/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99713
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	6.8	
7429-90-5	Aluminum	6200	74	
7440-38-2	Arsenic	15	14	
7440-39-3	Barium	8700	14	
7440-41-7	Beryllium	ND	5.4	
7440-70-2	Calcium	43000	68	
7440-43-9	Cadmium	ND	6.8	
7440-48-4	Cobalt	ND	14	
7440-47-3	Chromium	52	14	
7440-50-8	Copper	3400	14	
7439-89-6	Iron	160000	27	
7439-95-4	Magnesium	4000	68	
7439-96-5	Manganese	960	14	
7440-02-0	Nickel	61	14	
7439-92-1	Lead	1300	14	
7440-36-0	Antimony	ND	14	
7782-49-2	Selenium	ND	27	
7440-28-0	Thallium	ND	14	
7440-62-2	Vanadium	80	14	
7440-66-6	Zinc	13000	14	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0073
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99714
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 4
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	4.9	
7429-90-5	Aluminum	5100	54	
7440-38-2	Arsenic	59	9.8	
7440-39-3	Barium	3200	9.8	
7440-41-7	Beryllium	ND	3.9	
7440-70-2	Calcium	15000	49	
7440-43-9	Cadmium	ND	4.9	
7440-48-4	Cobalt	ND	9.8	
7440-47-3	Chromium	88	9.8	
7440-50-8	Copper	160	9.8	
7439-89-6	Iron	120000	20	
7439-95-4	Magnesium	3100	49	
7439-96-5	Manganese	820	9.8	
7440-02-0	Nickel	55	9.8	
7439-92-1	Lead	290	9.8	
7440-36-0	Antimony	ND	9.8	
7782-49-2	Selenium	ND	20	
7440-28-0	Thallium	ND	9.8	
7440-62-2	Vanadium	59	9.8	
7440-66-6	Zinc	3100	9.8	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
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JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0075
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99715
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 2
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	2.1	
7429-90-5	Aluminum	10000	23	
7440-38-2	Arsenic	7.1	4.2	
7440-39-3	Barium	1700	4.2	
7440-41-7	Beryllium	ND	1.7	
7440-70-2	Calcium	65000	21	
7440-43-9	Cadmium	ND	2.1	
7440-48-4	Cobalt	6.9	4.2	
7440-47-3	Chromium	16	4.2	
7440-50-8	Copper	42	4.2	
7439-89-6	Iron	40000	8.3	
7439-95-4	Magnesium	4400	21	
7439-96-5	Manganese	540	4.2	
7440-02-0	Nickel	21	4.2	
7439-92-1	Lead	44	4.2	
7440-36-0	Antimony	ND	4.2	
7782-49-2	Selenium	ND	8.3	
7440-28-0	Thallium	ND	4.2	
7440-62-2	Vanadium	27	4.2	
7440-66-6	Zinc	1600	4.2	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0076
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99716
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 2
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	2.1	
7429-90-5	Aluminum	11000	23	
7440-38-2	Arsenic	6.4	4.2	
7440-39-3	Barium	1400	4.2	
7440-41-7	Beryllium	ND	1.7	
7440-70-2	Calcium	65000	21	
7440-43-9	Cadmium	ND	2.1	
7440-48-4	Cobalt	7.2	4.2	
7440-47-3	Chromium	17	4.2	
7440-50-8	Copper	36	4.2	
7439-89-6	Iron	32000	8.5	
7439-95-4	Magnesium	4400	21	
7439-96-5	Manganese	510	4.2	
7440-02-0	Nickel	24	4.2	
7439-92-1	Lead	40	4.2	
7440-36-0	Antimony	ND	4.2	
7782-49-2	Selenium	ND	8.5	
7440-28-0	Thallium	ND	4.2	
7440-62-2	Vanadium	27	4.2	
7440-66-6	Zinc	1100	4.2	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
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JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0092
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99717
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 2
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	2.2	
7429-90-5	Aluminum	5600	24	
7440-38-2	Arsenic	330	4.4	
7440-39-3	Barium	2600	4.4	
7440-41-7	Beryllium	ND	1.8	
7440-70-2	Calcium	4200	22	
7440-43-9	Cadmium	ND	2.2	
7440-48-4	Cobalt	4.8	4.4	
7440-47-3	Chromium	80	4.4	
7440-50-8	Copper	780	4.4	
7439-89-6	Iron	50000	8.9	
7439-95-4	Magnesium	1800	22	
7439-96-5	Manganese	340	4.4	
7440-02-0	Nickel	20	4.4	
7439-92-1	Lead	120	4.4	
7440-36-0	Antimony	ND	4.4	
7782-49-2	Selenium	ND	8.9	
7440-28-0	Thallium	ND	4.4	
7440-62-2	Vanadium	32	4.4	
7440-66-6	Zinc	1500	4.4	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0103
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99718
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 3
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	2.9	
7429-90-5	Aluminum	2300	32	
7440-38-2	Arsenic	46	5.9	
7440-39-3	Barium	3000	5.9	
7440-41-7	Beryllium	ND	2.4	
7440-70-2	Calcium	3400	29	
7440-43-9	Cadmium	ND	2.9	
7440-48-4	Cobalt	ND	5.9	
7440-47-3	Chromium	58	5.9	
7440-50-8	Copper	120	5.9	
7439-89-6	Iron	75000	12	
7439-95-4	Magnesium	2400	29	
7439-96-5	Manganese	470	5.9	
7440-02-0	Nickel	58	5.9	
7439-92-1	Lead	1200	5.9	
7440-36-0	Antimony	ND	5.9	
7782-49-2	Selenium	ND	12	
7440-28-0	Thallium	ND	5.9	
7440-62-2	Vanadium	79	5.9	
7440-66-6	Zinc	2400	5.9	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0110
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99719
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	5.6	
7429-90-5	Aluminum	7200	61	
7440-38-2	Arsenic	20	11	
7440-39-3	Barium	4300	11	
7440-41-7	Beryllium	ND	4.4	
7440-70-2	Calcium	24000	56	
7440-43-9	Cadmium	ND	5.6	
7440-48-4	Cobalt	ND	11	
7440-47-3	Chromium	40	11	
7440-50-8	Copper	200	11	
7439-89-6	Iron	92000	22	
7439-95-4	Magnesium	8000	56	
7439-96-5	Manganese	760	11	
7440-02-0	Nickel	63	11	
7439-92-1	Lead	280	11	
7440-36-0	Antimony	ND	11	
7782-49-2	Selenium	ND	22	
7440-28-0	Thallium	ND	11	
7440-62-2	Vanadium	170	11	
7440-66-6	Zinc	16000	11	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Metals in Soil by ICP-OES

