NEW YORK STATE | Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Acting Commissioner

March 20, 2025

Michelle Caulfield, Superintendent
Corning – Painted Post Area School District
165 Charles St.
Painted Post, NY 14870

Re: Hugh W. Gregg Elementary School Soil Investigation Summary
NYSDEC Site: Investigation and Site Characterization of the Glass Manufacturing Waste Disposal Area in the Greater Corning Area of New York (Site #851074)

Dear Michelle Caulfield:

Thank you for your cooperation during the work completed to date. This work is vital to ensuring the health and safety of the entire Corning community.

We are enclosing a copy of the soil investigation summary for your records. This report summarizes the lab testing results for detected compounds from the soil borings collected at the school. These results have been compared against regulatory cleanup objectives and guidance values, based on 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) for restricted-residential use (NYSDEC 2006). Based on the results of this investigation, there are no immediate exposure risks associated with glass manufacturing waste (i.e., ash, brick, and/or glass (ABG)) on the Hugh W. Gregg Elementary School property.

As you review the report, you may notice that ABG was observed in one soil boring location from 31-32 inches below ground surface and is not currently present at the surface. Exceedances of *unrestricted* SCOs were detected in a total of three samples across the three composite sample areas; however, no exceedances of *restricted*-residential SCOs were detected in the soil samples.

To provide some context, restricted-residential SCOs are applicable to properties where there is common or single ownership for managing the property and allows for recreational use with the potential for soil contact (such as an apartment complex or a school property). There were limited exceedances of the *unrestricted* SCOs which do not pose a risk for current school property use. Nevertheless, DEC should be notified of any upcoming intrusive work or if ABG is encountered to ensure the material is handled appropriately. Best management practices for minimizing exposure to ABG are included as **Appendix E.**

Should you have any questions or require additional information, please contact Samantha Salotto at 518-402-9903 or samantha.salotto@dec.ny.gov. If you should have any health-related questions, please contact John Robinson of the NYSDOH at 518-402-7881 or johnathan.robinson@health.ny.gov.

Thank you once again for your continued cooperation.

Sincerely,

Michael J. Cruden, P.E.
Director, Remedial Bureau E
Division of Environmental Remediation

[Enclosure]

ec: S. Salotto, NYSDEC
J. Robinson, NYSDOH

HUGH W. GREGG ELEMENTARY SCHOOL SOIL INVESTIGATION SUMMARY

Investigation and Site Characterization of the Glass Manufacturing Waste Disposal Area in the Greater Corning Area of New York

Corning, Steuben County, New York

Prepared for:

NEW YORK STATE | Department of Environmental Conservation

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway 12th Floor
Albany, New York 12233–7012

Prepared by:

PARSONS

301 Plainfield Road
Suite 350
Syracuse, New York 13212

MARCH 2025

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

PROJECT BACKGROUND

The New York State Department of Environmental Conservation (NYSDEC) is conducting an area-wide investigation of contamination in the greater Corning, New York area, focusing on hazardous waste and substances linked to historical glass manufacturing and waste disposal. In 2012, fill containing waste materials from former glass manufacturing processes, now known as ash, brick, and/or glass (ABG), was encountered during a capital improvement project at the Corning-Painted Post High School. Since 2012, over seventy locations have been identified as having confirmed or suspected ABG.

Investigations to date in the greater Corning, New York area have included collection of surface soil, subsurface soil, sediment, surface water and groundwater samples. Findings from sampling have identified ABG and/or elevated concentrations of metals (most frequently arsenic, cadmium, and lead) and semi-volatile organic compounds (SVOCs) above NYSDEC soil cleanup objectives (SCOs; NYSDEC 2006) at residential, recreational, and commercial/industrial properties.

As part of the Investigation and Site Characterization of the Glass Manufacturing Waste Disposal Area in the Greater Corning Area of New York, four schools (William E. Severn, Hugh W. Gregg, Winfield Street, and Frederick Carder elementary schools) have been identified for investigation. These schools were selected due to their proximity to sites with confirmed ABG. ABG was observed in the right of way adjacent to Hugh W. Gregg Elementary School. There were no reports of historic waste disposal or observations of ABG on the school property prior to the investigation. The intent of the school investigations is to assess the potential presence of ABG and the potential impacts from these materials in the surface and subsurface soils.

As shown on **Figure 1**, the Hugh W. Gregg Elementary School is located near several sites with confirmed ABG. This report details the results of the initial sampling at Hugh W. Gregg Elementary School in August 2024 to assess the potential presence and impact of ABG in surface and subsurface soils.

SUMMARY OF WORK COMPLETED

Field activities were conducted in general accordance with the *Initial Investigation Work Plan for Corning Painted-Posted Area School District Properties* (Work Plan; Parsons 2024), with any variances from the Work Plan described herein. School specific plans were developed in conjunction with the *Site Characterization Work Plan, Corning Area Wide Study* (Work Plan; Parsons 2023). In addition, field activities were completed in accordance with DER-10 (NYSDEC 2010) and the following documents that prepared and approved for Parsons' contract with the NYSDEC:

- Generic Field Activities Plan (FAP; Parsons 2020a)
- Project Safety, Health and Environmental Plan, Corning Inc. Sites, Corning, NY (PSHEP, Parsons 2024)
- Quality Assurance Project Plan, Corning Area Wide Study (QAPP, Parsons 2023)

Soil Boring Installation and Sample Collection

Fifteen soil borings were advanced manually via a hand auger to a depth of four feet within areas of non-impervious surfaces at the school, as shown on **Figure 2**. Boring logs and photographs of recovered soils are included in **Appendix A and Appendix B**, respectively**.** The soil boring locations were recorded using a hand-held global positioning system (GPS) unit. Due to the presence of large cobbles and challenging hand augering conditions, several borings were offset by several feet from the planned locations. At several borings, refusal

occurred at depths shallower than four feet below ground surface (bgs), and is noted in the boring logs included in **Appendix A.**

Soil samples were collected and logged continuously from 0 to 4 feet bgs at each boring location. Each soil sample was also screened for the presence of volatile organic compounds (VOCs) with a photoionization detector (PID) and readings were recorded on the boring logs. Observations of any debris and ABG are noted in **Table 1.**

Soil samples were collected at each boring location from 0 to 6 inches, 6 to 24 inches, and 24 to 48 inches. Soils from each interval were composited across five borings to create a single five-point composite sample, for a total of nine composite samples across three areas of the school property, as shown on **Figure 2**. Soils were placed into laboratory provided sample jars and submitted for laboratory analysis. All soil samples were analyzed for total metals, including boron and mercury. In addition, 20 percent of soil samples (one sample) was also analyzed for SVOCs, per- and polyfluoroalkyl substances (PFAS) and 1,4–dioxane to achieve the minimum 20 percent analysis frequency for samples collected as part of the area-wide investigation. The soil samples were not analyzed for Toxicity Characteristic Leaching Procedure (TCLP) analysis and would not be expected to exceed TCLP criteria given that the total metals concentrations for two of the three soil samples were below the most protective (i.e., unrestricted) SCOs and although the third soil sample exceeded the unrestricted SCO for zinc, it did not exceed the restricted-residential SCO.

Archive samples were collected when specific items related to historical manufacturing waste, primarily associated with glass manufacturing, were identified. Two archive samples were collected at boring location HGE-01-05. Archive sample logs are included as **Appendix C.**

The New York State Department of Health (NYSDOH) generic Community Air Monitoring Plan (CAMP) (NYSDEC 2010) was implemented for real-time monitoring of VOCs and particulates (i.e., dust) at the upwind and downwind perimeter of each designated work area during intrusive activities on-site. CAMP data is summarized in the tables below and is included as **Appendix D.** No downwind VOC concentrations were observed to exceed the action limit of 5.0 parts per million (ppm) above upwind concentrations. No downwind particulate concentrations were observed to exceed the action limit of 0.100 milligrams per cubic meter (mg/m^3) above upwind concentrations.

DAILY CAMP READINGS – AVERAGE AND PEAK VOC CONCENTRATIONS

	Upwind VOC Concentrations		Downwind VOC Concentrations	
Date	Average (ppm)	Peak (ppm)	Average (ppm)	Peak (ppm)
8/19/2024	0.3	0.3	0.0	0.0
8/20/2024	0.5	0.7	0.1	0.1
8/21/2024	0.9	1.4	0.1	0.2
8/22/2024	0.5	0.9	0.0	0.1

ppm – parts per million

DAILY CAMP READINGS – AVERAGE AND PEAK PARTICULATE CONCENTRATIONS

	Upwind Particulate Concentrations		Downwind Particulate Concentrations	
Date	Average (mg/m^3)	Peak (mg/m^3)	Average (mg/m^3)	Peak (mg/m^3)
8/19/2024	0.002	0.004	0.001	0.001
8/20/2024	0.009	0.011	0.002	0.003
8/21/2024	0.010	0.014	0.007	0.009

8/22/2024	0.013	0.014	0.012	0.012

mg/m3 – milligrams per cubic meter

Results

ABG was observed at Hugh W. Gregg Elementary School in 1 of the 15 borings across the three composite areas between 2 to 4 feet bgs. Examples of ABG observed include glass cullet and ceramic shards, as summarized in **Table 1**. Debris was observed throughout the investigation area. A staff member at the school noted to Parsons field staff that there used to be two buildings on the school property that were demolished some time before the current elementary school was built. During construction of the current elementary school, the ground had to be excavated because the demolition debris from one of the old buildings was buried in its former basement. The staff member noted that the footprint of the other demolished building was within the other composite locations. Based on limited sampling completed as part of this investigation, most of the debris observed in the borings appeared to be demolition debris. The quality of the data has been assessed and is documented in the Data Usability Summary Report (DUSR), which is included as **Appendix E**. Validated data have been submitted to NYSDEC for upload into the NYSDEC EQUIS database.

Sample results were compared to unrestricted and restricted-residential SCOs (NYSDEC 2006) and the NYSDEC PFAS restricted-residential guidance values (NYSDEC 2023). The unrestricted SCOs are the most stringent standard that allows for use with no imposed restrictions on the property (i.e., no risk to receptors). The restricted-residential SCOs are applicable to properties where there is common or single ownership for managing the property and allows for recreational use with the potential for soil contact (such as an apartment complex or a school property), excluding vegetable gardens. Restricted-residential standards are applicable to the top two feet of soils not covered by structures (e.g., buildings, sidewalks, pavement).

A summary of detected concentrations and the corresponding unrestricted and restricted-residential SCOs is included in **Table 2**. Perfluorooctanesulfonic acid (PFOS) was detected at concentrations (0.93 to 2.7 micrograms per kilogram [µg/kg]) exceeding the unrestricted SCO (0.88 µg/kg) in two samples collected from 0.5 to 2 feet bgs. Perfluorooctanoic acid (PFOA) was also detected at a concentration (0.73 µg/kg) exceeding the unrestricted SCO in one of these samples. The detected concentration of zinc (110 milligrams per kilogram [mg/kg]) marginally exceeded the unrestricted SCO (109 mg/kg) in a sample collected from 0 to 0.5 feet bgs. None of the samples had analyte concentrations exceeding restricted-residential SCOs. The full analytical results are included in the DUSR (**Appendix E**).

Investigation-Derived Waste Management

Investigation-derived waste (IDW), including decontamination rinsates, personal protective equipment, and disposable sampling equipment were placed in U.S. Department of Transportation (DOT)-approved 55-gallon 17-H type drums. NYSDEC's IDW contractor, T&R Environmental, collected characterization samples of the IDW, submitted the samples for analysis, and subsequently removed the IDW drums from the property for disposal at a licensed facility.

Site Restoration

During the investigation, care was taken to preserve the grass at the borehole locations. After sampling was completed, each borehole was backfilled with the remaining soil and additional topsoil as needed, from the total

depth to the ground surface. The surface was then regraded by hand, and the grass layer was replaced. The ground surface was restored to its original condition prior to the intrusive activities.

Recommendations

Based on the results of this investigation, there are no immediate exposure risks associated with ABG. ABG was observed in one four-foot-deep soil boring location. Exceedances of unrestricted SCOs were detected in a total of three samples across the three composite sample areas. No exceedances of restricted-residential SCOs were detected in the soil samples. These limited exceedances of the Unrestricted SCO do not pose a risk for current school property use. However, additional investigation is recommended to further assess the extent of ABG and any associated impacts to soil on the Hugh W. Gregg Elementary School Property. NYSDEC should be notified of any upcoming intrusive work or if ABG is encountered. Best management practices for minimizing exposure to ABG are included as **Appendix F.**

REFERENCES

Burmister, D. M. 1951. *Principles and techniques of soil identification. Proceedings of the American Society of Civil Engineers*

NYSDEC. 2006. *New York Code of Rules and Regulation, Title 6, Part 375 Environmental Remediation Programs.* December 14.

NYSDEC. 2023. *Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*. April.

NYSDEC. 2010. DER-10 / Technical Guidance for Site Investigation and Remediation. May 3.

Parsons. 2020a. *Generic Field Activities Plan (FAP).* Prepared for the New York State Department of Environmental Conservation, Albany, NY. April.

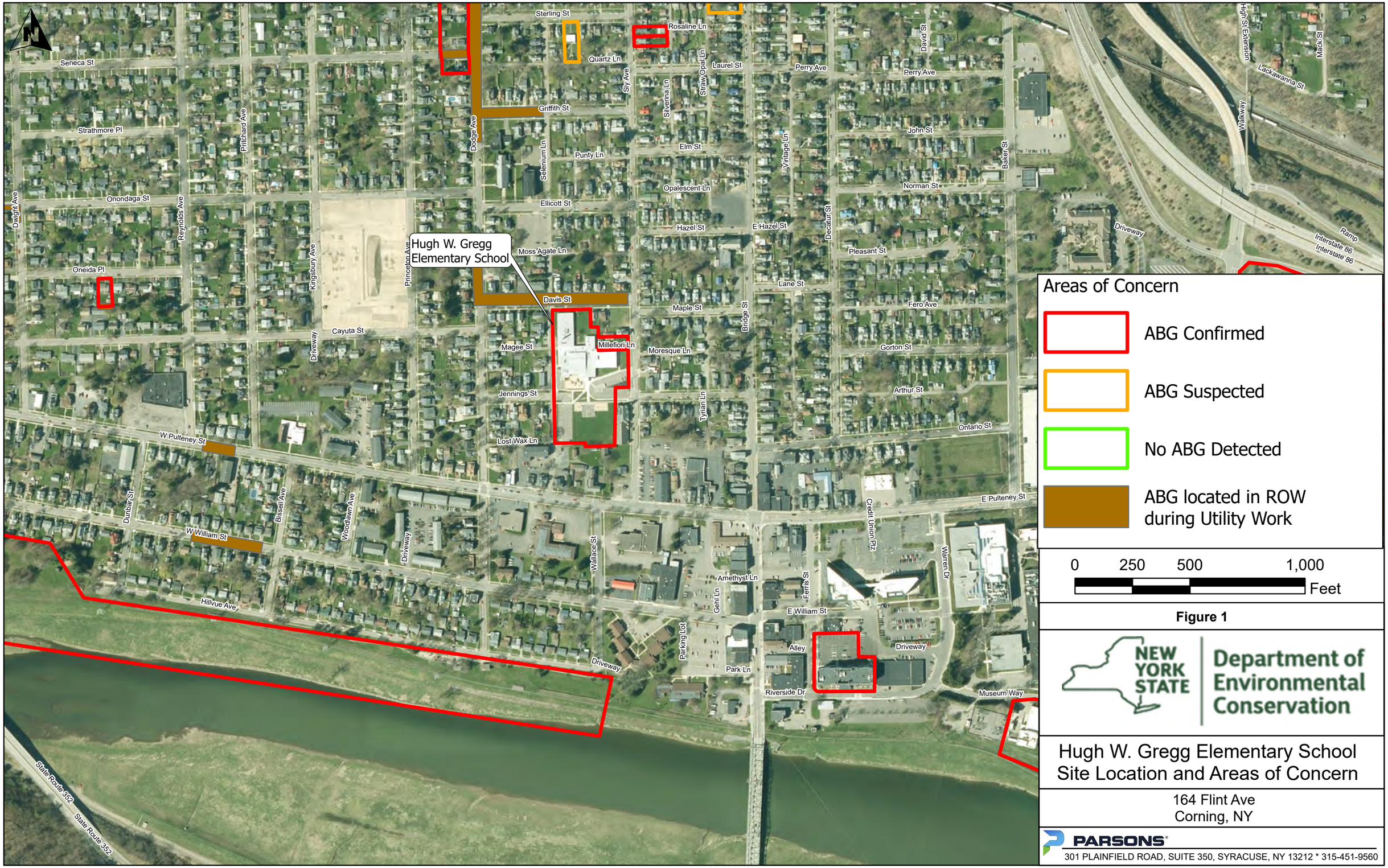
Parsons. *2023 Quality Assurance Project Plan, Corning Area Wide Study.* Prepared for the New York State Department of Environmental Conservation, Albany, NY. February

Parsons. 2023. *Site Characterization Work Plan, Corning Area Wide Study.* Prepared for the New York State Department of Environmental Conservation, Albany, NY. March

Parsons. 2024. *Project Safety, Health and Environmental Plan, Corning Inc. Sites, Corning, NY* Prepared for the New York State Department of Environmental Conservation, Albany, NY. April.

Parsons. 2024. *Initial Investigation Work Plan, Corning-Painted Post Area School District Properties.* Prepared for the New York State Department of Environmental Conservation, Albany, NY. August.

FIGURES



Areas of Concern

- ABG Confirmed
- ABG Suspected
- No ABG Detected
- ABG located in ROW during Utility Work

0 250 500 1,000 Feet

Figure 1

NEW YORK STATE | Department of Environmental Conservation

Hugh W. Gregg Elementary School Site Location and Areas of Concern

164 Flint Ave
Corning, NY

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Plotted By: CS

Plot Date: 2/27/2025

Document Path: Q:\GIS\NYSDEC\Corning\APRXs\Corning Schools\Corning Schools.aprx

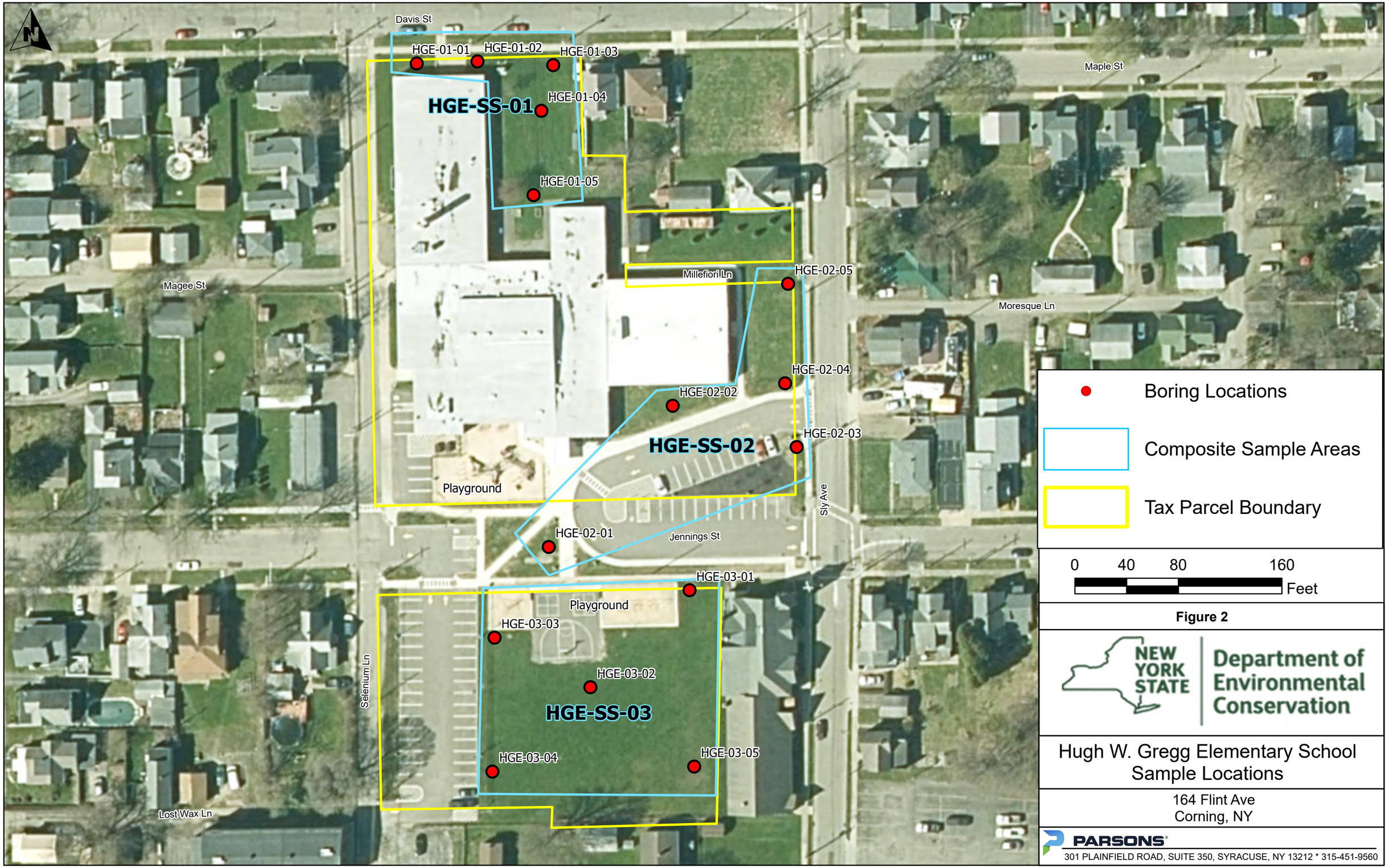


Figure 2

NEW YORK STATE | Department of Environmental Conservation

Hugh W. Gregg Elementary School Sample Locations

164 Flint Ave
Corning, NY

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Plotted By: CS

Plot Date: 3/24/2025

Document Path: Q:\GIS\NYSDEC\Corning\APRXs\Corning Schools\Corning Schools.aprx

TABLES

Table 1 - Soil Observations

School	Sample Date	Sample Location	Non - Native Material Encountered	Archive Sample Collected
Hugh Gregg	8/22/2024	HGE-01-01	2 small glass fragments from 0-0.5ft. Rusty nail in top 2ft.	No
Hugh Gregg	8/22/2024	HGE-01-02	One small building brick fragment 0.5-2ft.	No
Hugh Gregg	8/22/2024	HGE-01-03	Ash and slag from 4-19 in.	No
Hugh Gregg	8/22/2024	HGE-01-04	No.	No
Hugh Gregg	8/22/2024	HGE-01-05	Glass (cullet) and ceramic shards from 31-32 in.	Yes
Hugh Gregg	8/20/2024	HGE-02-01	Piece of clay pipe at 2.5ft	No
Hugh Gregg	8/20/2024	HGE-02-02	Small orange brick fragments from 2.25 to 2.5ft .	No
Hugh Gregg	8/20/2024	HGE-02-03	No.	No
Hugh Gregg	8/20/2024	HGE-02-04	Small brick fragments from 1.25-2ft.	No
Hugh Gregg	8/20/2024	HGE-02-05	Historic glass and metal from 0-0.5ft.	No
Hugh Gregg	8/21/2024	HGE-03-01	Trace brick fragments from 2-3.75ft.	No
Hugh Gregg	8/21/2024	HGE-03-02	One small glass fragment 0-0.5ft, Brick fragments from 1-1.25ft, square rock found at 1.9ft.	No
Hugh Gregg	8/21/2024	HGE-03-03	Small brick fragments and coal from 0.5-2ft.	No
Hugh Gregg	8/21/2024	HGE-03-04	Pieces of stone foundation from 0.75-1ft, ash from 0-2.75ft.	No
Hugh Gregg	8/21/2024	HGE-03-05	Ash, brick, and slag from 0-4ft.	No

Table 2 Soil Detections

			Location ID	AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-02	
			Sample ID	AWS-HGE-SS-01-0-0.5		AWS-HGE-SS-01-0.5-2		AWS-HGE-SS-01-2-4		AWS-HGE-02-0-0.5	
			Start Depth	0		0.5		2		0	
			End Depth	0.5		2		4		0.5	
			Matrix	SO		SO		SO		SO	
			Sample Date	8/22/2024		8/22/2024		8/22/2024		8/20/2024	
			Sample Type Code	N		N		N		N	
Chemical Name	Unit	RESTRICTED RESIDENTIAL	UNRESTRICTED								
2-Methylnaphthalene	mg/kg					0.043	J				
Anthracene	mg/kg	100	100			0.2	U				
Benzo(A)Anthracene	mg/kg	1	1			0.094	J				
Benzo(A)Pyrene	mg/kg	1	1			0.094	J				
Benzo(B)Fluoranthene	mg/kg	1	1			0.13	J				
Benzo(G,H,I)Perylene	mg/kg	100	100			0.2	UJ				
Benzo(K)Fluoranthene	mg/kg	3.9	0.8			0.07	J				
Bis(2-Ethylhexyl) Phthalate	mg/kg					0.2	J				
Carbazole	mg/kg					0.2	U				
Chrysene	mg/kg	3.9	1			0.11	J				
Fluoranthene	mg/kg	100	100			0.14	J				
Indeno(1,2,3-C,D)Pyrene	mg/kg	0.5	0.5			0.2	UJ				
Naphthalene	mg/kg	100	12			0.11	J				
Phenanthrene	mg/kg	100	100			0.082	J				
Pyrene	mg/kg	100	100			0.17	J				
Solids, Percent	%			82.1		84.4		85.4		88.7	
Perfluorobutanesulfonic acid (PFBS)	ug/kg					0.046	J				
Perfluorodecanesulfonic acid (PFDS)	ug/kg					0.11	JN				
Perfluorodecanoic acid (PFDA)	ug/kg					0.52					
Perfluorododecanoic acid (PFDoA)	ug/kg					0.19	J				
Perfluoroheptanoic acid (PFHpA)	ug/kg					0.16	J				
Perfluorohexanesulfonic acid (PFHxS)	ug/kg					0.081	J				
Perfluorohexanoic acid (PFHxA)	ug/kg					0.25					
Perfluorononanoic acid (PFNA)	ug/kg					0.2					
Perfluorooctanesulfonic acid (PFOS)	ug/kg	44	**0.88**			**2.7**					
Perfluorooctanoic acid (PFOA)	ug/kg	33	**0.66**			**0.73**					
Perfluoropentanoic Acid (PFPeA)	ug/kg					0.42					
Perfluorotetradecanoic acid (PFTA)	ug/kg					0.076	J				
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	ug/kg					0.031	J				
Perfluoroundecanoic Acid (PFUnA)	ug/kg					0.09	J				
Aluminum	mg/kg			10000		11000		15000		8600	
Arsenic	mg/kg	16	13	6.9		7.9		7.1		6.9	
Barium	mg/kg	400	350	95		120		100		67	
Beryllium	mg/kg	72	7.2	0.51		0.57		0.55		0.33	
Boron	mg/kg	4300	440	2.3	J	2.5	J	1.7	J	3.4	J
Cadmium	mg/kg	4.3	2.5	0.36	J	0.38	J	0.22	J	0.24	J
Calcium	mg/kg			1700		3400		1300		68000	
Chromium, Total	mg/kg	180	30	12		11		15		10	
Cobalt	mg/kg			7.5		7.1		8.3		5.8	
Copper	mg/kg	270	50	17		18		18		22	J+
Iron	mg/kg			22000		21000		26000		18000	
Lead	mg/kg	400	63	45	J	53		31		24	
Magnesium	mg/kg			2600		2700		3100		6100	
Manganese	mg/kg	2000	1600	420		450		430		500	
Nickel	mg/kg	310	30	17		16		19		13	
Potassium	mg/kg			1000		930		920		730	
Sodium	mg/kg			200	U	190	U	190	U	230	
Vanadium	mg/kg			13		15		18		12	
Zinc	mg/kg	10000	**109**	80	J	96		76		**110**	
Mercury	mg/kg	0.81	0.18	0.089		0.12		0.14		0.052	

Soil Cleanup Objectives (SCOs) from 6 NYCRR Part 375 Environmental Remediation Programs
Subpart 375-6, December 2006
U = Not detected above laboratory standard; UJ = Estimated and not detected at the value given;
J = estimated at the value given; J+ = estimated biased high at the value given
N = normal sample; FD = field duplicate; SO = soil
mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram
Value exceeds the NYCRR Unrestricted Use SCOs

Table 2 Soil Detections

				Location ID	AWS-HGE-SS-02		AWS-HGE-SS-02		AWS-HGE-SS-03		AWS-HGE-SS-03	
				Sample ID	AWS-HGE-02-0.5-2		AWS-HGE-02-2-4		AWS-HGE-SS-03-0-0.5		AWS-HGE-SS-03-0.5-2	
				Start Depth	0.5		2		0		0.5	
				End Depth	2		4		0.5		2	
				Matrix	SO		SO		SO		SO	
				Sample Date	8/20/2024		8/20/2024		8/21/2024		8/21/2024	
				Sample Type Code	N		N		N		N	
Chemical Name	Unit	RESTRICTED RESIDENTIAL	UNRESTRICTED									
2-Methylnaphthalene	mg/kg										0.19	U
Anthracene	mg/kg	100	100								0.046	J
Benzo(A)Anthracene	mg/kg	1	1								0.26	
Benzo(A)Pyrene	mg/kg	1	1								0.23	
Benzo(B)Fluoranthene	mg/kg	1	1								0.32	
Benzo(G,H,I)Perylene	mg/kg	100	100								0.083	J
Benzo(K)Fluoranthene	mg/kg	3.9	0.8								0.15	J
Bis(2-Ethylhexyl) Phthalate	mg/kg										0.39	U
Carbazole	mg/kg										0.041	J
Chrysene	mg/kg	3.9	1								0.32	
Fluoranthene	mg/kg	100	100								0.57	
Indeno(1,2,3-C,D)Pyrene	mg/kg	0.5	0.5								0.15	J
Naphthalene	mg/kg	100	12								0.19	U
Phenanthrene	mg/kg	100	100								0.37	
Pyrene	mg/kg	100	100								0.58	
Solids, Percent	%				82.9		85.8		72.9		86.7	
Perfluorobutanesulfonic acid (PFBS)	ug/kg										0.2	U
Perfluorodecanesulfonic acid (PFDS)	ug/kg										0.037	J
Perfluorodecanoic acid (PFDA)	ug/kg										0.1	J
Perfluorododecanoic acid (PFDoA)	ug/kg										0.037	J
Perfluoroheptanoic acid (PFHpA)	ug/kg										0.1	J
Perfluorohexanesulfonic acid (PFHxS)	ug/kg										0.2	U
Perfluorohexanoic acid (PFHxA)	ug/kg										0.17	J
Perfluorononanoic acid (PFNA)	ug/kg										0.11	J
Perfluorooctanesulfonic acid (PFOS)	ug/kg	44	**0.88**								**0.93**	
Perfluorooctanoic acid (PFOA)	ug/kg	33	**0.66**								0.33	
Perfluoropentanoic Acid (PFPeA)	ug/kg										0.16	JN
Perfluorotetradecanoic acid (PFTA)	ug/kg										0.2	U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	ug/kg										0.2	U
Perfluoroundecanoic Acid (PFUnA)	ug/kg										0.031	J
Aluminum	mg/kg				9000		8900		8300		8900	
Arsenic	mg/kg	16	13		5.9		6.1		9.1		7.8	
Barium	mg/kg	400	350		69		45		86		92	
Beryllium	mg/kg	72	7.2		0.37		0.37		0.56		0.58	
Boron	mg/kg	4300	440		2.6	J	2.3	J	2.6	J	1.9	J
Cadmium	mg/kg	4.3	2.5		0.22	J	0.37	U	0.47		0.32	J
Calcium	mg/kg				9300		1500		4200		3600	
Chromium, Total	mg/kg	180	30		9.9		10		11		11	
Cobalt	mg/kg				5.8		6.2		8.4		7.7	
Copper	mg/kg	270	50		22	J+	21	J+	20		21	
Iron	mg/kg				17000		19000		18000		18000	
Lead	mg/kg	400	63		24		16		55		62	
Magnesium	mg/kg				3500		2500		2200		2200	
Manganese	mg/kg	2000	1600		550		480		500		500	
Nickel	mg/kg	310	30		13		14		16		15	
Potassium	mg/kg				670		610		900		860	
Sodium	mg/kg				240		240		220	U	190	U
Vanadium	mg/kg				13		13		12		14	
Zinc	mg/kg	10000	**109**		87		66		100		87	
Mercury	mg/kg	0.81	0.18		0.055	J-	0.042	J-	0.11		0.14	

Soil Cleanup Objectives (SCOs) from 6 NYCRR Part 375 Environmental Remediation Programs
Subpart 375-6, December 2006
U = Not detected above laboratory standard; UJ = Estimated and not detected at the value given;
J = estimated at the value given; J+ = estimated biased high at the value given
N = normal sample; FD = field duplicate; SO = soil
mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram
Value exceeds the NYCRR Unrestricted Use SCOs

Table 2 Soil Detections

			Location ID	AWS-HGE-SS-03	
			Sample ID	AWS-HGE-SS-03-2-4	
			Start Depth	2	
			End Depth	4	
			Matrix	SO	
			Sample Date	8/21/2024	
			Sample Type Code	N	
Chemical Name	Unit	RESTRICTED RESIDENTIAL	UNRESTRICTED		
2-Methylnaphthalene	mg/kg				
Anthracene	mg/kg	100	100		
Benzo(A)Anthracene	mg/kg	1	1		
Benzo(A)Pyrene	mg/kg	1	1		
Benzo(B)Fluoranthene	mg/kg	1	1		
Benzo(G,H,I)Perylene	mg/kg	100	100		
Benzo(K)Fluoranthene	mg/kg	3.9	0.8		
Bis(2-Ethylhexyl) Phthalate	mg/kg				
Carbazole	mg/kg				
Chrysene	mg/kg	3.9	1		
Fluoranthene	mg/kg	100	100		
Indeno(1,2,3-C,D)Pyrene	mg/kg	0.5	0.5		
Naphthalene	mg/kg	100	12		
Phenanthrene	mg/kg	100	100		
Pyrene	mg/kg	100	100		
Solids, Percent	%			86.2	
Perfluorobutanesulfonic acid (PFBS)	ug/kg				
Perfluorodecanesulfonic acid (PFDS)	ug/kg				
Perfluorodecanoic acid (PFDA)	ug/kg				
Perfluorododecanoic acid (PFDoA)	ug/kg				
Perfluoroheptanoic acid (PFHpA)	ug/kg				
Perfluorohexanesulfonic acid (PFHxS)	ug/kg				
Perfluorohexanoic acid (PFHxA)	ug/kg				
Perfluorononanoic acid (PFNA)	ug/kg				
Perfluorooctanesulfonic acid (PFOS)	ug/kg	44	**0.88**		
Perfluorooctanoic acid (PFOA)	ug/kg	33	**0.66**		
Perfluoropentanoic Acid (PFPeA)	ug/kg				
Perfluorotetradecanoic acid (PFTA)	ug/kg				
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	ug/kg				
Perfluoroundecanoic Acid (PFUnA)	ug/kg				
Aluminum	mg/kg			11000	
Arsenic	mg/kg	16	13	7.2	
Barium	mg/kg	400	350	110	
Beryllium	mg/kg	72	7.2	0.46	
Boron	mg/kg	4300	440	1.8	J
Cadmium	mg/kg	4.3	2.5	0.18	J
Calcium	mg/kg			1500	
Chromium, Total	mg/kg	180	30	11	
Cobalt	mg/kg			6.9	
Copper	mg/kg	270	50	21	
Iron	mg/kg			18000	
Lead	mg/kg	400	63	40	
Magnesium	mg/kg			2200	
Manganese	mg/kg	2000	1600	680	
Nickel	mg/kg	310	30	14	
Potassium	mg/kg			770	
Sodium	mg/kg			190	U
Vanadium	mg/kg			16	
Zinc	mg/kg	10000	**109**	75	
Mercury	mg/kg	0.81	0.18	0.18	

Soil Cleanup Objectives (SCOs) from 6 NYCRR Part 375 Environmental Remediation Programs
Subpart 375-6, December 2006
U = Not detected above laboratory standard; UJ = Estimated and not detected at the value given;
J = estimated at the value given; J+ = estimated biased high at the value given
N = normal sample; FD = field duplicate; SO = soil
mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram
Value exceeds the NYCRR Unrestricted Use SCOs

APPENDIX A BORING LOGS

The following logs utilize Burmeister soil classification system. For this system component percentages range from “trace” to “and”; grain sizes of coarse-grained components range from “fine” to “coarse”. The symbols (+) and (-) to indicate the description is one the upper or lower end of the description range, respectively. For example, trace (+) indicates that the component is closer to 10% than it is to 1%; and a fine (-) grained Gravel is closer to a No. 10 sieve than to 1inch.