Client Sample ID: 0129-0113
Date of Collection: 6/22/2022
Date of Preparation: 7/08/2022
Date of Analysis: 7/11/2022
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: N/A
Final Volume: 50 mL

Lab Sample ID: AB99720
Matrix: Soil
Amount Prepared: N/A
Percent Solids: N/A
Extract Dilution: 3
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-22-4	Silver	ND	3.6	
7429-90-5	Aluminum	15000	39	
7440-38-2	Arsenic	24	7.1	
7440-39-3	Barium	5900	7.1	
7440-41-7	Beryllium	ND	2.9	
7440-70-2	Calcium	34000	36	
7440-43-9	Cadmium	4.6	3.6	
7440-48-4	Cobalt	16	7.1	
7440-47-3	Chromium	190	7.1	
7440-50-8	Copper	200	7.1	
7439-89-6	Iron	59000	14	
7439-95-4	Magnesium	44000	36	
7439-96-5	Manganese	770	7.1	
7440-02-0	Nickel	430	7.1	
7439-92-1	Lead	690	7.1	
7440-36-0	Antimony	ND	7.1	
7782-49-2	Selenium	ND	14	
7440-28-0	Thallium	ND	7.1	
7440-62-2	Vanadium	870	7.1	
7440-66-6	Zinc	8000	7.1	

Comments: Results reported mg/kg, dry weight units.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Laboratory Reagent Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Preparation:	7/08/2022	Amount Prepared:	N/A
Date of Analysis:	7/11/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	50 mL		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
7440-22-4	Silver	ND	10	
7429-90-5	Aluminum	ND	110	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8.0	
7440-70-2	Calcium	ND	100	
7440-43-9	Cadmium	ND	10	
7440-48-4	Cobalt	ND	20	
7440-47-3	Chromium	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7439-92-1	Lead	ND	20	
7440-36-0	Antimony	ND	20	
7782-49-2	Selenium	ND	40	
7440-28-0	Thallium	ND	20	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	20	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

MATRIX SPIKE (MS) RECOVERY

Sample ID: AB99711

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Antimony	102	ND	31.0	31	75 - 125
Arsenic	102	30.0	130	98	75 - 125
Barium	102	12000	11800	R	75 - 125
Beryllium	41.0	ND	42.0	102	75 - 125
Cadmium	51.0	63.0	119	110	75 - 125
Chromium	102	110	215	103	75 - 125
Cobalt	102	ND	119	117	75 - 125
Copper	102	15000	3500	R	75 - 125
Lead	102	12000	14200	R	75 - 125
Manganese	102	1200	1260	R	75 - 125
Nickel	102	78.0	199	119	75 - 125
Selenium	102	ND	73.0	72	75 - 125
Silver	20.0	ND	22.0	110	75 - 125
Thallium	102	ND	92.0	91	75 - 125
Vanadium	102	35.0	132	95	75 - 125
Zinc	102	16000	13800	R	75 - 125

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Laboratory Duplicate Results

Sample ID: AB99712

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aluminum	7600	9100	18	30
Antimony	ND	ND	NC	30
Arsenic	15.0	13.0	14	30
Barium	8100	8700	7.1	30
Beryllium	ND	ND	NC	30
Cadmium	ND	ND	NC	30
Calcium	52000	60000	14	30
Chromium	120	150	22	30
Cobalt	11.0	11.0	0	30
Copper	210	270	25	30
Iron	130000	70000	60	30
Lead	2600	3500	30	30
Magnesium	5800	6500	11	30
Manganese	800	700	13	30
Nickel	29.0	34.0	16	30
Selenium	ND	ND	NC	30
Silver	ND	ND	NC	30
Thallium	ND	ND	NC	30
Vanadium	34.0	35.0	2.9	30
Zinc	14000	15000	6.9	30