Identifying terms for clay-soils are given on a significant plasticity basis. Since the clay and silt components cannot be separated for identification purposes, the identifying soil names for the combined silt-clay components are coupled directly together and are treated as one soil material finer than the No. 200 sieve with names defined on a plasticity basis (Burmeister 1951). Non-plastic is defined as SILT, slight plasticity is defined as Clayey SILT, low plasticity is defined as SILT and CLAY, medium plasticity is defined as CLAY and SILT, high plasticity is defined as Silty CLAY, and very high plasticity is defined as CLAY. Due to slight differences in definitions and plasticity limits, high plasticity clays as typically defined by USCS would include CLAY and SILT, Silty CLAY, and CLAY, and low plasticity clays as typically defined by the USCS would include SILT, Clayey SILT, and SILT and CLAY.

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-01-01**
Project: Corning Area Wide Study	Weather:	START DATE: 08/21/2024 15:00
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/21/2024 15:45
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown medium to fine SAND, some (-) to little (+) Silt, trace (-) medium to fine Gravel (sub-rounded), abundant roots, 2 small glass shards present in top 6 inches [SP]									0
1	dry, brown coarse to fine SAND, little (+) Silt, little (-) coarse to fine Gravel (subrounded) [SP]									1
2	moist, tan brown Clayey SILT, trace medium to fine Sand, trace fine gravel, piece of glass present (most likely fell down from higher in hole); rusty nail present [ML]		HC	0	--	--	100	0	BORING BACKFILLED WITH CLEAN CUTTINGS AND TOPPED WITH GRASS SOD	2
3										3
4	moist, dark reddish brown Clayey SILT, trace (+) medium to fine Sand, trace medium to fine Gravel (subrounded) [ML] BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-01-02**
Project: Corning Area Wide Study	Weather:	START DATE: 08/22/2024 07:37
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/22/2024 08:15
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown medium to fine SAND, some Silt, trace medium to fine Gravel (rounded); abundant roots; 0.7 PPM [SM]									0
	dry, brown medium to fine SAND, some Silt, trace coarse to fine Gravel, trace Cobble (-) (rounded); small building brick fragment [SM]									
1										1
2	dry, tan brown SILT, little medium to fine Sand, trace (-) medium to fine Gravel (rounded); 1.5 PPM [ML]		HC	1	--	--	100	1.5	BACKFILLED WITH CLEAN SOIL CUTTINGS	2
3										3
4	BORHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-01-03**
Project: Corning Area Wide Study	Weather:	START DATE: 08/22/2024 08:18
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/22/2024 08:55
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some (-) to little (+) Silt, trace (+) medium to fine Gravel (sub-rounded); 0.9 PPM [SM]									0
	dry fill layer: ash, slag; any soil present is gray coarse to fine Sand; 1.4 PPM									
1										1
	dry, tan brown SILT, little (-) medium (-) to fine Sand, trace (-) fine Gravel; 0.6 PPM [ML]									
2			HC	1	--	--	100	1.4	BOREHOLE BACKFILLED WITH CLEAN SOIL CUTTINGS	2
3										3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-01-04**
Project: Corning Area Wide Study	Weather:	START DATE: 08/22/2024 09:15
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/22/2024 09:52
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, little (+) Silt, trace medium to fine Gravel (subrounded); abundant roots; 1.7PPM [SP]									0
1	dry, brown coarse to fine SAND, little Silt, little (-) coarse to fine Gravel (sub-rounded); 1.1 PPM [SP]									1
2	dry, tan brown SILT, little (+) medium to fine Sand, trace coarse to fine Gravel, trace Cobble (subrounded); 1.0 PPM [ML]		HC	1	--	--	100	1.7	BOREHOLE BACKFILLED WITH CLEAN SOIL CUTTINGS	2
3										3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-01-05**
Project: Corning Area Wide Study	Weather:	START DATE: 08/22/2024 10:20
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/22/2024 11:35
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some (-) to little (+) Silt, trace (-) medium to fine Gravel (subrounded) [SM]									0
2	dry, brown, coarse to fine SAND, little Silt, little coarse to fine Gravel (rounded to subrounded), trace (-) Cobbles; layer of formed glass (cullet) and ceramic from 31 to 32 inches below ground surface [SP]		HC	1	--	--	100	0	BORING BACKFILLED WITH CLEAN SOIL CUTTINGS	2
4	BORING TD @ 4 FT BGS									4

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-02-01**
Project: Corning Area Wide Study	Weather:	START DATE: 08/19/2024 15:00
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/19/2024 17:00
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some (-) Silt, little medium to fine Gravel (subrounded to rounded) [SM]									0
1	dry, brown coarse to fine SAND, some (-) Silt, little coarse to fine Gravel (rounded), little Cobbles (rounded) [SP]		HC	1	--	--	100	0		1
2									BOREHOLE REFUSAL AT 3.4 FT BGS. BACKFILLED WITH CLEAN CUTTINGS	2
3	dry, brown coarse to fine SAND and coarse to fine Gravel (rounded), little Silt, little Cobbles (rounded); piece of clay pipe @2.5 ft bgs [SP]									3
4	BORING TD @ 3.4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-02-02**
Project: Corning Area Wide Study	Weather:	START DATE: 08/20/2024 07:28
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/20/2024 09:45
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some (-) Silt, little (+) coarse to fine Gravel (rounded), trace Cobble [SM]									0
1	dry, brown coarse to fine SAND, some coarse to fine Gravel (rounded), little Cobble (rounded), little Silt, grading to little (+) Gravel; orange brick fragments from 2.25 to 2.5 FT BGS [SP]									1
2			HC	1	--	--	100	0	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
3										3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-02-03**
Project: Corning Area Wide Study	Weather:	START DATE: 08/20/2024 09:55
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/20/2024 11:10
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, dark brown coarse to fine SAND, some Silt, little medium (-) to fine Gavel (rounded) [SM]									0
1										1
	dry, brown coarse to fine SAND, some (-) Silt, little (+) coarse to fine Gravel, little (-) Cobble increasing @ 3.25 FT BGS to little (+) (rounded), Cobble size increases @ 2.5 FT BGS [SP]									
2			HC	1	--	--	100	0	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
3										3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-02-04**
Project: Corning Area Wide Study	Weather:	START DATE: 08/20/2024 11:18
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/20/2024 13:25
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some Silt, little medium to fine Gravel (subrounded); abundant roots [SM]									0
	dry, tannish brown coarse to fine SAND, little (+) coarse to fine Gravel (flat, subrounded), trace Cobble (subrounded); small building brick fragments present between 1.25 and 2 FT BGS [SP]									
1										1
			HC	1	--	--	100	0		
2									BOREHOLE REFUSAL @ 3.75 FT BGS; BACKFILLED WITH CLEAN CUTTINGS	2
	moist, brown coarse to fine SAND, some Silt, little (+) coarse fine Gravel, trace Cobble [SM]									
3										3
	BOREHOLE TD @ 3.75 FT BGS									
4										4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-02-05**
Project: Corning Area Wide Study	Weather:	START DATE: 08/20/2024 13:14
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/20/2024 14:30
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, dark brown coarse to fine SAND, little (+) Silt, little coarse to fine Gravel (rounded), trace (-) Cobbles (rounded); small metal and historic glass fragments present near 2 FT BGS [SP]									0
1	dry, tan brown coarse to fine SAND and Silt, little to little (+) coarse to fine Gravel (subrounded) trace Cobbles (rounded) [SM]									1
2			HC	1	--	--	100	0	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
3	dry, dark tan-brown coarse to fine SAND, little (+) Silt, little coarse to fine Gravel (subround to round), trace coarse to fine Gravel (subround) [SP]									3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-03-01**
Project: Corning Area Wide Study	Weather:	START DATE: 08/20/2024 14:52
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/20/2024 15:55
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, dark brown medium to fine SAND, some Silt, trace medium to fine Gravel (subrounded); abundant roots [SM]									0
1										1
2	dry, tannish brown coarse to fine SAND, some (-) Silt, little (+) coarse to fine Gravel, trace Cobble (rounded); red brick present from unknown depth (found in cuttings) [SM]		HC	1	--	--	100	0	REFUSAL DUE TO COBBLES; BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
3										3
4	BOREHOLE TD @ 3.75 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-03-02**
Project: Corning Area Wide Study	Weather:	START DATE: 08/21/2024 07:30
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/21/2024 10:08
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some (-) to little (+) Silt, little (-) coarse to fine Gravel (subrounded); fill present: small glass shard [SM]									0
1	dry, brown coarse to fine SAND, some (-) Silt, little (+) coarse to fine Gravel (angular and subrounded), trace Cobble (angular and subrounded); large square rock @ 1.9 FT BGS; building brick fragments present from 1-1.25 FT BGS [SM]		HC	1	--	--	100	0		1
2	BOREHOLE TD @ 2.3 FT BGS								REFUSAL @ 2.3 FT BGS IN MULTIPLE ATTEMPTS; BORINGS BACKFILLED WITH CLEAN CUTTINGS	2
3										3
4										4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-03-03**
Project: Corning Area Wide Study	Weather:	START DATE: 08/21/2024 10:25
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/21/2024 11:30
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, little (+) Silt, little coarse to fine Gravel (subrounded); nail @ 0.5 FT BGS [SP]									0
	dry, brown coarse to fine SAND, little (+) to some (-) coarse to fine Gravel (subrounded to subangular), little SIlt, trace (+) Cobble (rounded); fill present: smalll brick fragments and black coal [SP]									
1										1
2			HC	1	--	--	100	0	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
	dry, tan brown coarse to fine SAND, little (+) to some (-) coarse to fine Gravel (subrounded to subangular), little Silt, trace (+) Cobble (rounded) [SP]									
3										3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-03-04**
Project: Corning Area Wide Study	Weather:	START DATE: 08/21/2024 12:00
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/21/2024 12:45
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, some Silt, trace medium to fine Gravel (rounded); abundnat roots; small amount of ash present [SM]									0
1	dry, brown coarse to fine SAND, some Silt, trace medium to fine Gravel (rounded); large pieces of stone foundation and large amount of ash present [SM]									1
2	dry, grayish brown coarse to fine SAND, little coarse to fine Gravel (angular), little Silt; mostly fill: abundant ash and stone debris [SP]		HC	1	--	--	100	0	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
3	dry, brown Clayey SILT, little (+) medium to fine Sand, little (-) medium to fine Gravel (rounded) [ML]									3
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

DRILLING RECORD

Client: NYSDEC	Site Location: Corning, NY	BOREHOLE ID: **HGE-03-05**
Project: Corning Area Wide Study	Weather:	START DATE: 08/21/2024 13:10
Region: Corning, NY	Job #: 453071	FINISH DATE: 08/21/2024 13:45
Site: Hugh Gregg Elementary	DB ID:	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	dry, brown coarse to fine SAND, little (+) Silt, little coarse to fine Gravel (angular); abundant fill: brick, ash, slag [SP]									0
	dry, gray coarse to fine SAND, some coarse to fine Gravel (angular); abundant fill: ash, brick, slag [SP]									
1										1
2			HC	1	--	--	100	0	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	2
3										3
	dry, brown and gray Clayey SILT, some (-) medium to fine Sand; abundant fill: ash, slag, brick [ML]									
4	BOREHOLE TD @ 4 FT BGS									4
5										5

PARSONS

CONTRACTOR: ATL		
DRILLER: B. Drake	EQUIPMENT: Hand Auger	
OVERSIGHT: J. Moffitt	METHOD: Hand Core (HC)	BOREHOLE DIA.: 3 in

APPENDIX B PHOTOGRAPHIC LOG

Appendix B

The photos below document the soils and extent of ash, brick, and/or glass (ABG) at the Hugh Gregg Elementary School investigated during the Area Wide Study. Archive glass samples that were collected during the Area Wide Study are shown as well. The work was conducted in 2024.

HGE-01-01 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-01 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. Small historic glass (non-ABG) shards were encountered in this interval.

HGE-01-01 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-01 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.

HGE-01-01 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-01 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. Small historic glass shards (non-ABG) and one rusty nail were encountered in this interval.

HGE-01-02 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-02 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.

HGE-01-02 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-02 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Small building brick fragments (non-ABG) were recovered from this interval.

HGE-01-02 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-02 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was encountered in this interval.

HGE-01-03 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-03 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.

HGE-01-03 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-03 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. A layer of ash and slag was encountered in this interval from 4 to 19 inches deep.

HGE-01-03 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-03 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was observed in this interval.

HGE-01-04 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-04 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was observed in this interval.

HGE-01-04 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-04 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was observed in this interval.

HGE-01-04 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-04 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was observed in this interval.

HGE-01-05 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was observed in this interval.

HGE-01-05 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was observed in this interval.

HGE-01-05 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. A layer of glass consistent with ABG characteristics was encountered from 31 to 32 inches deep in this interval containing formed glass and ceramic shards.

HGE-01-05 (Hugh Gregg Elementary School)

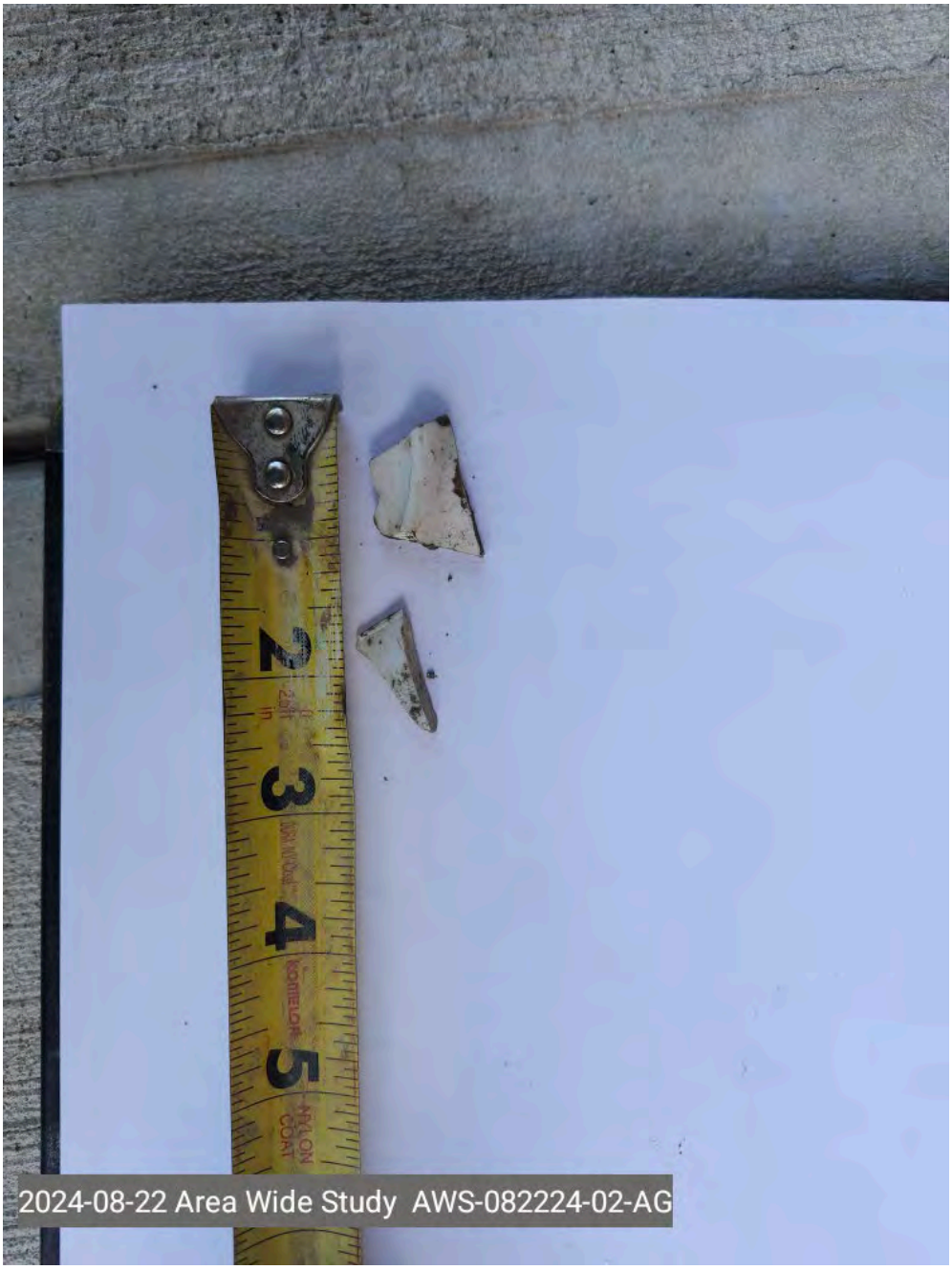


Image of ceramic shards collected as an archive sample from the 2 to 4-foot interval of HGE-01-05.

HGE-01-05 (Hugh Gregg Elementary School)

Image of glass cullet collected as an archive sample from the 2 to 4-foot interval of HGE-01-05.

HGE-02-01 (Hugh Gregg Elementary)

Photo not collected for 0-0.5 foot depth interval of HGE-02-01. No ash, brick, or glass (ABG) waste was encountered in this interval.

HGE-02-01 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-01 (Hugh Gregg Elementary). The pile of soil contains soil collected from the 0.5 to 2-foot interval. No ash, brick, or glass (ABG) was encountered in this interval.

HGE-02-01 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-01 (Hugh Gregg Elementary). The pile of soil contains soil collected from the 2 to 3.4-foot interval. This interval contained piece of clay pipe. No ash, brick, or glass (ABG) was encountered in this interval.

HGE-02-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-02 (Hugh Gregg Elementary). The pile in the image contains soil collected from the 0.0 to 0.5-foot interval. No ABG was encountered in this interval.

HGE-02-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02 -02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.

HGE-02-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-02 (Hugh Gregg Elementary). The pile of soil in the center right portion of the image contains soil collected from the 2 to 4-foot interval. Small orange brick fragments (non-ABG) were found from 2.25 to 2.5 feet in this interval.

HGE-02-03 (Hugh Gregg Elementary)

Image of soils from boring location HE-SS-02-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.

HGE-02-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.

HGE-02-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was encountered in this interval.

HGE-02-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.

HGE-02-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-04 (Hugh Gregg Elementary). The pile of soil in the center left portion of the image contains soil collected from the 0.5 to 2-foot interval. Small brick fragments (non-ABG) were encountered below 1.25 feet in this interval.

HGE-02-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-04 (Hugh Gregg Elementary). The pile of soil in the center left portion of the image contains soil collected from the 2 to 2-foot interval. Small brick fragments (non-ABG) were encountered below 1.25 feet in this interval.

HGE-02-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-05 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. Small metal pieces and a historic glass fragment (non-ABG) were found at the bottom of this interval.

HGE-02-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-05 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2-4-foot interval. No ABG was encountered in this interval.

HGE-03-01 (Hugh Gregg Elementary)

Image of soils from a boring location HGE-03-01 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.

HGE-03-01 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-01 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.

HGE-03-01 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-01 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 3.75-foot interval. Trace brick fragments (non-ABG) were identified in this interval.

HGE-03-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0-0.5-foot interval. Small historic glass shards (non-ABG) were identified in this interval.

HGE-03-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. A small historic glass shard, a large square rock, and building brick fragments (non-ABG) were encountered in this interval.

HGE-03-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 2.3-foot interval. No ABG was encountered in this interval

HGE-03-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. A nail was noted in this interval. No ABG was encountered in this interval.

HGE-03-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Trace coal and small brick fragments (non-ABG) were encountered.

HGE-03-03 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-03-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was encountered in this interval.

HGE-03-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.0 to 0.5-foot interval. Trace ash (non-ABG) is present in this interval.

HGE-03-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Abundant ash, stone foundation pieces, and stone debris (non-ABG) were identified in this interval.

HGE-03-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. Trace ash and brick fragments (non-ABG) were identified at the top of this interval.

HGE-03-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. Ash, brick, and slag (non-ABG) were encountered in this interval.

HGE-03-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Ash, brick, and slag (non-ABG) were encountered in this interval.

HGE-03-05 (Hugh Gregg Elementary) Continued

Image of soils from boring location HGE-03-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. Ash, brick, and slag were (non-ABG) encountered in this interval.

APPENDIX C ARCHIVE SAMPLE LOG

PARSONS
ARCHIVE SAMPLE RECORD

SITE NAME: Area Wide Study

SAMPLE ID: AWS-082224-01-AG

SAMPLE LOCATION: HGE-01-05 between 2.6 and 2.7 feet below ground surface; (42.1533053, -77.0635588)

DATE COLLECTED: 22-Aug-2024

ARCHIVE SAMPLE DESCRIPTION

APPROX. DIMENSIONS (inches): 1.25 X 0.9 X 0.8

SHAPE: Irregular

MATERIAL TYPE: Cullet

COLOR: Clear

NUMBER OF PIECES: 2

OPACITY: Transparent

FRACTURE/ANGULARITY: Both pieces are broken on multiple sides

UV/FLUORESCENCE TESTING: Does not fluoresce under UV light

OTHER:

Sample Photo

UV/Detail Photo

COMMENTS / MISCELLANEOUS:

PARSONS
ARCHIVE SAMPLE RECORD

SITE NAME: Area Wide Study

SAMPLE ID: AWS-082224-02-AG

SAMPLE LOCATION: HGE-01-05 between 2.6 and 2.7 feet below ground surface; (42.1533114, -77.0636659)

DATE COLLECTED: 22-Aug-2024

ARCHIVE SAMPLE DESCRIPTION

APPROX. DIMENSIONS (inches): 1.25 X 0.75 X 0.3

SHAPE: Irregular

MATERIAL TYPE: Ceramic shards

COLOR: White

NUMBER OF PIECES: 2

OPACITY: Opaque

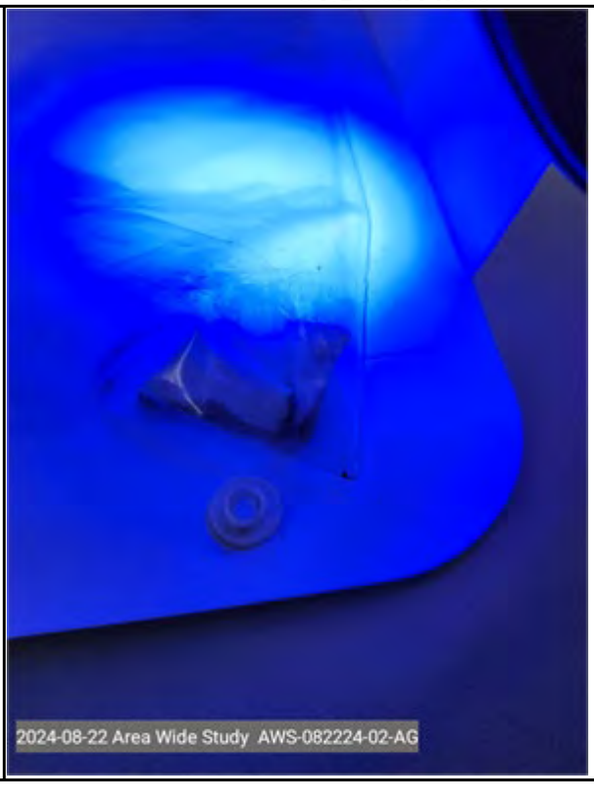
FRACTURE/ANGULARITY: Both pieces are fractured

UV/FLUORESCENCE TESTING: Does not fluoresce under UV light

OTHER:

Sample Photo

UV/Detail Photo



COMMENTS / MISCELLANEOUS:

APPENDIX D CAMP DATA

TrakPro Version 4.70 ASCII Data File

Model:	DustTrak II - Downwind
Model Number:	8530
Serial Number:	8530123601
Test ID:	1
Test Abbreviation:	MANUAL_001
Start Date:	8/19/2024
Start Time:	14:51:12
Duration (dd:hh:mm:ss):	0:02:45:00
Log Interval (mm:ss):	15:00
Number of points:	11
Notes:	

Statistics	Channel:	AEROSOL	
	Units:	mg/m^3	
	Average:		0.001
	Minimum:		0
	Time of Minimum:		15:06:12
	Date of Minimum:		8/19/2024
	Maximum:		0.001
	Time of Maximum:		15:51:12
	Date of Maximum:		8/19/2024

Calibration	Sensor:	AEROSOL
	Cal. date	3/11/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/19/2024	15:06:12	0
8/19/2024	15:21:12	0
8/19/2024	15:36:12	0
8/19/2024	15:51:12	0.001
8/19/2024	16:06:12	0
8/19/2024	16:21:12	0.001
8/19/2024	16:36:12	0
8/19/2024	16:51:12	0.001
8/19/2024	17:06:12	0.001
8/19/2024	17:21:12	0.001
8/19/2024	17:36:12	0.001

Model:	DustTrak II - Downwind
Model Number:	8530
Serial Number:	8530123601
Test ID:	2
Test Abbreviation:	MANUAL_002
Start Date:	8/20/2024
Start Time:	7:24:07
Duration (dd:hh:mm:ss):	0:08:45:00
Log Interval (mm:ss):	15:00
Number of points:	35
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.002
	Minimum:	0.002
	Time of Minimum:	7:54:07
	Date of Minimum:	8/20/2024
	Maximum:	0.003
	Time of Maximum:	7:39:07
	Date of Maximum:	8/20/2024

Calibration	Sensor:	AEROSOL
	Cal. date	3/11/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/20/2024	7:39:07	0.003
8/20/2024	7:54:07	0.002
8/20/2024	8:09:07	0.002
8/20/2024	8:24:07	0.002
8/20/2024	8:39:07	0.002
8/20/2024	8:54:07	0.002
8/20/2024	9:09:07	0.002
8/20/2024	9:24:07	0.002
8/20/2024	9:39:07	0.002
8/20/2024	9:54:07	0.002
8/20/2024	10:09:07	0.002
8/20/2024	10:24:07	0.002
8/20/2024	10:39:07	0.002
8/20/2024	10:54:07	0.003
8/20/2024	11:09:07	0.002
8/20/2024	11:24:07	0.002
8/20/2024	11:39:07	0.002
8/20/2024	11:54:07	0.003
8/20/2024	12:09:07	0.002
8/20/2024	12:24:07	0.002
8/20/2024	12:39:07	0.002
8/20/2024	12:54:07	0.003
8/20/2024	13:09:07	0.002
8/20/2024	13:24:07	0.002
8/20/2024	13:39:07	0.002
8/20/2024	13:54:07	0.002
8/20/2024	14:09:07	0.002
8/20/2024	14:24:07	0.003
8/20/2024	14:39:07	0.003
8/20/2024	14:54:07	0.003
8/20/2024	15:09:07	0.002
8/20/2024	15:24:07	0.002
8/20/2024	15:39:07	0.002
8/20/2024	15:54:07	0.002
8/20/2024	16:09:07	0.002

Model:	DustTrak II - Downwind
Model Number:	8530
Serial Number:	8530123601
Test ID:	3
Test Abbreviation:	MANUAL_003
Start Date:	8/21/2024
Start Time:	7:22:53
Duration (dd:hh:mm:ss):	0:06:15:00
Log Interval (mm:ss):	15:00
Number of points:	25
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.007
	Minimum:	0.006
	Time of Minimum:	9:22:53
	Date of Minimum:	8/21/2024
	Maximum:	0.009
	Time of Maximum:	13:07:53
	Date of Maximum:	8/21/2024

Calibration	Sensor:	AEROSOL
	Cal. date	3/11/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/21/2024	7:37:53	0.008
8/21/2024	7:52:53	0.008
8/21/2024	8:07:53	0.008
8/21/2024	8:22:53	0.007
8/21/2024	8:37:53	0.007
8/21/2024	8:52:53	0.007
8/21/2024	9:07:53	0.007
8/21/2024	9:22:53	0.006
8/21/2024	9:37:53	0.007
8/21/2024	9:52:53	0.007
8/21/2024	10:07:53	0.007
8/21/2024	10:22:53	0.006
8/21/2024	10:37:53	0.007
8/21/2024	10:52:53	0.007
8/21/2024	11:07:53	0.007
8/21/2024	11:22:53	0.007
8/21/2024	11:37:53	0.007
8/21/2024	11:52:53	0.007
8/21/2024	12:07:53	0.007
8/21/2024	12:22:53	0.007
8/21/2024	12:37:53	0.008
8/21/2024	12:52:53	0.008
8/21/2024	13:07:53	0.009
8/21/2024	13:22:53	0.009
8/21/2024	13:37:53	0.008

Model:	DustTrak II - Downwind
Model Number:	8530
Serial Number:	8530123601
Test ID:	4
Test Abbreviation:	MANUAL_004
Start Date:	8/21/2024
Start Time:	14:42:38
Duration (dd:hh:mm:ss):	0:01:00:00
Log Interval (mm:ss):	15:00
Number of points:	4
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.009
	Minimum:	0.008
	Time of Minimum:	14:57:38
	Date of Minimum:	8/21/2024
	Maximum:	0.009
	Time of Maximum:	15:12:38
	Date of Maximum:	8/21/2024

Calibration	Sensor:	AEROSOL
	Cal. date	3/11/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/21/2024	14:57:38	0.008
8/21/2024	15:12:38	0.009
8/21/2024	15:27:38	0.008
8/21/2024	15:42:38	0.009

Model:	DustTrak II - Downwind
Model Number:	8530
Serial Number:	8530123601
Test ID:	5
Test Abbreviation:	MANUAL_005
Start Date:	8/22/2024
Start Time:	7:30:36
Duration (dd:hh:mm:ss):	0:04:00:00
Log Interval (mm:ss):	15:00
Number of points:	16
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.012
	Minimum:	0.011
	Time of Minimum:	8:15:36
	Date of Minimum:	8/22/2024
	Maximum:	0.012
	Time of Maximum:	7:45:36
	Date of Maximum:	8/22/2024

Calibration	Sensor:	AEROSOL
	Cal. date	3/11/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/22/2024	7:45:36	0.012
8/22/2024	8:00:36	0.012
8/22/2024	8:15:36	0.011
8/22/2024	8:30:36	0.012
8/22/2024	8:45:36	0.011
8/22/2024	9:00:36	0.011
8/22/2024	9:15:36	0.012
8/22/2024	9:30:36	0.012
8/22/2024	9:45:36	0.011
8/22/2024	10:00:36	0.012
8/22/2024	10:15:36	0.011
8/22/2024	10:30:36	0.011
8/22/2024	10:45:36	0.011
8/22/2024	11:00:36	0.011
8/22/2024	11:15:36	0.012
8/22/2024	11:30:36	0.012

==========
24/08/15 12:45
****
Summary

Unit Name MiniRAE 3000(PGM-7320) - Downwind
Unit SN 592-912843
Unit Firmw V2.22A

Running Mo Hygiene Mode
Datalog Mo Auto
Diagnostic No
Stop Reaso Power Down

Site ID 12345678
User ID 12345678

Begin 8/15/2024 12:45
End 8/15/2024 12:45
Sample Pe 60
Number of 0

Sensor PID(ppm)
Sensor SN S023030100R6
Measure Ty Avg; Max; Real
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 25
TWA Alarm 10
Measurem Isobutylene
Calibration 8/15/2024 12:37

****
Datalog

0 record.

==========
24/08/19 14:55
****
Summary

Unit Name MiniRAE 3000(PGM-7320) - Downwind
Unit SN 592-912843
Unit Firmw V2.22A

Running Mo Hygiene Mode
Datalog Mo Auto
Diagnostic No
Stop Reaso Pause in Menu Mode

Site ID 12345678
User ID 12345678

Begin 8/19/2024 14:55
End 8/19/2024 14:55
Sample Pe 60
Number of 0

Sensor PID(ppm)
Sensor SN S023030100R6
Measure Ty Avg; Max; Real
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 25
TWA Alarm 10
Measurem Isobutylene
Calibration 8/15/2024 12:37

****
Datalog

0 record.

==========

24/08/19 14:56

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	12345678
User ID	12345678

Begin	8/19/2024 14:56
End	8/19/2024 17:43
Sample Pe	900
Number of	11

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/15/2024 12:37
Peak	0
Min	0
Average	0

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/19/2024 15:11	0	0	0
2	8/19/2024 15:26	0	0	0
3	8/19/2024 15:41	0	0	0
4	8/19/2024 15:56	0	0	0
5	8/19/2024 16:11	0	0	0
6	8/19/2024 16:26	0	0	0
7	8/19/2024 16:41	0	0	0
8	8/19/2024 16:56	0	0	0
9	8/19/2024 17:11	0	0	0
10	8/19/2024 17:26	0	0	0
11	8/19/2024 17:41	0	0	0
Peak		0	0	0
Min		0	0	0
Average		0	0	0

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/19/2024 15:11	0	0
2	8/19/2024 15:26	0	0
3	8/19/2024 15:41	0	0
4	8/19/2024 15:56	0	0
5	8/19/2024 16:11	0	0
6	8/19/2024 16:26	0	0
7	8/19/2024 16:41	0	0
8	8/19/2024 16:56	0	0
9	8/19/2024 17:11	0	0
10	8/19/2024 17:26	0	0
11	8/19/2024 17:41	0	0

==========
24/08/20 07:01
****
Summary

Unit Name MiniRAE 3000(PGM-7320) - Downwind
Unit SN 592-912843
Unit Firmw V2.22A

Running Mo Hygiene Mode
Datalog Mo Auto
Diagnostic No
Stop Reaso Pause in Menu Mode

Site ID 12345678
User ID 12345678

Begin 8/20/2024 7:01
End 8/20/2024 7:01
Sample Pe 900
Number of 0

Sensor PID(ppm)
Sensor SN S023030100R6
Measure Ty Avg; Max; Real
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 25
TWA Alarm 10
Measurem Isobutylene
Calibration 8/15/2024 12:37

****
Datalog

0 record.