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Aluminum	1000	978	98	85 - 115
Antimony	1000	985	99	85 - 115
Arsenic	1000	992	99	85 - 115
Barium	1000	1010	101	85 - 115
Beryllium	400	392	98	85 - 115
Cadmium	500	494	99	85 - 115
Calcium	10000	10200	102	85 - 115
Chromium	1000	988	99	85 - 115
Cobalt	1000	995	100	85 - 115
Copper	1000	1030	103	85 - 115
Iron	1000	993	99	85 - 115
Lead	1000	981	98	85 - 115
Magnesium	10000	9940	99	85 - 115
Manganese	1000	1000	100	85 - 115
Nickel	1000	989	99	85 - 115
Selenium	1000	973	97	85 - 115
Silver	200	193	97	85 - 115
Thallium	1000	972	97	85 - 115
Vanadium	1000	991	99	85 - 115
Zinc	1000	994	99	85 - 115

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

JB Paper Co. - Pittsfield, MA

Solid Laboratory Control Sample (LCS) Results

PARAMETER	LCS RESULTS mg/Kg	CONTROL LIMITS mg/Kg
Aluminum	8690	4050 - 12200
Antimony	84.8	26.9 - 336
Arsenic	164	119 - 221
Barium	182	138 - 229
Beryllium	113	87.0 - 145
Cadmium	87.9	67.1 - 112
Calcium	4480	3490 - 6120
Chromium	100	70.6 - 131
Cobalt	83.2	63.6 - 106
Copper	150	112 - 186
Iron	14600	4920 - 23200
Lead	133	101 - 179
Magnesium	2370	1460 - 3240
Manganese	630	505 - 791
Nickel	67.5	47.8 - 88.8
Selenium	176	124 - 240
Silver	48.1	35.1 - 65.2
Thallium	85.0	57.9 - 118
Vanadium	153	111 - 196
Zinc	222	159 - 296

Comments:

Samples in Batch: AB99710, AB99711, AB99712, AB99713, AB99714, AB99715, AB99716, AB99717, AB99718, AB99719, AB99720

PN 22060033

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-062222-135339-0005
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0114	IS8207	ICP Metals	Lab Sand	6/22/2022	12:00	1	4 oz Jar	4 C	
	0129-0061	SS-40	ICP Metals	Soil	6/21/2022	14:25	1	4 oz Jar	4 C	
	0129-0063	SS-42	ICP Metals	Soil	6/21/2022	14:22	1	4 oz Jar	4 C	
	0129-0069	SS-47	ICP Metals	Soil	6/21/2022	15:20	1	4 oz Jar	4 C	
	0129-0073	SS-203	ICP Metals	Soil	6/22/2022	08:25	1	4 oz Jar	4 C	
	0129-0075	SS-205	ICP Metals	Soil	6/22/2022	08:30	1	4 oz Jar	4 C	
	0129-0076	SS-305	ICP Metals	Soil	6/22/2022	08:30	1	4 oz Jar	4 C	
	0129-0092	SS-220D	ICP Metals	Soil	6/22/2022	09:45	1	4 oz Jar	4 C	
	0129-0103	SS-231	ICP Metals	Soil	6/22/2022	09:15	1	4 oz Jar	4 C	
	0129-0110	SS-238	ICP Metals	Soil	6/22/2022	08:25	1	4 oz Jar	4 C	
	0129-0113	SS-241	ICP Metals	Soil	6/22/2022	08:13	1	4 oz Jar	4 C	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		6/23/22 12:01		6-23-22 12:01	400

PN 22060033

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-062222-133707-0004
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0050	ACM-09	Asbestos/PLM	Asbestos	6/21/2022	12:30	1	Ziplock	None	
	0129-0051	ACM-10	Asbestos/PLM	Asbestos	6/21/2022	12:33	1	Ziplock	None	
	0129-0052	ACM-11	Asbestos/PLM	Asbestos	6/21/2022	12:35	1	Ziplock	None	
	0129-0053	ACM-12	Asbestos/PLM	Asbestos	6/21/2022	12:38	1	Ziplock	None	
	0129-0054	ACM-13	Asbestos/PLM	Asbestos	6/21/2022	12:42	1	Ziplock	None	
	0129-0055	ACM-13	Asbestos/PLM	Asbestos	6/21/2022	12:42	1	Ziplock	None	
	0129-0056	ACM-14	Asbestos/PLM	Asbestos	6/21/2022	12:48	1	Ziplock	None	
	0129-0057	ACM-15	Asbestos/PLM	Asbestos	6/21/2022	12:50	1	Ziplock	None	
	0129-0058	ACM-16	Asbestos/PLM	Asbestos	6/21/2022	13:00	1	Ziplock	None	
	0129-0059	ACM-17	Asbestos/PLM	Asbestos	6/21/2022	13:15	1	Ziplock	None	
	0129-0060	ACM-18	Asbestos/PLM	Asbestos	6/21/2022	13:20	1	Ziplock	None	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Mally Weston</i>	6/23/21/201	<i>Paul J Esht</i>	6-23-22 12:01.	4°C

Laboratory Report

July 06, 2022

Allyson Bowden - Mail Code 02-2

US EPA New England R1

Project Number: 22060033

Project: JB Paper Co. - Pittsfield, MA

Analysis: Bulk Asbestos Analysis by PLM

Analyst: Scott Clifford

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, INGASBSED2.