==========
24/08/20 07:24
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A
Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down
Site ID	12345678
User ID	12345678
Begin	8/20/2024 7:24
End	8/20/2024 16:18
Sample Pe	900
Number of	35
Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/20/2024 7:04
Peak	0.1
Min	0
Average	0.1

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/20/2024 7:39	0	0	0
2	8/20/2024 7:54	0	0	0
3	8/20/2024 8:09	0	0	0
4	8/20/2024 8:24	0	0	0
5	8/20/2024 8:39	0	0	0
6	8/20/2024 8:54	0	0	0
7	8/20/2024 9:09	0	0	0
8	8/20/2024 9:24	0	0	0
9	8/20/2024 9:39	0	0	0
10	8/20/2024 9:54	0	0.1	0.1
11	8/20/2024 10:09	0.1	0.1	0.1
12	8/20/2024 10:24	0.1	0.1	0.1
13	8/20/2024 10:39	0.1	0.1	0.1
14	8/20/2024 10:54	0.1	0.1	0.1
15	8/20/2024 11:09	0.1	0.1	0.1
16	8/20/2024 11:24	0.1	0.1	0.1
17	8/20/2024 11:39	0.1	0.1	0.1
18	8/20/2024 11:54	0.1	0.1	0.1
19	8/20/2024 12:09	0.1	0.1	0.1
20	8/20/2024 12:24	0.1	0.1	0.1
21	8/20/2024 12:39	0.1	0.1	0.1
22	8/20/2024 12:54	0.1	0.1	0.1
23	8/20/2024 13:09	0.1	0.1	0.1
24	8/20/2024 13:24	0.1	0.1	0.1
25	8/20/2024 13:39	0.1	0.1	0.1
26	8/20/2024 13:54	0.1	0.1	0
27	8/20/2024 14:09	0.1	0.1	0.1
28	8/20/2024 14:24	0.1	0.1	0.1
29	8/20/2024 14:39	0.1	0.1	0.1
30	8/20/2024 14:54	0.1	0.1	0.1
31	8/20/2024 15:09	0.1	0.1	0.1
32	8/20/2024 15:24	0.1	0.1	0.1
33	8/20/2024 15:39	0.1	0.1	0
34	8/20/2024 15:54	0.1	0.1	0.1
35	8/20/2024 16:09	0.1	0.1	0
Peak		0.1	0.1	0.1
Min		0	0	0
Average		0.1	0.1	0.1

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/20/2024 7:39	0	0
2	8/20/2024 7:54	0	0
3	8/20/2024 8:09	0	0
4	8/20/2024 8:24	0	0
5	8/20/2024 8:39	0	0
6	8/20/2024 8:54	0	0
7	8/20/2024 9:09	0	0
8	8/20/2024 9:24	0	0
9	8/20/2024 9:39	0	0
10	8/20/2024 9:54	0	0.1
11	8/20/2024 10:09	0	0.2
12	8/20/2024 10:24	0	0.2
13	8/20/2024 10:39	0	0.2
14	8/20/2024 10:54	0	0.2
15	8/20/2024 11:09	0	0.2
16	8/20/2024 11:24	0	0.2
17	8/20/2024 11:39	0	0.2
18	8/20/2024 11:54	0	0.2
19	8/20/2024 12:09	0	0.2
20	8/20/2024 12:24	0	0.2
21	8/20/2024 12:39	0	0.2
22	8/20/2024 12:54	0	0.2
23	8/20/2024 13:09	0	0.2
24	8/20/2024 13:24	0	0.2
25	8/20/2024 13:39	0.1	0.2
26	8/20/2024 13:54	0.1	0.1
27	8/20/2024 14:09	0.1	0.1
28	8/20/2024 14:24	0.1	0.2
29	8/20/2024 14:39	0.1	0.2
30	8/20/2024 14:54	0.1	0.2
31	8/20/2024 15:09	0.1	0.2
32	8/20/2024 15:24	0.1	0.2
33	8/20/2024 15:39	0.1	0.1
34	8/20/2024 15:54	0.1	0.1
35	8/20/2024 16:09	0.1	0.1

==========
24/08/21 07:08
****
Summary

Unit Name MiniRAE 3000(PGM-7320) - Downwind
Unit SN 592-912843
Unit Firmw V2.22A

Running Mo Hygiene Mode
Datalog Mo Auto
Diagnostic No
Stop Reaso Pause in Menu Mode

Site ID 12345678
User ID 12345678

Begin 8/21/2024 7:08
End 8/21/2024 7:08
Sample Pe 900
Number of 0

Sensor PID(ppm)
Sensor SN S023030100R6
Measure Ty Avg; Max; Real
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 25
TWA Alarm 10
Measurem Isobutylene
Calibration 8/20/2024 7:04

****
Datalog

0 record.

==========

24/08/21 07:28

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	12345678
User ID	12345678

Begin	8/21/2024 7:28
End	8/21/2024 13:55
Sample Pe	900
Number of	25

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/21/2024 7:11
Peak	0.2
Min	0
Average	0.1

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/21/2024 7:43	0	0.1	0
2	8/21/2024 7:58	0	0	0
3	8/21/2024 8:13	0	0	0
4	8/21/2024 8:28	0	0.1	0
5	8/21/2024 8:43	0.1	0.1	0.1
6	8/21/2024 8:58	0.1	0.1	0.1
7	8/21/2024 9:13	0.1	0.1	0.1
8	8/21/2024 9:28	0.1	0.1	0.1
9	8/21/2024 9:43	0.1	0.1	0.1
10	8/21/2024 9:58	0.1	0.1	0.1
11	8/21/2024 10:13	0.1	0.2	0.1
12	8/21/2024 10:28	0.2	0.2	0.2
13	8/21/2024 10:43	0.2	0.2	0.2
14	8/21/2024 10:58	0.2	0.2	0.2
15	8/21/2024 11:13	0.2	0.2	0.2
16	8/21/2024 11:28	0.2	0.2	0.2
17	8/21/2024 11:43	0.2	0.2	0.2
18	8/21/2024 11:58	0.2	0.2	0.2
19	8/21/2024 12:13	0.2	0.2	0.2
20	8/21/2024 12:28	0.2	0.2	0.2
21	8/21/2024 12:43	0.2	0.2	0.2
22	8/21/2024 12:58	0.2	0.2	0.2
23	8/21/2024 13:13	0.1	0.2	0.1
24	8/21/2024 13:28	0.1	0.1	0.1
25	8/21/2024 13:43	0.1	0.2	0.1
Peak		0.2	0.2	0.2
Min		0	0	0
Average		0.1	0.1	0.1

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/21/2024 7:43	0	0
2	8/21/2024 7:58	0	0
3	8/21/2024 8:13	0	0
4	8/21/2024 8:28	0	0
5	8/21/2024 8:43	0	0.1
6	8/21/2024 8:58	0	0.2
7	8/21/2024 9:13	0	0.2
8	8/21/2024 9:28	0	0.2
9	8/21/2024 9:43	0	0.2
10	8/21/2024 9:58	0	0.2
11	8/21/2024 10:13	0	0.2
12	8/21/2024 10:28	0	0.3
13	8/21/2024 10:43	0	0.4
14	8/21/2024 10:58	0	0.4
15	8/21/2024 11:13	0	0.4
16	8/21/2024 11:28	0.1	0.4
17	8/21/2024 11:43	0.1	0.4
18	8/21/2024 11:58	0.1	0.4
19	8/21/2024 12:13	0.1	0.4
20	8/21/2024 12:28	0.1	0.4
21	8/21/2024 12:43	0.1	0.4
22	8/21/2024 12:58	0.1	0.4
23	8/21/2024 13:13	0.1	0.3
24	8/21/2024 13:28	0.1	0.2
25	8/21/2024 13:43	0.1	0.2

==========

24/08/21 14:48

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	12345678
User ID	12345678

Begin	8/21/2024 14:48
End	8/21/2024 16:03
Sample Pe	900
Number of	4

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/21/2024 7:11
Peak	0.2
Min	0.1
Average	0.1

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/21/2024 15:03	0.1	0.2	0.1
2	8/21/2024 15:18	0.1	0.1	0.1
3	8/21/2024 15:33	0.1	0.2	0.1
4	8/21/2024 15:48	0.2	0.2	0.2
Peak		0.2	0.2	0.2
Min		0.1	0.1	0.1
Average		0.1	0.2	0.1

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/21/2024 15:03	0	0.1
2	8/21/2024 15:18	0	0.2
3	8/21/2024 15:33	0	0.2
4	8/21/2024 15:48	0	0.3

==========

24/08/22 07:18

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Pause in Menu Mode

Site ID	12345678
User ID	12345678

Begin	8/22/2024 7:18
End	8/22/2024 7:18
Sample Pe	900
Number of	0

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/21/2024 7:11

****

Datalog

0 record.

==========

24/08/22 07:36

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Pause in Menu Mode

Site ID	12345678
User ID	12345678

Begin	8/22/2024 7:36
End	8/22/2024 10:06
Sample Pe	900
Number of	10

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/22/2024 7:21
Peak	0.1
Min	0
Average	0

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/22/2024 7:51	0	0	0
2	8/22/2024 8:06	0	0	0
3	8/22/2024 8:21	0	0	0
4	8/22/2024 8:36	0	0	0
5	8/22/2024 8:51	0	0.1	0
6	8/22/2024 9:06	0	0.1	0
7	8/22/2024 9:21	0.1	0.1	0.1
8	8/22/2024 9:36	0.1	0.1	0.1
9	8/22/2024 9:51	0.1	0.1	0.1
10	8/22/2024 10:06	0.1	0.1	0.1
Peak		0.1	0.1	0.1
Min		0	0	0
Average		0	0.1	0

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/22/2024 7:51	0	0
2	8/22/2024 8:06	0	0
3	8/22/2024 8:21	0	0
4	8/22/2024 8:36	0	0
5	8/22/2024 8:51	0	0
6	8/22/2024 9:06	0	0
7	8/22/2024 9:21	0	0.1
8	8/22/2024 9:36	0	0.2
9	8/22/2024 9:51	0	0.2
10	8/22/2024 10:06	0	0.2

==========

24/08/22 10:08

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	12345678
User ID	12345678

Begin	8/22/2024 10:08
End	8/22/2024 11:48
Sample Pe	900
Number of	6

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/22/2024 7:21
Peak	0.1
Min	0
Average	0.1

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/22/2024 10:23	0	0	0
2	8/22/2024 10:38	0	0.1	0
3	8/22/2024 10:53	0.1	0.1	0.1
4	8/22/2024 11:08	0.1	0.1	0.1
5	8/22/2024 11:23	0.1	0.1	0.1
6	8/22/2024 11:38	0.1	0.1	0.1
Peak		0.1	0.1	0.1
Min		0	0	0
Average		0.1	0.1	0.1

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/22/2024 10:23	0	0
2	8/22/2024 10:38	0	0
3	8/22/2024 10:53	0	0.1
4	8/22/2024 11:08	0	0.2
5	8/22/2024 11:23	0	0.2
6	8/22/2024 11:38	0	0.2

==========

24/08/26 11:00

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Downwind
Unit SN	592-912843
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Pause in Menu Mode

Site ID	12345678
User ID	12345678

Begin	8/26/2024 11:00
End	8/26/2024 11:00
Sample Pe	900
Number of	0

Sensor	PID(ppm)
Sensor SN	S023030100R6
Measure Ty	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurem	Isobutylene
Calibration	8/22/2024 7:21

****

Datalog

0 record.

==========

TrakPro Version 4.70 ASCII Data File

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	001
Test Abbreviation:	MANUAL_001
Start Date:	8/19/2024
Start Time:	14:48:17
Duration (dd:hh:mm:	0:02:44:00
Log Interval (mm:ss):	15:00
Number of points:	11
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.002
	Minimum:	0
	Time of Minimu	15:03:17
	Date of Minimu	8/19/2024
	Maximum:	0.004
	Time of Maximu	17:03:17
	Date of Maximu	8/19/2024

Calibration	Sensor:	AEROSOL
	Cal. date	7/18/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/19/2024	15:03:17	0
8/19/2024	15:18:17	0
8/19/2024	15:33:17	0.001
8/19/2024	15:48:17	0.002
8/19/2024	16:03:17	0.002
8/19/2024	16:18:17	0.003
8/19/2024	16:33:17	0.003
8/19/2024	16:48:17	0.003
8/19/2024	17:03:17	0.004
8/19/2024	17:18:17	0.004
8/19/2024	17:32:18	0

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	002
Test Abbreviation:	MANUAL_002
Start Date:	8/20/2024
Start Time:	7:26:20
Duration (dd:hh:mm:	0:08:30:00
Log Interval (mm:ss):	15:00
Number of points:	34
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.009
	Minimum:	0.007
	Time of Minimu	7:56:20
	Date of Minimu	8/20/2024
	Maximum:	0.011
	Time of Maximu	12:56:20
	Date of Maximu	8/20/2024

Calibration	Sensor:	AEROSOL
	Cal. date	7/18/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/20/2024	7:41:20	0.008
8/20/2024	7:56:20	0.007
8/20/2024	8:11:20	0.008
8/20/2024	8:26:20	0.007
8/20/2024	8:41:20	0.007
8/20/2024	8:56:20	0.007
8/20/2024	9:11:20	0.007
8/20/2024	9:26:20	0.007
8/20/2024	9:41:20	0.007
8/20/2024	9:56:20	0.007
8/20/2024	10:11:20	0.008
8/20/2024	10:26:20	0.008
8/20/2024	10:41:20	0.008
8/20/2024	10:56:20	0.009
8/20/2024	11:11:20	0.009
8/20/2024	11:26:20	0.009
8/20/2024	11:41:20	0.01
8/20/2024	11:56:20	0.01
8/20/2024	12:11:20	0.01
8/20/2024	12:26:20	0.01
8/20/2024	12:41:20	0.01
8/20/2024	12:56:20	0.011
8/20/2024	13:11:20	0.011
8/20/2024	13:26:20	0.011
8/20/2024	13:41:20	0.011
8/20/2024	13:56:20	0.011
8/20/2024	14:11:20	0.011
8/20/2024	14:26:20	0.011
8/20/2024	14:41:20	0.011
8/20/2024	14:56:20	0.011
8/20/2024	15:11:20	0.01
8/20/2024	15:26:20	0.011
8/20/2024	15:41:20	0.011
8/20/2024	15:56:20	0.011

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	003
Test Abbreviation:	MANUAL_003
Start Date:	8/21/2024
Start Time:	7:26:11
Duration (dd:hh:mm:	0:06:15:00
Log Interval (mm:ss):	15:00
Number of points:	25
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.01
	Minimum:	0.007
	Time of Minimu	7:56:11
	Date of Minimu	8/21/2024
	Maximum:	0.014
	Time of Maximu	12:56:11
	Date of Maximu	8/21/2024

Calibration	Sensor:	AEROSOL
	Cal. date	7/18/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/21/2024	7:41:11	0.008
8/21/2024	7:56:11	0.007
8/21/2024	8:11:11	0.007
8/21/2024	8:26:11	0.007
8/21/2024	8:41:11	0.007
8/21/2024	8:56:11	0.007
8/21/2024	9:11:11	0.007
8/21/2024	9:26:11	0.007
8/21/2024	9:41:11	0.008
8/21/2024	9:56:11	0.009
8/21/2024	10:11:11	0.009
8/21/2024	10:26:11	0.009
8/21/2024	10:41:11	0.01
8/21/2024	10:56:11	0.01
8/21/2024	11:11:11	0.011
8/21/2024	11:26:11	0.011
8/21/2024	11:41:11	0.011
8/21/2024	11:56:11	0.012
8/21/2024	12:11:11	0.012
8/21/2024	12:26:11	0.013
8/21/2024	12:41:11	0.013
8/21/2024	12:56:11	0.014
8/21/2024	13:11:11	0.013
8/21/2024	13:26:11	0.012
8/21/2024	13:41:11	0.012

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	004
Test Abbreviation:	MANUAL_004
Start Date:	8/21/2024
Start Time:	14:45:17
Duration (dd:hh:mm:	0:01:00:00
Log Interval (mm:ss):	15:00
Number of points:	4
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.011
	Minimum:	0.01
	Time of Minimu	15:30:17
	Date of Minimu	8/21/2024
	Maximum:	0.012
	Time of Maximu	15:00:17
	Date of Maximu	8/21/2024

Calibration	Sensor:	AEROSOL
	Cal. date	7/18/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/21/2024	15:00:17	0.012
8/21/2024	15:15:17	0.011
8/21/2024	15:30:17	0.01
8/21/2024	15:45:17	0.011

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	005
Test Abbreviation:	MANUAL_005
Start Date:	8/22/2024
Start Time:	7:27:52
Duration (dd:hh:mm:	0:04:15:00
Log Interval (mm:ss):	15:00
Number of points:	17
Notes:	

Statistics	Channel:	AEROSOL
	Units:	mg/m^3
	Average:	0.013
	Minimum:	0.01
	Time of Minimu	8:27:52
	Date of Minimu	8/22/2024
	Maximum:	0.017
	Time of Maximu	11:42:52
	Date of Maximu	8/22/2024

Calibration	Sensor:	AEROSOL
	Cal. date	7/18/2024

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
8/22/2024	7:42:52	0.012
8/22/2024	7:57:52	0.012
8/22/2024	8:12:52	0.011
8/22/2024	8:27:52	0.01
8/22/2024	8:42:52	0.01
8/22/2024	8:57:52	0.01
8/22/2024	9:12:52	0.01
8/22/2024	9:27:52	0.012
8/22/2024	9:42:52	0.012
8/22/2024	9:57:52	0.013
8/22/2024	10:12:52	0.014
8/22/2024	10:27:52	0.014
8/22/2024	10:42:52	0.014
8/22/2024	10:57:52	0.015
8/22/2024	11:12:52	0.015
8/22/2024	11:27:52	0.016
8/22/2024	11:42:52	0.017

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	006
Test Abbreviation:	MANUAL_006
Start Date:	8/26/2024
Start Time:	11:25:48
Duration (dd:hh:mm:	0:05:15:00
Log Interval (mm:ss):	15:00
Number of points:	21
Notes:	

==========
24/08/15 13:34
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down
Site ID	12345678
User ID	12345678
Begin	8/15/2024 13:34
End	8/15/2024 13:34
Sample Period(s)	60
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/15/2024 13:27

****
Datalog

0 record.

==========
24/08/19 15:38
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode
Site ID	12345678
User ID	12345678
Begin	8/19/2024 15:38
End	8/19/2024 15:39
Sample Period(s)	60
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/15/2024 13:27

****
Datalog

0 record.

==========
24/08/19 15:40
****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down
Site ID	12345678
User ID	12345678
Begin	8/19/2024 15:40
End	8/19/2024 18:24
Sample Period(s)	900
Number of Records	10
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/15/2024 13:27
Peak	0.6
Min	0
Average	0.3

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/19/2024 15:55	0	0	0
2	8/19/2024 16:10	0	0	0
3	8/19/2024 16:25	0	0.1	0.1
4	8/19/2024 16:40	0.2	0.2	0.2
5	8/19/2024 16:55	0.2	0.3	0.3
6	8/19/2024 17:10	0.3	0.4	0.4
7	8/19/2024 17:25	0.4	0.4	0.4
8	8/19/2024 17:40	0.5	0.5	0.5
9	8/19/2024 17:55	0.5	0.6	0.6
10	8/19/2024 18:10	0.6	0.6	0.6
Peak		0.6	0.6	0.6
Min		0	0	0
Average		0.3	0.3	0.3

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/19/2024 15:55	0	0
2	8/19/2024 16:10	0	0
3	8/19/2024 16:25	0	0.1
4	8/19/2024 16:40	0	0.3
5	8/19/2024 16:55	0	0.5
6	8/19/2024 17:10	0	0.7
7	8/19/2024 17:25	0	0.8
8	8/19/2024 17:40	0.1	0.9
9	8/19/2024 17:55	0.1	1.1
10	8/19/2024 18:10	0.1	1.2

==========

24/08/20 07:50

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22

Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode

Site ID	12345678
User ID	12345678

Begin	8/20/2024 7:50
End	8/20/2024 7:50
Sample Period(s)	900
Number of Records	0

Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/15/2024 13:27

****

Datalog

0 record.

==========
24/08/20 08:12
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode
Site ID	12345678
User ID	12345678
Begin	8/20/2024 8:12
End	8/20/2024 8:12
Sample Period(s)	900
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/20/2024 7:53

****
Datalog

0 record.

==========
24/08/20 08:14
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Battery Low
Site ID	12345678
User ID	12345678
Begin	8/20/2024 8:14
End	8/20/2024 16:04
Sample Period(s)	900
Number of Records	31
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/20/2024 7:53
Peak	0.6
Min	0.2
Average	0.5

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/20/2024 8:29	0.1	0.2	0.2
2	8/20/2024 8:44	0.2	0.2	0.2
3	8/20/2024 8:59	0.3	0.3	0.3
4	8/20/2024 9:14	0.3	0.3	0.3
5	8/20/2024 9:29	0.3	0.3	0.3
6	8/20/2024 9:44	0.3	0.4	0.3
7	8/20/2024 9:59	0.4	0.4	0.4
8	8/20/2024 10:14	0.4	0.4	0.4
9	8/20/2024 10:29	0.4	0.5	0.4
10	8/20/2024 10:44	0.5	0.5	0.5
11	8/20/2024 10:59	0.5	0.5	0.5
12	8/20/2024 11:14	0.5	0.6	0.5
13	8/20/2024 11:29	0.5	0.6	0.5
14	8/20/2024 11:44	0.6	0.6	0.6
15	8/20/2024 11:59	0.6	0.6	0.5
16	8/20/2024 12:14	0.6	0.6	0.6
17	8/20/2024 12:29	0.6	0.6	0.6
18	8/20/2024 12:44	0.6	0.6	0.6
19	8/20/2024 12:59	0.6	0.6	0.6
20	8/20/2024 13:14	0.6	0.6	0.6
21	8/20/2024 13:29	0.6	0.6	0.6
22	8/20/2024 13:44	0.6	0.6	0.6
23	8/20/2024 13:59	0.6	0.7	0.6
24	8/20/2024 14:14	0.6	0.6	0.5
25	8/20/2024 14:29	0.5	0.5	0.5
26	8/20/2024 14:44	0.5	0.6	0.5
27	8/20/2024 14:59	0.5	0.5	0.5
28	8/20/2024 15:14	0.5	0.5	0.5
29	8/20/2024 15:29	0.5	0.5	0.5
30	8/20/2024 15:44	0.5	0.5	0.5
31	8/20/2024 15:59	0.5	0.5	0.5
Peak		0.6	0.7	0.6
Min		0.1	0.2	0.2
Average		0.5	0.5	0.5

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/20/2024 8:29	0	0.2
2	8/20/2024 8:44	0	0.4
3	8/20/2024 8:59	0	0.5
4	8/20/2024 9:14	0	0.6
5	8/20/2024 9:29	0	0.6
6	8/20/2024 9:44	0.1	0.6
7	8/20/2024 9:59	0.1	0.7
8	8/20/2024 10:14	0.1	0.8
9	8/20/2024 10:29	0.1	0.8
10	8/20/2024 10:44	0.1	0.9
11	8/20/2024 10:59	0.1	1
12	8/20/2024 11:14	0.1	1
13	8/20/2024 11:29	0.1	1
14	8/20/2024 11:44	0.2	1.1
15	8/20/2024 11:59	0.2	1.1
16	8/20/2024 12:14	0.2	1.1
17	8/20/2024 12:29	0.2	1.2
18	8/20/2024 12:44	0.2	1.2
19	8/20/2024 12:59	0.3	1.2
20	8/20/2024 13:14	0.3	1.2
21	8/20/2024 13:29	0.3	1.2
22	8/20/2024 13:44	0.3	1.2
23	8/20/2024 13:59	0.3	1.2
24	8/20/2024 14:14	0.3	1.1
25	8/20/2024 14:29	0.4	1
26	8/20/2024 14:44	0.4	1
27	8/20/2024 14:59	0.4	1
28	8/20/2024 15:14	0.4	1
29	8/20/2024 15:29	0.4	1
30	8/20/2024 15:44	0.4	1
31	8/20/2024 15:59	0.5	1

==========

24/08/21 07:56

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22

Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode

Site ID	12345678
User ID	12345678

Begin	8/21/2024 7:56
End	8/21/2024 7:57
Sample Period(s)	900
Number of Records	0

Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/20/2024 7:53

****

Datalog

0 record.

==========
24/08/21 14:46
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down
Site ID	12345678
User ID	12345678
Begin	8/21/2024 14:46
End	8/21/2024 14:46
Sample Period(s)	900
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/21/2024 7:59

****
Datalog

0 record.

==========

24/08/21 15:39

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22

Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	12345678
User ID	12345678

Begin	8/21/2024 15:39
End	8/21/2024 16:48
Sample Period(s)	900
Number of Records	4

Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/21/2024 7:59
Peak	1
Min	0.7
Average	0.9

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/21/2024 15:54	0.7	0.8	0.7
2	8/21/2024 16:09	0.8	0.8	0.8
3	8/21/2024 16:24	0.9	1.4	1
4	8/21/2024 16:39	1	1.1	1
Peak		1	1.4	1
Min		0.7	0.8	0.7
Average		0.9	1	0.9

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/21/2024 15:54	0	0.7
2	8/21/2024 16:09	0	1.5
3	8/21/2024 16:24	0.1	1.8
4	8/21/2024 16:39	0.1	2

==========
24/08/22 08:06
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode
Site ID	12345678
User ID	12345678
Begin	8/22/2024 8:06
End	8/22/2024 8:07
Sample Period(s)	900
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/21/2024 7:59

****
Datalog

0 record.

==========
24/08/22 08:21
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22
Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode
Site ID	12345678
User ID	12345678
Begin	8/22/2024 8:21
End	8/22/2024 8:21
Sample Period(s)	900
Number of Records	0
Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/22/2024 8:09

****
Datalog

0 record.

==========
24/08/22 08:22
****
Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22

Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Pause in Menu Mode

Site ID	12345678
User ID	12345678

Begin	8/22/2024 8:22
End	8/22/2024 10:58
Sample Period(s)	900
Number of Records	10

Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/22/2024 8:09
Peak	0.9
Min	0.1
Average	0.5

****
Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/22/2024 8:37	0.1	0.1	0.1
2	8/22/2024 8:52	0.1	0.2	0.2
3	8/22/2024 9:07	0.2	0.3	0.2
4	8/22/2024 9:22	0.3	0.4	0.3
5	8/22/2024 9:37	0.4	0.5	0.5
6	8/22/2024 9:52	0.5	0.6	0.6
7	8/22/2024 10:07	0.6	0.7	0.7
8	8/22/2024 10:22	0.7	0.8	0.8
9	8/22/2024 10:37	0.8	0.8	0.8
10	8/22/2024 10:52	0.9	0.9	0.9
Peak		0.9	0.9	0.9
Min		0.1	0.1	0.1
Average		0.5	0.5	0.5

****
TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/22/2024 8:37	0	0.1
2	8/22/2024 8:52	0	0.3
3	8/22/2024 9:07	0	0.4
4	8/22/2024 9:22	0	0.5
5	8/22/2024 9:37	0	0.8
6	8/22/2024 9:52	0.1	1.1
7	8/22/2024 10:07	0.1	1.3
8	8/22/2024 10:22	0.1	1.5
9	8/22/2024 10:37	0.1	1.6
10	8/22/2024 10:52	0.2	1.7

==========

24/08/22 11:01

****

Summary

Unit Name	MiniRAE 3000(PGM-7320) - Upwind
Unit SN	592-918988
Unit Firmware Ver	V2.22

Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	12345678
User ID	12345678

Begin	8/22/2024 11:01
End	8/22/2024 12:38
Sample Period(s)	900
Number of Records	6

Sensor	PID(ppm)
Sensor SN	S023030089A2
Measure Type	Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	100
TWA Alarm	50
Measurement Gas	Isobutylene
Calibration Time	8/22/2024 8:09
Peak	0.3
Min	0
Average	0.2

****

Datalog

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	8/22/2024 11:16	0	0	0
2	8/22/2024 11:31	0.1	0.2	0.1
3	8/22/2024 11:46	0.2	0.2	0.2
4	8/22/2024 12:01	0.2	0.2	0.2
5	8/22/2024 12:16	0.2	0.2	0.2
6	8/22/2024 12:31	0.3	0.3	0.3
Peak		0.3	0.3	0.3
Min		0	0	0
Average		0.2	0.2	0.2

****

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
1	8/22/2024 11:16	0	0
2	8/22/2024 11:31	0	0.1
3	8/22/2024 11:46	0	0.3
4	8/22/2024 12:01	0	0.4
5	8/22/2024 12:16	0	0.4
6	8/22/2024 12:31	0	0.5

APPENDIX E DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

HUGH W. GREGG ELEMENTARY SCHOOL CORNING AREA WIDE STUDY

SITE NUMBER 851074

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7012

Prepared By:

301 Plainfield Road, Suite 350
Syracuse, New York 13212

JANUARY 2025

TABLE OF CONTENTS

LIST OF ATTACHMENTS

SECTION 1 DATA USABILITY SUMMARY

Soil samples were collected from the Corning Area Wide Study site on August 20, 2024 through August 22, 2024. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Project Work Plan,
- USEPA analytical methodologies,
- *National Functional Guidelines for Organic Superfund Methods Data Review*, USEPA 540-R-20-005, November 2020;
- *National Functional Guidelines for Inorganic Superfund Methods Data Review*, USEPA 542-R-20-006, November 2020;
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review, and
- *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, dated April 2023.

The analytical laboratory for this project was Pace – New England (Pace). This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 Laboratory Data Packages

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 34-38 days for the project samples. The data packages received from the laboratory were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 Sampling and Chain-of-Custody

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at the laboratory within one to two days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 Laboratory Analytical Methods

The soil samples that were collected from the site were analyzed for semivolatile organic compounds (SVOCs), 1,4-dioxane, per- and polyfluoroalkyl substances (PFAS), and metals. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,
"UJ" - estimated and not detected at the value given,
"J" - estimated at the value given,

"J+" - estimated biased high at the value given,
"J-" - estimated biased low at the value given,
"N" - presumptive evidence at the value given, and
"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Semivolatile Organic Analysis

The project samples were analyzed for SVOCs including 1,4-dioxane using the USEPA SW-846 8270E/8270E SIM analytical method. Certain reported results for these samples were qualified as estimated based upon laboratory control sample (LCS) recoveries and instrument calibrations. Certain reported results for these samples were qualified as unusable "R" based upon poor instrument calibrations. The reported SVOC analytical results were considered 98.6% complete (i.e., usable) for the project data presented by the laboratory. PARCCS requirements were met overall.

1.3.2 PFAS Organic Analysis

The project samples were analyzed for PFAS using the draft USEPA 1633 analytical method. Certain reported results for these samples were qualified as estimated based upon surrogate recoveries and sample result identifications. The reported PFAS analytical results were considered 100% complete (i.e., usable) for the project data presented by the laboratory. PARCCS requirements were met.

1.3.3 Metals Analysis

The project samples were analyzed for metals using the USEPA SW-846 6010D and 7471B analytical methods. Certain reported results for these samples were qualified as estimated based upon matrix spike/matrix spike duplicate (MS/MSD) recoveries and LCS recoveries. The reported metals analytical results were considered 100% complete (i.e., usable) for the project data presented by the laboratory. PARCCS requirements were met.

SECTION 2 DATA VALIDATION REPORT

2.1 Soil Samples

Data review has been completed for data packages containing soil samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) 24H3010, 24H3407, and 24H3410. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory.

Data validation was performed for all samples in accordance with the most current editions of the USEPA National Functional Guidelines for organic and inorganic data review, the USEPA Region II SOPs for organic and inorganic data review, analytical methodologies, and the *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, dated April 2023. The validated laboratory data are presented in Attachment A. Certain samples may have required dilution prior to analysis based upon sample matrix, color of extract, or large concentrations of target or non-target analytes. This data validation and usability report is presented by analysis type.

2.1.1 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and field QC equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of LCS recoveries and initial and continuing calibrations as discussed below.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the LCS recoveries for hexachlorocyclopentadiene (30.1%R, 28.3%R; QC limit 40-140%R) and pyridine (26.1%R, 24.7%R; QC limit 30-140%R) associated with samples in SDG 24H3407; and pyridine (22.4%R, 23.0%R; QC limit 30-140%R) associated with samples in SDG 24H3410. Therefore, results for these compounds which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with minimum average relative response factors (RRFs) of 0.05, maximum relative standard deviations (%RSDs) of 20%, and maximum percent differences (%Ds) within ±30% with the exception of hexachlorocyclopentadiene (-41.4%D), benzaldehyde (-52.3%D), aniline (-40.0%D), 4-

chloroaniline (-48.0%D), 2,4-dimethylphenol (-38.4%D), and 2,3,4,6-tetrachlorophenol (114%D) in the initial calibration verification associated with samples in SDGs 24H3407 and 24H3410. Therefore, results for these compounds with the exception of 2,3,4,6-tetrachlorophenol were considered estimated and qualified "UJ" for the affected samples. The nondetected results for 2,3,4,6-tetrachlorophenol were considered unusable and qualified "R" for the affected samples.

All continuing calibration compounds were compliant with minimum relative response factors (RRFs) of 0.05 and maximum percent differences (%Ds) within ±20% with the exception of hexachlorocyclopentadiene (-64.5%D), 2,4-dinitrophenol (-28.6%D), pentachlorophenol (-29.4%D), and 2,3,4,6-tetrachlorophenol (90.5%D) in the continuing calibration associated with samples in SDG 24H3407; and aniline (24.5%D), benzo(g,h,i)perylene (31.4%D), dibenz(a,h)anthracene (32.3%D), di-n-octylphthalate (25.9%D), hexachlorocyclopentadiene (-37.4%D), indeno(1,2,3-cd)pyrene (27.7%D), and 2,3,4,6-tetrachlorophenol (95.9%D) in the continuing calibration associated with samples in SDG 24H3410. Therefore, results for these compounds with the exception of 2,3,4,6-tetrachlorophenol were considered estimated and qualified "UJ" for the affected samples. The nondetected results for 2,3,4,6-tetrachlorophenol were considered unusable and qualified "R" for the affected samples.

Usability

All semivolatile soil sample results were considered usable following data validation with the exception of the nondetected 2,3,4,6-tetrachlorophenol results based upon poor instrument calibrations.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The semivolatile soil data presented by the laboratory were 98.6% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A.

2.1.2 PFAS

The following items were reviewed for compliancy in the PFAS analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and field QC equipment/field blank contamination
- Instrument performance
- Initial and continuing calibrations
- Internal standard responses
- Sample result verification and identification
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries and sample result identifications as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low surrogate recoveries for d3-NMeFOSA (QC limit 15-130%R) and d5-NEtFOSA (QC limit 10-130%R) in samples

with lab IDs 24H3407-02 (14.2%R and 8.31%R, respectively) and 24H3410-02 (10.7%R and 6.61%R, respectively). Therefore, the associated results which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Sample Result Identifications

It was noted that the mass ion ratio exceeded the QC limit for PFPeA in sample with lab ID 24H3407-02 and PFDS in sample with lab ID 24H3410-02. Therefore, results for these compounds were considered estimated, tentatively identified, and qualified "JN" for the affected samples.

Usability

All PFAS soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The PFAS soil data presented by the laboratory were 100% complete (i.e., usable). The validated PFAS laboratory data are tabulated and presented in Attachment A.

2.1.3 Metals

The following items were reviewed for compliancy in the metals analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, preparation blank, and field QC equipment blank contamination
- Interference check sample (ICS) recoveries
- MS/MSD recoveries
- LCS recoveries
- Laboratory duplicate precision
- Serial dilutions
- Sample result verification and identification
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, MS/MSD recoveries, and LCS recoveries as discussed below.

Blank Contamination

The laboratory preparation blank associated with samples in SDGs 24H3407 and 24H3410 contained manganese below the reporting limit at a concentration of 0.22 mg/kg. Validation qualification was not required for the affected samples.