Analytical Method: Polarized Light Microscope (PLM) with Dispersion Staining.

All quantities are estimated volume percent.

Date Samples Received by the Laboratory: 06/23/2022

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL

BOUDREAU

Digitally signed by
DANIEL BOUDREAU

Date: 2022.07.06
15:54:25 -04'00'

22060033\$ASBES

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0050
Date of Collection: 6/21/2022
Date of Extraction: 7/6/22
Date of Analysis: 7/6/22

Lab Sample ID: AB99699
Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

Client Sample ID: 0129-0051
Date of Collection: 6/21/2022
Date of Extraction: 7/6/22
Date of Analysis: 7/6/22

Lab Sample ID: AB99700
Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0052
 Date of Collection: 6/21/2022
 Date of Extraction: 7/6/22
 Date of Analysis: 7/6/22

Lab Sample ID: AB99701
 Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments:

Client Sample ID: 0129-0053
 Date of Collection: 6/21/2022
 Date of Extraction: 7/6/22
 Date of Analysis: 7/6/22

Lab Sample ID: AB99702
 Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments:

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0054
 Date of Collection: 6/21/2022
 Date of Extraction: 7/6/22
 Date of Analysis: 7/6/22

Lab Sample ID: AB99703
 Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

Client Sample ID: 0129-0055
 Date of Collection: 6/21/2022
 Date of Extraction: 7/6/22
 Date of Analysis: 7/6/22

Lab Sample ID: AB99704
 Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0056
 Date of Collection: 6/21/2022
 Date of Extraction: 7/6/22
 Date of Analysis: 7/6/22

Lab Sample ID: AB99705
 Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments:

Client Sample ID: 0129-0057
 Date of Collection: 6/21/2022
 Date of Extraction: 7/6/22
 Date of Analysis: 7/6/22

Lab Sample ID: AB99706
 Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments:

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0058
Date of Collection: 6/21/2022
Date of Extraction: 7/6/22
Date of Analysis: 7/6/22

Lab Sample ID: AB99707
Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments:

Client Sample ID: 0129-0059
Date of Collection: 6/21/2022
Date of Extraction: 7/6/22
Date of Analysis: 7/6/22

Lab Sample ID: AB99708
Matrix: Solid

CAS Number	Compound	Concentration %	RL %	Qualifier
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments:

JB Paper Co. - Pittsfield, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: 0129-0060
Date of Collection: 6/21/2022
Date of Extraction: 7/6/22
Date of Analysis: 7/6/22

Lab Sample ID: AB99709
Matrix: Solid

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Tar paper

Page 1 of 1 P N 22060033

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-062222-135339-0005
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0114	IS8207	ICP Metals	Lab Sand	6/22/2022	12:00	1	4 oz Jar	4 C	
	0129-0061	SS-40	ICP Metals	Soil	6/21/2022	14:25	1	4 oz Jar	4 C	
	0129-0063	SS-42	ICP Metals	Soil	6/21/2022	14:22	1	4 oz Jar	4 C	
	0129-0069	SS-47	ICP Metals	Soil	6/21/2022	15:20	1	4 oz Jar	4 C	
	0129-0073	SS-203	ICP Metals	Soil	6/22/2022	08:25	1	4 oz Jar	4 C	
	0129-0075	SS-205	ICP Metals	Soil	6/22/2022	08:30	1	4 oz Jar	4 C	
	0129-0076	SS-305	ICP Metals	Soil	6/22/2022	08:30	1	4 oz Jar	4 C	
	0129-0092	SS-220D	ICP Metals	Soil	6/22/2022	09:45	1	4 oz Jar	4 C	
	0129-0103	SS-231	ICP Metals	Soil	6/22/2022	09:15	1	4 oz Jar	4 C	
	0129-0110	SS-238	ICP Metals	Soil	6/22/2022	08:25	1	4 oz Jar	4 C	
	0129-0113	SS-241	ICP Metals	Soil	6/22/2022	08:13	1	4 oz Jar	4 C	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		6/23/22 12:01		6-23-22 12:01	400

PN 22060033

USEPA
 Date Shipped:
 Carrier Name:
 Airbill No:

CHAIN OF CUSTODY RECORD
 Site #: 0129
 Contact Name: Tyler Evans
 Contact Phone: 978-621-1208

No: 1-062222-133707-0004
 Cooler #:
 Lab: New England Regional Laboratory
 Lab Phone: 617-918-8940