MS/MSD Recoveries

All MS/MSD recoveries were considered acceptable and within the 75-125%R QC limit (80-120%R for mercury) with the exception of the low MS/MSD recoveries for antimony (29.6%R, 31.1%R), boron (66.5%R), lead (45.0%R), and zinc (68.6%R) associated with sample with lab ID 24H3410-01. Therefore, results for these analytes were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

LCS Recoveries

All LCS recoveries were considered acceptable and within the 85-115 QC limit with the exception of the LCS recoveries for copper (122%R) and mercury (67%R) associated with samples in SDG 24H3010. Therefore, results for those analytes where LCS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples. Positive results for those analytes where LCS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

Usability

All metals soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The metals soil data presented by the laboratory were 100% complete (i.e., usable). The validated metals laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A – VALIDATED LABORATORY DATA

				Location ID	AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-02		AWS-HGE-SS-02		AWS-HGE-SS-02	
				Sample ID	AWS-HGE-SS-01-0.5-2		AWS-HGE-SS-01-0-0.5		AWS-HGE-SS-01-2-4		AWS-HGE-02-0.5-2		AWS-HGE-02-0-0.5		AWS-HGE-02-2-4	
				Matrix	SO		SO		SO		SO		SO		SO	
				Lab Sample ID	24H3410-02		24H3410-01		24H3410-03		24H3010-02		24H3010-01		24H3010-03	
				SDG	24H3410		24H3410		24H3410		24H3010		24H3010		24H3010	
				Sample Date	8/22/2024		8/22/2024		8/22/2024		8/20/2024		8/20/2024		8/20/2024	
				Sample Type Code	N		N		N		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit													
8270E	1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0.4	U											
8270E	1-Methylnaphthalene	90-12-0	mg/kg	0.2	U											
8270E	2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg		R											
8270E	2,4,5-Trichlorophenol	95-95-4	mg/kg	0.4	U											
8270E	2,4,6-Trichlorophenol	88-06-2	mg/kg	0.4	U											
8270E	2,4-Dichlorophenol	120-83-2	mg/kg	0.4	U											
8270E	2,4-Dimethylphenol	105-67-9	mg/kg	0.4	UJ											
8270E	2,4-Dinitrophenol	51-28-5	mg/kg	0.78	U											
8270E	2,4-Dinitrotoluene	121-14-2	mg/kg	0.4	U											
8270E	2,6-Dinitrotoluene	606-20-2	mg/kg	0.4	U											
8270E	2-Chloronaphthalene	91-58-7	mg/kg	0.4	U											
8270E	2-Chlorophenol	95-57-8	mg/kg	0.4	U											
8270E	2-Methylnaphthalene	91-57-6	mg/kg	0.043	J											
8270E	2-Methylphenol (O-Cresol)	00095-48-7	mg/kg	0.4	U											
8270E	2-Nitroaniline	88-74-4	mg/kg	0.4	U											
8270E	2-Nitrophenol	88-75-5	mg/kg	0.4	U											
8270E	3- And 4- Methylphenol (Total)	MEPH3MEPH4	mg/kg	0.4	U											
8270E	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.2	U											
8270E	3-Nitroaniline	99-09-2	mg/kg	0.4	U											
8270E	4,6-Dinitro-2-Methylphenol	534-52-1	mg/kg	0.4	U											
8270E	4-Bromophenyl Phenyl Ether	101-55-3	mg/kg	0.4	U											
8270E	4-Chloro-3-Methylphenol	59-50-7	mg/kg	0.78	U											
8270E	4-Chloroaniline	106-47-8	mg/kg	0.78	UJ											
8270E	4-Chlorophenyl Phenyl Ether	7005-72-3	mg/kg	0.4	U											
8270E	4-Nitroaniline	100-01-6	mg/kg	0.4	U											
8270E	4-Nitrophenol	100-02-7	mg/kg	0.78	U											
8270E	Acenaphthene	83-32-9	mg/kg	0.2	U											
8270E	Acenaphthylene	208-96-8	mg/kg	0.2	U											
8270E	Acetophenone	98-86-2	mg/kg	0.4	U											
8270E	Aniline	62-53-3	mg/kg	0.4	UJ											
8270E	Anthracene	120-12-7	mg/kg	0.2	U											
8270E	Atrazine	1912-24-9	mg/kg	0.79	U											
8270E	Benzaldehyde	100-52-7	mg/kg	0.4	UJ											
8270E	Benzo(A)Anthracene	56-55-3	mg/kg	0.094	J											
8270E	Benzo(A)Pyrene	50-32-8	mg/kg	0.094	J											
8270E	Benzo(B)Fluoranthene	205-99-2	mg/kg	0.13	J											
8270E	Benzo(G,H,I)Perylene	191-24-2	mg/kg	0.2	UJ											
8270E	Benzo(K)Fluoranthene	207-08-9	mg/kg	0.07	J											
8270E	Benzyl Butyl Phthalate	85-68-7	mg/kg	0.4	U											
8270E	Biphenyl (Diphenyl)	92-52-4	mg/kg	0.79	U											
8270E	Bis(2-Chloroethoxy) Methane	111-91-1	mg/kg	0.4	U											
8270E	Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	111-44-4	mg/kg	0.4	U											
8270E	Bis(2-Chloroisopropyl) Ether	108-60-1	mg/kg	0.4	U											
8270E	Bis(2-Ethylhexyl) Phthalate	117-81-7	mg/kg	0.2	J											
8270E	Caprolactam	105-60-2	mg/kg	0.4	U											
8270E	Carbazole	86-74-8	mg/kg	0.2	U											
8270E	Chrysene	218-01-9	mg/kg	0.11	J											
8270E	Dibenz(A,H)Anthracene	53-70-3	mg/kg	0.2	UJ											
8270E	Dibenzofuran	132-64-9	mg/kg	0.4	U											

				Location ID	AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-02		AWS-HGE-SS-02		AWS-HGE-SS-02	
				Sample ID	AWS-HGE-SS-01-0.5-2		AWS-HGE-SS-01-0-0.5		AWS-HGE-SS-01-2-4		AWS-HGE-02-0.5-2		AWS-HGE-02-0-0.5		AWS-HGE-02-2-4	
				Matrix	SO		SO		SO		SO		SO		SO	
				Lab Sample ID	24H3410-02		24H3410-01		24H3410-03		24H3010-02		24H3010-01		24H3010-03	
				SDG	24H3410		24H3410		24H3410		24H3010		24H3010		24H3010	
				Sample Date	8/22/2024		8/22/2024		8/22/2024		8/20/2024		8/20/2024		8/20/2024	
				Sample Type Code	N		N		N		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit													
8270E	Diethyl Phthalate	84-66-2	mg/kg	0.4	U											
8270E	Dimethyl Phthalate	131-11-3	mg/kg	0.4	U											
8270E	Di-N-Butyl Phthalate	84-74-2	mg/kg	0.4	U											
8270E	Di-N-Octylphthalate	117-84-0	mg/kg	0.4	UJ											
8270E	Fluoranthene	206-44-0	mg/kg	0.14	J											
8270E	Fluorene	86-73-7	mg/kg	0.2	U											
8270E	Hexachlorobenzene	118-74-1	mg/kg	0.4	U											
8270E	Hexachlorobutadiene	87-68-3	mg/kg	0.4	U											
8270E	Hexachlorocyclopentadiene	77-47-4	mg/kg	0.4	UJ											
8270E	Hexachloroethane	67-72-1	mg/kg	0.4	U											
8270E	Indeno(1,2,3-C,D)Pyrene	193-39-5	mg/kg	0.2	UJ											
8270E	Isophorone	00078-59-1	mg/kg	0.4	U											
8270E	Naphthalene	91-20-3	mg/kg	0.11	J											
8270E	Nitrobenzene	98-95-3	mg/kg	0.4	U											
8270E	N-Nitrosodi-N-Propylamine	621-64-7	mg/kg	0.4	U											
8270E	N-Nitrosodiphenylamine	86-30-6	mg/kg	0.4	U											
8270E	Pentachlorophenol	87-86-5	mg/kg	0.4	U											
8270E	Phenanthrene	85-01-8	mg/kg	0.082	J											
8270E	Phenol	108-95-2	mg/kg	0.4	U											
8270E	Pyrene	129-00-0	mg/kg	0.17	J											
8270E	Pyridine	110-86-1	mg/kg	0.4	UJ											
A2540G	Solids, Percent	SOLID	%	84.4		82.1		85.4		82.9		88.7		85.8		
E1633	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	ug/kg	0.79	U											
E1633	1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	39108-34-4	ug/kg	0.79	U											
E1633	1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4	ug/kg	0.79	U											
E1633	1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	27619-97-2	ug/kg	0.79	U											
E1633	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	2	U											
E1633	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	2	U											
E1633	2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	ug/kg	9.9	U											
E1633	3-Perfluoroheptyl propanoic acid	812-70-4	ug/kg	9.9	U											
E1633	3-Perfluoropropyl propanoic acid	356-02-5	ug/kg	2	U											
E1633	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	0.79	U											
E1633	9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	ug/kg	0.79	U											
E1633	Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	0.79	U											
E1633	N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	ug/kg	0.2	UJ											
E1633	N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	ug/kg	0.2	U											
E1633	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	ug/kg	0.2	UJ											
E1633	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ug/kg	0.2	U											
E1633	Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	ug/kg	0.4	U											
E1633	Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	ug/kg	0.4	U											
E1633	Perfluoro-3-methoxypropanoic acid	377-73-1	ug/kg	0.4	U											
E1633	Perfluoro-4-methoxybutanoic acid	863090-89-5	ug/kg	0.4	U											
E1633	Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	0.046	J											
E1633	Perfluorobutanoic Acid	375-22-4	ug/kg	0.79	U											
E1633	Perfluorodecanesulfonic acid (PFDS)	335-77-3	ug/kg	0.11	JN											
E1633	Perfluorodecanoic acid (PFDA)	335-76-2	ug/kg	0.52												
E1633	Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	ug/kg	0.2	U											
E1633	Perfluorododecanoic acid (PFDoA)	307-55-1	ug/kg	0.19	J											
E1633	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ug/kg	0.2	U											

				Location ID	AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-01		AWS-HGE-SS-02		AWS-HGE-SS-02		AWS-HGE-SS-02	
				Sample ID	AWS-HGE-SS-01-0.5-2		AWS-HGE-SS-01-0-0.5		AWS-HGE-SS-01-2-4		AWS-HGE-02-0.5-2		AWS-HGE-02-0-0.5		AWS-HGE-02-2-4	
				Matrix	SO		SO		SO		SO		SO		SO	
				Lab Sample ID	24H3410-02		24H3410-01		24H3410-03		24H3010-02		24H3010-01		24H3010-03	
				SDG	24H3410		24H3410		24H3410		24H3010		24H3010		24H3010	
				Sample Date	8/22/2024		8/22/2024		8/22/2024		8/20/2024		8/20/2024		8/20/2024	
				Sample Type Code	N		N		N		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit													
E1633	Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	0.16	J											
E1633	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	0.081	J											
E1633	Perfluorohexanoic acid (PFHxA)	307-24-4	ug/kg	0.25												
E1633	Perfluorononanesulfonic Acid (PFNS)	68259-12-1	ug/kg	0.2	U											
E1633	Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	0.2												
E1633	Perfluorooctane Sulfonamide (FOSA)	754-91-6	ug/kg	0.2	U											
E1633	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	2.7												
E1633	Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	0.73												
E1633	Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	ug/kg	0.2	U											
E1633	Perfluoropentanoic Acid (PFPeA)	2706-90-3	ug/kg	0.42												
E1633	Perfluorotetradecanoic acid (PFTA)	376-06-7	ug/kg	0.076	J											
E1633	Perfluorotridecanoic Acid (PFTriA/PFTrDA)	72629-94-8	ug/kg	0.031	J											
E1633	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ug/kg	0.09	J											
SW6010D	Aluminum	7429-90-5	mg/kg	11000		10000		15000		9000		8600		8900		
SW6010D	Antimony	7440-36-0	mg/kg	1.9	U	2	UJ	1.9	U	1.8	U	1.8	U	1.8	U	
SW6010D	Arsenic	7440-38-2	mg/kg	7.9		6.9		7.1		5.9		6.9		6.1		
SW6010D	Barium	7440-39-3	mg/kg	120		95		100		69		67		45		
SW6010D	Beryllium	7440-41-7	mg/kg	0.57		0.51		0.55		0.37		0.33		0.37		
SW6010D	Boron	7440-42-8	mg/kg	2.5	J	2.3	J	1.7	J	2.6	J	3.4	J	2.3	J	
SW6010D	Cadmium	7440-43-9	mg/kg	0.38	J	0.36	J	0.22	J	0.22	J	0.24	J	0.37	U	
SW6010D	Calcium	7440-70-2	mg/kg	3400		1700		1300		9300		68000		1500		
SW6010D	Chromium, Total	7440-47-3	mg/kg	11		12		15		9.9		10		10		
SW6010D	Cobalt	7440-48-4	mg/kg	7.1		7.5		8.3		5.8		5.8		6.2		
SW6010D	Copper	7440-50-8	mg/kg	18		17		18		22	J+	22	J+	21	J+	
SW6010D	Iron	7439-89-6	mg/kg	21000		22000		26000		17000		18000		19000		
SW6010D	Lead	7439-92-1	mg/kg	53		45	J	31		24		24		16		
SW6010D	Magnesium	7439-95-4	mg/kg	2700		2600		3100		3500		6100		2500		
SW6010D	Manganese	7439-96-5	mg/kg	450		420		430		550		500		480		
SW6010D	Nickel	7440-02-0	mg/kg	16		17		19		13		13		14		
SW6010D	Potassium	7440-09-7	mg/kg	930		1000		920		670		730		610		
SW6010D	Selenium	7782-49-2	mg/kg	3.8	U	4.1	U	3.9	U	3.7	U	3.6	U	3.7	U	
SW6010D	Silver	7440-22-4	mg/kg	0.38	U	0.41	U	0.39	U	0.37	U	0.36	U	0.37	U	
SW6010D	Sodium	7440-23-5	mg/kg	190	U	200	U	190	U	240		230		240		
SW6010D	Thallium	7440-28-0	mg/kg	1.9	U	2	U	1.9	U	1.8	U	1.8	U	1.8	U	
SW6010D	Vanadium	7440-62-2	mg/kg	15		13		18		13		12		13		
SW6010D	Zinc	7440-66-6	mg/kg	96		80	J	76		87		110		66		
SW7471B	Mercury	7439-97-6	mg/kg	0.12		0.089		0.14		0.055	J-	0.052		0.042	J-	
SW8270DSIM	1,4-Dioxane (P-Dioxane)	123-91-1	mg/kg	0.058	U											

				Location ID		AWS-HGE-SS-03		AWS-HGE-SS-03		AWS-HGE-SS-03	
				Sample ID		AWS-HGE-SS-03-0.5-2		AWS-HGE-SS-03-0-0.5		AWS-HGE-SS-03-2-4	
				Matrix		SO		SO		SO	
				Lab Sample ID		24H3407-02		24H3407-01		24H3407-03	
				SDG		24H3407		24H3407		24H3407	
				Sample Date		8/21/2024		8/21/2024		8/21/2024	
				Sample Type Code		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit								
8270E	1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0.39	U						
8270E	1-Methylnaphthalene	90-12-0	mg/kg	0.19	U						
8270E	2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg		R						
8270E	2,4,5-Trichlorophenol	95-95-4	mg/kg	0.39	U						
8270E	2,4,6-Trichlorophenol	88-06-2	mg/kg	0.39	U						
8270E	2,4-Dichlorophenol	120-83-2	mg/kg	0.39	U						
8270E	2,4-Dimethylphenol	105-67-9	mg/kg	0.39	UJ						
8270E	2,4-Dinitrophenol	51-28-5	mg/kg	0.75	UJ						
8270E	2,4-Dinitrotoluene	121-14-2	mg/kg	0.39	U						
8270E	2,6-Dinitrotoluene	606-20-2	mg/kg	0.39	U						
8270E	2-Chloronaphthalene	91-58-7	mg/kg	0.39	U						
8270E	2-Chlorophenol	95-57-8	mg/kg	0.39	U						
8270E	2-Methylnaphthalene	91-57-6	mg/kg	0.19	U						
8270E	2-Methylphenol (O-Cresol)	00095-48-7	mg/kg	0.39	U						
8270E	2-Nitroaniline	88-74-4	mg/kg	0.39	U						
8270E	2-Nitrophenol	88-75-5	mg/kg	0.39	U						
8270E	3- And 4- Methylphenol (Total)	MEPH3MEPH4	mg/kg	0.39	U						
8270E	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.19	U						
8270E	3-Nitroaniline	99-09-2	mg/kg	0.39	U						
8270E	4,6-Dinitro-2-Methylphenol	534-52-1	mg/kg	0.39	U						
8270E	4-Bromophenyl Phenyl Ether	101-55-3	mg/kg	0.39	U						
8270E	4-Chloro-3-Methylphenol	59-50-7	mg/kg	0.75	U						
8270E	4-Chloroaniline	106-47-8	mg/kg	0.75	UJ						
8270E	4-Chlorophenyl Phenyl Ether	7005-72-3	mg/kg	0.39	U						
8270E	4-Nitroaniline	100-01-6	mg/kg	0.39	U						
8270E	4-Nitrophenol	100-02-7	mg/kg	0.75	U						
8270E	Acenaphthene	83-32-9	mg/kg	0.19	U						
8270E	Acenaphthylene	208-96-8	mg/kg	0.19	U						
8270E	Acetophenone	98-86-2	mg/kg	0.39	U						
8270E	Aniline	62-53-3	mg/kg	0.39	UJ						
8270E	Anthracene	120-12-7	mg/kg	0.046	J						
8270E	Atrazine	1912-24-9	mg/kg	0.76	U						
8270E	Benzaldehyde	100-52-7	mg/kg	0.39	UJ						
8270E	Benzo(A)Anthracene	56-55-3	mg/kg	0.26							
8270E	Benzo(A)Pyrene	50-32-8	mg/kg	0.23							
8270E	Benzo(B)Fluoranthene	205-99-2	mg/kg	0.32							
8270E	Benzo(G,H,I)Perylene	191-24-2	mg/kg	0.083	J						
8270E	Benzo(K)Fluoranthene	207-08-9	mg/kg	0.15	J						
8270E	Benzyl Butyl Phthalate	85-68-7	mg/kg	0.39	U						
8270E	Biphenyl (Diphenyl)	92-52-4	mg/kg	0.76	U						
8270E	Bis(2-Chloroethoxy) Methane	111-91-1	mg/kg	0.39	U						
8270E	Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	111-44-4	mg/kg	0.39	U						
8270E	Bis(2-Chloroisopropyl) Ether	108-60-1	mg/kg	0.39	U						
8270E	Bis(2-Ethylhexyl) Phthalate	117-81-7	mg/kg	0.39	U						
8270E	Caprolactam	105-60-2	mg/kg	0.39	U						
8270E	Carbazole	86-74-8	mg/kg	0.041	J						
8270E	Chrysene	218-01-9	mg/kg	0.32							
8270E	Dibenz(A,H)Anthracene	53-70-3	mg/kg	0.19	U						
8270E	Dibenzofuran	132-64-9	mg/kg	0.39	U						