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0129-0050	ACM-09	Asbestos/PLM	Asbestos	6/21/2022	12:30	1	Ziplock	None	
	0129-0051	ACM-10	Asbestos/PLM	Asbestos	6/21/2022	12:33	1	Ziplock	None	
	0129-0052	ACM-11	Asbestos/PLM	Asbestos	6/21/2022	12:35	1	Ziplock	None	
	0129-0053	ACM-12	Asbestos/PLM	Asbestos	6/21/2022	12:38	1	Ziplock	None	
	0129-0054	ACM-13	Asbestos/PLM	Asbestos	6/21/2022	12:42	1	Ziplock	None	
	0129-0055	ACM-13	Asbestos/PLM	Asbestos	6/21/2022	12:42	1	Ziplock	None	
	0129-0056	ACM-14	Asbestos/PLM	Asbestos	6/21/2022	12:48	1	Ziplock	None	
	0129-0057	ACM-15	Asbestos/PLM	Asbestos	6/21/2022	12:50	1	Ziplock	None	
	0129-0058	ACM-16	Asbestos/PLM	Asbestos	6/21/2022	13:00	1	Ziplock	None	
	0129-0059	ACM-17	Asbestos/PLM	Asbestos	6/21/2022	13:15	1	Ziplock	None	
	0129-0060	ACM-18	Asbestos/PLM	Asbestos	6/21/2022	13:20	1	Ziplock	None	

Special Instructions: Please send results to OSC Bowden at Bowden.Alyson@epa.gov and Bill Mahany@WestonSolutions.com

SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Mally Weston</i>	6/23/21/201	<i>Paul J. Esht</i>	6-23-22 12:01.	4°C

Laboratory Report

July 12, 2022

Allyson Bowden - Mail Code 02-2
US EPA New England R1

Project Number: 22060034
Project: JB Paper Co. - Pittsfield, MA
Analysis: Field Analysis of Metals by XRF
EPA Chemist: Scott Clifford

Date Samples Received by the Laboratory: 06/23/2022

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, SOP-FLDNiton7/OI.

The sample preparation and analysis SOP used was one of the following: FLDOLYMPUS6, or FLDNITON7,

Samples were analyzed using one of the following:

Niton XL3t 600 x-ray fluorescence (XRF) instrument equipped with a 50 kV X-ray tube and a high resolution Si pin detector.

Olympus Delta DP 4050 x-ray fluorescence (XRF) instrument equipped with a 50 kV X-ray tube and a high resolution silicon drift detector.

Innovex Alpha 4000 x-ray fluorescence (XRF) instrument equipped with a 40 kV X-ray tube and a high resolution Si pin detector.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL
BOUDREAU

Digitally signed by
DANIEL BOUDREAU
Date: 2022.07.12
09:10:36 -04'00'

22060034\$FXRF

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

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Field Analysis of Metals by XRF

Client Sample ID:	SS-43	Lab Sample ID:	AB99721
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	190	40	
7439-92-1	Lead	410	10	
7440-38-2	Arsenic	34	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	10	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	2000	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-44	Lab Sample ID:	AB99722
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	240	40	
7439-92-1	Lead	320	10	
7440-38-2	Arsenic	97	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	340	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-45	Lab Sample ID:	AB99723
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	200	40	
7439-92-1	Lead	270	10	
7440-38-2	Arsenic	34	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	10	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	1700	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-145	Lab Sample ID:	AB99724
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	240	40	
7439-92-1	Lead	400	10	
7440-38-2	Arsenic	75	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	1300	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-40	Lab Sample ID:	AB99725
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	230	40	
7439-92-1	Lead	2300	10	
7440-38-2	Arsenic	76	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	9.0	
7740-39-3	Barium	3800	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-40 Lab Dup	Lab Sample ID:	AB99726
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	190	40	
7439-92-1	Lead	4100	10	
7440-38-2	Arsenic	390	3.0	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	8.0	
7439-97-6	Mercury	ND	27	
7782-49-2	Selenium	ND	14	
7740-39-3	Barium	3700	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-41	Lab Sample ID:	AB99727
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	110	40	
7439-92-1	Lead	180	10	
7440-38-2	Arsenic	36	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	230	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-42	Lab Sample ID:	AB99728
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	410	40	
7439-92-1	Lead	2800	10	
7440-38-2	Arsenic	120	3.0	
7440-22-4	Silver	ND	7.0	
7440-43-9	Cadmium	ND	8.0	
7439-97-6	Mercury	ND	18	
7782-49-2	Selenium	ND	9.0	
7740-39-3	Barium	7500	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-42 Lab Dup	Lab Sample ID:	AB99729
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	310	40	
7439-92-1	Lead	1500	10	
7440-38-2	Arsenic	ND	47	
7440-22-4	Silver	ND	7.0	
7440-43-9	Cadmium	ND	8.0	
7439-97-6	Mercury	ND	21	
7782-49-2	Selenium	ND	8.0	
7740-39-3	Barium	8600	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-47	Lab Sample ID:	AB99730
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	85	40	
7439-92-1	Lead	400	10	
7440-38-2	Arsenic	ND	20	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	12	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	2400	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-46	Lab Sample ID:	AB99731
Date of Collection:	6/21/2022	Matrix:	Soil
Date of Preparation:	6/21/2022	Amount Prepared:	N/A
Date of Analysis:	6/21/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	120	40	
7439-92-1	Lead	310	10	
7440-38-2	Arsenic	37	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	11	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	1200	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-200	Lab Sample ID:	AB99732
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	240	40	
7439-92-1	Lead	130	10	
7440-38-2	Arsenic	35	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	2200	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-201	Lab Sample ID:	AB99733
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	270	40	
7439-92-1	Lead	270	10	
7440-38-2	Arsenic	35	3.0	
7440-22-4	Silver	ND	7.0	
7440-43-9	Cadmium	ND	8.0	
7439-97-6	Mercury	ND	24	
7782-49-2	Selenium	ND	10	
7740-39-3	Barium	4400	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-202	Lab Sample ID:	AB99734
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	330	40	
7439-92-1	Lead	120	10	
7440-38-2	Arsenic	47	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	730	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-203	Lab Sample ID:	AB99735
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	410	40	
7439-92-1	Lead	380	10	
7440-38-2	Arsenic	140	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	310	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-204	Lab Sample ID:	AB99736
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	79	40	
7439-92-1	Lead	160	10	
7440-38-2	Arsenic	24	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	720	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-205	Lab Sample ID:	AB99737
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	28	28	
7439-92-1	Lead	36	10	
7440-38-2	Arsenic	8.0	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	860	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-305	Lab Sample ID:	AB99738
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	20	
7439-92-1	Lead	26	10	
7440-38-2	Arsenic	9.0	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	940	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-235	Lab Sample ID:	AB99739
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	84	40	
7439-92-1	Lead	200	10	
7440-38-2	Arsenic	40	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	280	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-235 Lab Dup	Lab Sample ID:	AB99740
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	65	40	
7439-92-1	Lead	160	10	
7440-38-2	Arsenic	41	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	24	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-236	Lab Sample ID:	AB99741
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	56	40	
7439-92-1	Lead	98	10	
7440-38-2	Arsenic	26	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	200	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-237	Lab Sample ID:	AB99742
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	80	40	
7439-92-1	Lead	140	10	
7440-38-2	Arsenic	28	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	10	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	620	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-238	Lab Sample ID:	AB99743
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	210	40	
7439-92-1	Lead	350	10	
7440-38-2	Arsenic	27	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	12	
7782-49-2	Selenium	ND	5.0	
7740-39-3	Barium	2400	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-239	Lab Sample ID:	AB99744
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	18	
7439-92-1	Lead	16	10	
7440-38-2	Arsenic	ND	6.0	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	440	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-240	Lab Sample ID:	AB99745
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	29	
7439-92-1	Lead	180	10	
7440-38-2	Arsenic	41	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	20	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-241	Lab Sample ID:	AB99746
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	270	40	
7439-92-1	Lead	370	10	
7440-38-2	Arsenic	38	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	11	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	1200	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-206	Lab Sample ID:	AB99747
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	160	40	
7439-92-1	Lead	190	10	
7440-38-2	Arsenic	30	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	19	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-207	Lab Sample ID:	AB99748
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	110	40	
7439-92-1	Lead	34	10	
7440-38-2	Arsenic	16	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	600	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-208	Lab Sample ID:	AB99749
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	70	40	
7439-92-1	Lead	110	10	
7440-38-2	Arsenic	12	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	470	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-209	Lab Sample ID:	AB99750
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	30	
7439-92-1	Lead	96	10	
7440-38-2	Arsenic	13	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	5.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	17	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-210	Lab Sample ID:	AB99751
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	41	40	
7439-92-1	Lead	100	10	
7440-38-2	Arsenic	12	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	21	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-211	Lab Sample ID:	AB99752
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	20	
7439-92-1	Lead	45	10	
7440-38-2	Arsenic	9.0	3.0	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	450	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-212	Lab Sample ID:	AB99753
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	36	36	
7439-92-1	Lead	170	10	
7440-38-2	Arsenic	ND	14	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	7.0	3.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	1300	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-213	Lab Sample ID:	AB99754
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	140	40	
7439-92-1	Lead	280	10	
7440-38-2	Arsenic	21	3.0	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	7.0	
7439-97-6	Mercury	ND	13	
7782-49-2	Selenium	ND	6.0	
7740-39-3	Barium	1900	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-214	Lab Sample ID:	AB99755
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	91	40	
7439-92-1	Lead	110	10	
7440-38-2	Arsenic	15	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	150	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-215	Lab Sample ID:	AB99756
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	130	40	
7439-92-1	Lead	130	10	
7440-38-2	Arsenic	46	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	24	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-216	Lab Sample ID:	AB99757
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	140	40	
7439-92-1	Lead	150	10	
7440-38-2	Arsenic	59	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	200	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-217	Lab Sample ID:	AB99758
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	49	40	
7439-92-1	Lead	160	10	
7440-38-2	Arsenic	21	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	120	115	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-218	Lab Sample ID:	AB99759
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	110	40	
7439-92-1	Lead	210	10	
7440-38-2	Arsenic	49	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	11	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	960	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-219	Lab Sample ID:	AB99760
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	150	40	
7439-92-1	Lead	170	10	
7440-38-2	Arsenic	44	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	20	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-220	Lab Sample ID:	AB99761
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	83	40	
7439-92-1	Lead	94	10	
7440-38-2	Arsenic	30	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	530	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-220D	Lab Sample ID:	AB99762
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	410	40	
7439-92-1	Lead	79	10	
7440-38-2	Arsenic	380	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	9.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	590	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-220D Lab Dup	Lab Sample ID:	AB99763
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	130	40	
7439-92-1	Lead	73	10	
7440-38-2	Arsenic	310	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	500	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-221	Lab Sample ID:	AB99764
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	110	40	
7439-92-1	Lead	160	10	
7440-38-2	Arsenic	52	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	72	72	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-222	Lab Sample ID:	AB99765
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	100	40	
7439-92-1	Lead	200	10	
7440-38-2	Arsenic	67	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	23	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-223	Lab Sample ID:	AB99766
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	88	40	
7439-92-1	Lead	99	10	
7440-38-2	Arsenic	40	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	23	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-224	Lab Sample ID:	AB99767
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	38	38	
7439-92-1	Lead	160	10	
7440-38-2	Arsenic	24	3.0	
7440-22-4	Silver	ND	4.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	24	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-225	Lab Sample ID:	AB99768
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	22	22	
7439-92-1	Lead	61	10	
7440-38-2	Arsenic	ND	9.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	790	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-226	Lab Sample ID:	AB99769
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	ND	22	
7439-92-1	Lead	63	10	
7440-38-2	Arsenic	12	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	580	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-227	Lab Sample ID:	AB99770
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	41	40	
7439-92-1	Lead	47	10	
7440-38-2	Arsenic	15	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	740	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-228	Lab Sample ID:	AB99771
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	41	40	
7439-92-1	Lead	130	10	
7440-38-2	Arsenic	ND	13	
7440-22-4	Silver	ND	6.0	
7440-43-9	Cadmium	ND	6.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	870	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-229	Lab Sample ID:	AB99772
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	35	35	
7439-92-1	Lead	92	10	
7440-38-2	Arsenic	10	3.0	
7440-22-4	Silver	ND	5.0	
7440-43-9	Cadmium	ND	5.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	590	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-230	Lab Sample ID:	AB99773
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	58	40	
7439-92-1	Lead	120	10	
7440-38-2	Arsenic	17	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	8.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	570	150	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-231	Lab Sample ID:	AB99774
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	130	40	
7439-92-1	Lead	600	10	
7440-38-2	Arsenic	89	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	4.0	
7740-39-3	Barium	ND	20	

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Field Analysis of Metals by XRF

Client Sample ID: SS-231 Lab Dup
 Date of Collection: 6/22/2022
 Date of Preparation: 6/22/2022
 Date of Analysis: 6/22/2022
 Dry Weight Prepared: N/A
 Wet Weight Prepared: N/A
 Volume Extracted: N/A
 Final Volume: N/A

Lab Sample ID: AB99775
 Matrix: Soil
 Amount Prepared: N/A
 Percent Solids: N/A
 Extract Dilution: N/A
 pH: N/A
 GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	170	40	
7439-92-1	Lead	1700	10	
7440-38-2	Arsenic	170	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	9.0	
7782-49-2	Selenium	ND	6.0	
7740-39-3	Barium	ND	22	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-232	Lab Sample ID:	AB99776
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	130	40	
7439-92-1	Lead	87	10	
7440-38-2	Arsenic	25	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	200	150	

JB Paper Co. - Pittsfield, MA

Field Analysis of Metals by XRF

Client Sample ID:	SS-233	Lab Sample ID:	AB99777
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	44	40	
7439-92-1	Lead	72	10	
7440-38-2	Arsenic	45	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	3.0	
7439-97-6	Mercury	ND	6.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	ND	20	

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Field Analysis of Metals by XRF

Client Sample ID:	SS-234	Lab Sample ID:	AB99778
Date of Collection:	6/22/2022	Matrix:	Soil
Date of Preparation:	6/22/2022	Amount Prepared:	N/A
Date of Analysis:	6/22/2022	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	N/A
Wet Weight Prepared:	N/A	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-47-3	Chromium	86	40	
7439-92-1	Lead	100	10	
7440-38-2	Arsenic	72	3.0	
7440-22-4	Silver	ND	3.0	
7440-43-9	Cadmium	ND	4.0	
7439-97-6	Mercury	ND	7.0	
7782-49-2	Selenium	ND	3.0	
7740-39-3	Barium	220	150	

6/21/22 - 6/27/22
 ee

Niton XL 3E 600 XRF
 60 seconds each filter

J B Paper
 Pittsfield, MA
 Metals in soil by XRF

PV: 22060034

1

Nit#	Sample ID	Pb	As	Cr	Se	Hg	Cd	Ba	Ag
2751	SRM 2711	1126	98	43	<5	<9	32	314	42
2752	SRM 2710	5522	677	37	<12	<18	27	744	42
2753	SRM 2709	17	25	134	<4	<8	<6	649	<6
2754	SRM 2586	416	<23	244	<5	<9	13	527	7
2755	SiO2 Blank	<5	<3	13	<3	<6	<5	66	<5
2756 (1)	SS-43	409	34	194	<5	<10	<6	1992	<5
2757 (2)	SS-44	323	97	243	<4	<8	<4	340	<4
2758 (3)	SS-45	265	34	203	<4	<10	<5	1712	<4
2759 (4)	SS-145	398	75	238	<5	<9	<4	1272	<4
2760 (5)	SS-40	2320	76	230	<9	<20	<6	3797	<5
2761 (6)	SS-40 Lab Dup	4051	385	191	<14	<27	<8	3749	<6
2762 (7)	SS-41	181	36	108	<4	<7	<4	226	<4
2763 (8)	SS-42	2827	122	405	<9	<18	<8	7532	<7
2764 (9)	SS-42 Lab Dup	1507	<47	307	<8	<21	<8	8630	<7
2765	SRM 2711	1124	90	70	<6	<9	30	288	7
2766 (10)	SS-47	398	<20	85	<5	<12	<5	2439	<4
2767 (11)	SS-46	311	37	117	<5	<11	<4	1167	<4
2768	SRM 2711	1162	76	57	<6	<8	33	380	8
2769	SRM 2711	1126	123	54	<6	<8	28	314	<5
2770	SRM 2710	5510	691	51	<12	<18	27	751	38
2771	SRM 2710	5510	691	51	<12	<18	27	751	38
2772	SRM 2709	20	18	128	<4	<8	<6	598	<5
2773	SRM 2586	418	<23	293	<5	<9	11	556	<6
2774	SiO2 Blank	<4	<4	18	<3	<6	8	57	<5
2775 (12)	SS-200	131	35	240	<5	<9	<5	2175	<4
2776 (13)	SS-201	269	35	270	<10	<24	<8	4429	<7
2777 (14)	SS-202	115	47	325	<4	<7	<5	728	<4
2778 (15)	SS-203	384	143	414	<4	<8	<4	310	<4

② 6/22/22
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Pittsfield, MA

Soil Metals by XRF

With#	Sample ID	Pb	Pb	As	Cr	Se	Hg	Cd	Ba	Ag	Ni
2780	SS-205	36	8	28	79	74	78	74	860	75	74
2781	SS-305	26	9	20	20	74	78	76	943	75	75
2782	SS-235	204	40	84	75	79	75	77	277	74	74
2783	SS-235 dup	157	41	65	74	78	74	74	224	73	73
2784	SS-236	98	26	56	74	79	74	74	201	74	74
2785	SS-237	1177	84	47	76	78	30	338	6	75	75
2786	SS-237	141	28	80	74	71	76	624	75	74	74
2787	SS-238	351	27	207	75	72	75	2384	74	74	74
2788	SS-239	16	76	718	74	77	76	443	76	76	76
2789	SS-240	179	41	229	74	77	73	220	73	73	73
2790	SS-241	368	38	265	74	71	75	1242	75	75	75
2791	SS-206	189	30	164	73	77	73	219	73	73	73
2792	SS-207	34	16	189	73	76	74	598	73	73	73
2793	SS-208	106	12	70	74	78	74	471	74	74	74
2794	SS-209	96	13	30	73	75	73	217	73	73	73
2795	SS-210	102	12	41	73	76	73	221	73	73	73
2796	SS-211	1135	100	64	76	78	32	402	6	6	6
2797	SS-211	45	9	20	74	78	76	448	76	76	76
2798	SS-212	167	14	36	74	79	77	1327	76	76	76
2799	SS-213	280	21	136	76	73	77	1851	76	76	76
2800	SS-214	107	15	91	73	76	74	152	73	73	73
2801	SS-215	126	46	132	73	77	74	224	73	73	73
2802	SS-216	149	59	137	74	78	73	204	73	73	73
2803	SS-217	155	21	49	73	76	74	115	73	73	73
2804	SS-218	205	49	116	74	71	74	960	73	73	73
2805	SS-219	172	44	148	73	76	73	220	73	73	73

14:55:00

6/22/22
JLJB Papen
Pittsfield, MA
soil metals by XRF

3

Niton#	Sample ID	Pb	As	Cr	Se	Hg	Cd	Ba	Ag
2806	(11) SS-220	94	30	83	<4	<8	<4	534	<4
2807	SS-220	1122	108	33	<6	<9	37	418	8
2808 (42)	SS-220D	79	377	405	<4	<7	<9	593	<4
2809 (43)	SS-220D Lab dup	73	311	133	<4	<7	<5	503	<4
2810 (44)	SS-221	160	52	106	<4	<8	<4	72	<4
2811 (45)	SS-222	199	67	101	<4	<8	<4	<23	<3
2812 (46)	SS-223	99	40	88	<4	<7	<4	<23	<3
2813 (47)	SS-224	162	24	38	<4	<7	<4	<24	<4
2814 (48)	SS-225	61	<9	22	<4	<8	<6	789	<5
2815 (49)	SS-226	63	12	<22	<4	<7	<6	584	<5
2816 (50)	SS-227	47	15	41	<4	<7	<6	738	<5
2817 (51)	SS-228	129	<13	41	<4	<9	<6	868	<6
2818	SS-228	1123	94	62	<6	<9	37	372	9
2819 (52)	SS-229	92	10	35	<4	<7	<5	587	<5
2820 (53)	SS-230	115	17	58	<3	<8	<4	573	<3
2821 (54)	SS-231	601	89	131	<4	<7	<3	<20	<3
2822 (55)	SS-231 Lab dup	1672	165	173	<6	<9	<3	522	<3
2823 (56)	SS-232	87	25	125	<3	<7	<4	197	<3
2824 (57)	SS-233	72	45	44	<3	<6	<3	420	<3
2825 (58)	SS-234	101	72	86	<3	<7	<4	224	<3
2826	SS-234	1075	130	71	<6	<9	28	346	8