				Location ID		AWS-HGE-SS-03		AWS-HGE-SS-03		AWS-HGE-SS-03	
				Sample ID		AWS-HGE-SS-03-0.5-2		AWS-HGE-SS-03-0-0.5		AWS-HGE-SS-03-2-4	
				Matrix		SO		SO		SO	
				Lab Sample ID		24H3407-02		24H3407-01		24H3407-03	
				SDG		24H3407		24H3407		24H3407	
				Sample Date		8/21/2024		8/21/2024		8/21/2024	
				Sample Type Code		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit								
8270E	Diethyl Phthalate	84-66-2	mg/kg	0.39	U						
8270E	Dimethyl Phthalate	131-11-3	mg/kg	0.39	U						
8270E	Di-N-Butyl Phthalate	84-74-2	mg/kg	0.39	U						
8270E	Di-N-Octylphthalate	117-84-0	mg/kg	0.39	U						
8270E	Fluoranthene	206-44-0	mg/kg	0.57							
8270E	Fluorene	86-73-7	mg/kg	0.19	U						
8270E	Hexachlorobenzene	118-74-1	mg/kg	0.39	U						
8270E	Hexachlorobutadiene	87-68-3	mg/kg	0.39	U						
8270E	Hexachlorocyclopentadiene	77-47-4	mg/kg	0.39	UJ						
8270E	Hexachloroethane	67-72-1	mg/kg	0.39	U						
8270E	Indeno(1,2,3-C,D)Pyrene	193-39-5	mg/kg	0.15	J						
8270E	Isophorone	00078-59-1	mg/kg	0.39	U						
8270E	Naphthalene	91-20-3	mg/kg	0.19	U						
8270E	Nitrobenzene	98-95-3	mg/kg	0.39	U						
8270E	N-Nitrosodi-N-Propylamine	621-64-7	mg/kg	0.39	U						
8270E	N-Nitrosodiphenylamine	86-30-6	mg/kg	0.39	U						
8270E	Pentachlorophenol	87-86-5	mg/kg	0.39	UJ						
8270E	Phenanthrene	85-01-8	mg/kg	0.37							
8270E	Phenol	108-95-2	mg/kg	0.39	U						
8270E	Pyrene	129-00-0	mg/kg	0.58							
8270E	Pyridine	110-86-1	mg/kg	0.39	UJ						
A2540G	Solids, Percent	SOLID	%	86.7		72.9		86.2			
E1633	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	ug/kg	0.79	U						
E1633	1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	39108-34-4	ug/kg	0.79	U						
E1633	1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4	ug/kg	0.79	U						
E1633	1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	27619-97-2	ug/kg	0.79	U						
E1633	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	2	U						
E1633	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	2	U						
E1633	2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	ug/kg	9.9	U						
E1633	3-Perfluoroheptyl propanoic acid	812-70-4	ug/kg	9.9	U						
E1633	3-Perfluoropropyl propanoic acid	356-02-5	ug/kg	2	U						
E1633	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	0.79	U						
E1633	9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	ug/kg	0.79	U						
E1633	Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	0.79	U						
E1633	N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	ug/kg	0.2	UJ						
E1633	N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	ug/kg	0.2	U						
E1633	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	ug/kg	0.2	UJ						
E1633	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ug/kg	0.2	U						
E1633	Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	ug/kg	0.4	U						
E1633	Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	ug/kg	0.4	U						
E1633	Perfluoro-3-methoxypropanoic acid	377-73-1	ug/kg	0.4	U						
E1633	Perfluoro-4-methoxybutanoic acid	863090-89-5	ug/kg	0.4	U						
E1633	Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	0.2	U						
E1633	Perfluorobutanoic Acid	375-22-4	ug/kg	0.79	U						
E1633	Perfluorodecanesulfonic acid (PFDS)	335-77-3	ug/kg	0.037	J						
E1633	Perfluorodecanoic acid (PFDA)	335-76-2	ug/kg	0.1	J						
E1633	Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	ug/kg	0.2	U						
E1633	Perfluorododecanoic acid (PFDoA)	307-55-1	ug/kg	0.037	J						
E1633	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ug/kg	0.2	U						

			Location ID	AWS-HGE-SS-03		AWS-HGE-SS-03		AWS-HGE-SS-03	
			Sample ID	AWS-HGE-SS-03-0.5-2		AWS-HGE-SS-03-0-0.5		AWS-HGE-SS-03-2-4	
			Matrix	SO		SO		SO	
			Lab Sample ID	24H3407-02		24H3407-01		24H3407-03	
			SDG	24H3407		24H3407		24H3407	
			Sample Date	8/21/2024		8/21/2024		8/21/2024	
			Sample Type Code	N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit						
E1633	Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	0.1	J				
E1633	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	0.2	U				
E1633	Perfluorohexanoic acid (PFHxA)	307-24-4	ug/kg	0.17	J				
E1633	Perfluorononanesulfonic Acid (PFNS)	68259-12-1	ug/kg	0.2	U				
E1633	Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	0.11	J				
E1633	Perfluorooctane Sulfonamide (FOSA)	754-91-6	ug/kg	0.2	U				
E1633	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	0.93					
E1633	Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	0.33					
E1633	Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	ug/kg	0.2	U				
E1633	Perfluoropentanoic Acid (PFPeA)	2706-90-3	ug/kg	0.16	JN				
E1633	Perfluorotetradecanoic acid (PFTA)	376-06-7	ug/kg	0.2	U				
E1633	Perfluorotridecanoic Acid (PFTriA/PFTrDA)	72629-94-8	ug/kg	0.2	U				
E1633	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ug/kg	0.031	J				
SW6010D	Aluminum	7429-90-5	mg/kg	8900		8300		11000	
SW6010D	Antimony	7440-36-0	mg/kg	1.9	U	2.2	U	1.9	U
SW6010D	Arsenic	7440-38-2	mg/kg	7.8		9.1		7.2	
SW6010D	Barium	7440-39-3	mg/kg	92		86		110	
SW6010D	Beryllium	7440-41-7	mg/kg	0.58		0.56		0.46	
SW6010D	Boron	7440-42-8	mg/kg	1.9	J	2.6	J	1.8	J
SW6010D	Cadmium	7440-43-9	mg/kg	0.32	J	0.47		0.18	J
SW6010D	Calcium	7440-70-2	mg/kg	3600		4200		1500	
SW6010D	Chromium, Total	7440-47-3	mg/kg	11		11		11	
SW6010D	Cobalt	7440-48-4	mg/kg	7.7		8.4		6.9	
SW6010D	Copper	7440-50-8	mg/kg	21		20		21	
SW6010D	Iron	7439-89-6	mg/kg	18000		18000		18000	
SW6010D	Lead	7439-92-1	mg/kg	62		55		40	
SW6010D	Magnesium	7439-95-4	mg/kg	2200		2200		2200	
SW6010D	Manganese	7439-96-5	mg/kg	500		500		680	
SW6010D	Nickel	7440-02-0	mg/kg	15		16		14	
SW6010D	Potassium	7440-09-7	mg/kg	860		900		770	
SW6010D	Selenium	7782-49-2	mg/kg	3.8	U	4.4	U	3.8	U
SW6010D	Silver	7440-22-4	mg/kg	0.38	U	0.44	U	0.38	U
SW6010D	Sodium	7440-23-5	mg/kg	190	U	220	U	190	U
SW6010D	Thallium	7440-28-0	mg/kg	1.9	U	2.2	U	1.9	U
SW6010D	Vanadium	7440-62-2	mg/kg	14		12		16	
SW6010D	Zinc	7440-66-6	mg/kg	87		100		75	
SW7471B	Mercury	7439-97-6	mg/kg	0.14		0.11		0.18	
SW8270DSIM	1,4-Dioxane (P-Dioxane)	123-91-1	mg/kg	0.057	U				

APPENDIX F BEST MANAGEMENT PRACTICES

A Property Owner's Guide to Site Management in Corning, New York

Have immediate questions or concerns? Call the project hotline at 833-770-1716

NEW YORK STATE | Department of Environmental Conservation

This guide provides a summary of the Site Management Plan (SMP) that describes the ongoing and planned work throughout Corning and highlights information especially relevant to property owners.

Site Management Plan

You can view the entire SMP online at https://www.dec.ny.gov/chemical/97180.html or in person at the DEC Region 8 office, at the Southeast Steuben County Library, or Corning Incorporated.

The primary types of industrial wastes that have been identified throughout the Corning area are referred to as ABG because it consists of ash, brick, and glass. These materials are of concern to the DEC because they represent a potential human health hazard. If you observe ABG on your property or elsewhere in the area, please do not disturb the material and contact the DEC immediately.

Contact information

Email: PublicAvailability.Corning@Parsons.com

Project Hotline: 833-770-1716

Samantha Salotto, PE, DEC Project Manager

(518)402-9903 Samantha.salotto@dec.ny.gov

Scott Williams, DEC Construction Inspector

(585)773-8034 scott.williams@dec.ny.gov

What is ABG?

ABG waste is usually uncompacted and loose and can appear both concentrated in layers and distributed sporadically throughout the soil column.

Ash: colors vary and may include black, gray, orange, and white.
Brick: types include red construction brick, white or yellow refractory brick, and puzzle-piece brick.
Glass: highly variable and may include glass cullet (fragments indiscernible from a finished product),tubing, lenses, electrical ware, uranium glass (yellow, yellow-green, or green cullet that fluoresces green under ultraviolet light), and trademarked/patented products (embossed with "Pyrex,""Corningware," or other trademarks or patent numbers). A comprehensive identification manual is available on the DEC website to help property owners and other stakeholders determine if they are encountering exposed ABG.







Why is this material being removed?

Samples of the ABG waste material have been found to contain amounts of arsenic, barium, chromium, mercury, lead, and cadmium above **soil cleanup objectives (SCOs)** and sometimes at levels which would classify the materials a **hazardous waste**.

What are SCOs?

Soil cleanup objectives are contaminant-specific soil concentrations that are protective of public health and the environment for specified uses of a property (e.g., residential, commercial). SCOs are used to guide decisions about the need to reduce exposure to environmental contaminants. The SCOs are contained in NYSDEC's Environmental Remediation Program regulations http://www.dec.ny.gov/chemical/34189.html Analysis of surface soil and subsurface soil samples indicate results above the New York State SCOs. Arsenic, cadmium, lead, and SVOCs are the constituents of potential concern (COPC) in the Study Area. The SVOCs primarily consist of polycyclic aromatic hydrocarbons (PAHs) including 2-methylnaphthalene; benz(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene.

A SCO is not a "bright line" between soil concentrations that will result in health effects and those that will not. Moreover, exceedance of an SCO at your property does not represent an immediate health hazard but indicates a need to evaluate measures to reduce the contaminant levels. The degree of public health concern when an SCO is exceeded depends on several factors, including (among others) the extent to which the SCO is exceeded, the potential for human exposure, other sources of exposure to the chemical, and the strength and quality of the available toxicological information on the chemical.

Why is this material called "hazardous waste"?

The term hazardous waste is a regulatory designation. In New York State, hazardous wastes are defined by U.S. Environmental Protection Agency and NYSDEC regulations http://www.dec.ny.gov/chemical/100401.html Simply defined, a hazardous waste is a waste with properties that make it dangerous or capable of having a harmful effect on human health or the environment. Hazardous waste is generated from many sources, ranging from industrial manufacturing process wastes to batteries and may come in many forms, including liquids, solids gases, and sludges. The treatment, storage and disposal of hazardous waste are regulated under the federal Resource Conservation and Recovery Act (RCRA) of 1976. Hazardous wastes are defined under RCRA in 40 CFR 261 where they are divided into two major categories: characteristic wastes and listed wastes. Characteristic hazardous wastes are materials that are known or tested to exhibit one or more of the following four hazardous traits: ignitibility, reactivity, corrosivity, or toxicity.

Soil and ash, brick, and/or glass in the Study Area was tested to see if it should be designated hazardous waste by using a test known as the Toxicity Characteristic Leaching Procedure (TCLP). TCLP is a soil sample extraction method employed to simulate leaching through a landfill and to assess the potential for contamination in the material being tested (soil) to get in groundwater. Designation of the soil and/or ash, brick and/or glass in the Study Area as hazardous waste is not directly related to the potential for human exposure or health risks; rather, it tells us that the materials if removed require special handling and disposal in a hazardous waste landfill. Listed hazardous wastes do not apply to soils in the Study Area.

Where would I encounter ABG?

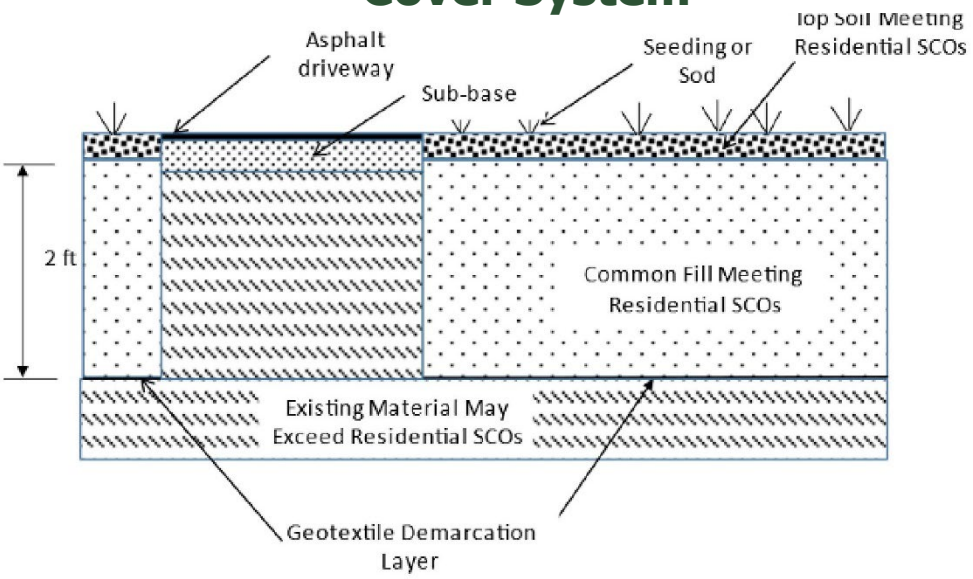
It is possible you could encounter ABG when digging on your property.

The cleanup that was performed in the Houghton Plot consisted of excavating and removing as much as the top two feet of soil where the ABG waste and other potential contamination were found. After the ABG and other potential contamination was removed, workers put in a new layer of clean material depending on what was removed. The new material may be grass, trees, concrete sidewalks, or asphalt. In some cases, investigation of a property determined that no action was needed.

However, the cleanup was performed only in the areas where the investigation found ABG. Note that the Houghton Plot was the location of former ash dumps which preceded the residential neighborhood and waste material could still be found as more areas are sampled.

Because the remedy consists of a cover system (up to two feet of clean soil, grass, trees, concrete sidewalks, or asphalt), property owners are encouraged to plan projects that would require more extensive digging—such as installing a swimming pool or new deck—only after you have consulted with DEC and Corning Incorporated.

Contact with metals and other contaminants of concern is also possible in surface soils (within top 2 inches of ground surface), particularly in areas not covered with grass, mulch or pavement, especially in areas with visible ash, brick, and glass. Contact is also possible in sub-surface soil (beneath ground surface) if you dig into the ground. People can be exposed to metals or other contaminants of concern in soil if they get soil on their hands or vegetables and swallow or ingest the soil through hand-to-mouth or eating activities.



What precautions should I take?

No immediate health effects from exposure to arsenic, cadmium, lead, SVOCs or other contaminants in the soil through typical use of the yards is expected. However, you can reduce the chances for exposure to these contaminants by taking reasonable and practical steps to minimize direct and repeated contact with bare soils (particularly by young children).

Maintenance of a grass or mulch cover will help prevent direct contact with the soil.

Unnecessary digging in the dirt should be avoided. Children and adults should wash hands after outdoor activities.

The use of doormats and periodic damp mopping of floors can help reduce exposure to outdoor soil that might be tracked indoors.

It's important to note that all soils contain at least trace metals and microorganisms, and therefore it is always a good idea to minimize getting soil into your body whether it is contaminated or not.

What about my garden?

Eating vegetables from your garden could increase your exposure to arsenic, cadmium, lead, SVOCs or other contaminants if they are present at elevated levels in the soil of your garden. Contaminant levels in homegrown vegetables depend on many factors such as the specific kind of vegetable, characteristics of the soil, the level of contamination in the soil, and others. Additionally, soil can stick to vegetables and then be taken into the body when the vegetables are eaten. If you decide to grow and eat vegetables, the New York State Department of Health recommends best practices that can be followed to reduce the potential for exposure any time people are concerned that soil may contain man-made or naturally occurring contaminants.

To help reduce any exposures you might have from vegetable gardening:

- Grow vegetables in raised beds with clean soil (at least 10 inches deep). Use untreated wood to make the beds. Pressure-treated wood and railroad ties contain added chemicals.
- Wear gloves when working in the garden and avoid bringing soil into the house.
- Brush off your clothes and remove shoes and gloves before entering your home.
- Wash with soap and water after gardening or any time before you eat.

Additional information about healthy gardening may be found at:
http://wwwhttp://www.health.ny.gov/publications/1301/

What are my responsibilities as a property owner?

Site Management will require work on some residential property. You have rights as a homeowner but also obligations to help the DEC and the DOH perform this work. Here is a summary of your rights and responsibilities:

1. You will not have to pay anything for this cleanup on your property; however, you will need to grant access to Corning Incorporated to perform the work. Note that you will be notified before anyone comes onto your property to do any work related to the remedy.

2. To the best of your ability, you should also protect the work in progress. For instance, if excavation has taken place in your front yard, you might want to keep pets from digging in the excavation area.

3. If you, even accidentally, do something that impacts the new cover put in place, you will need to contact Corning Incorporated and the DEC to let them know.

4. If you sell your house, you need to notify the DEC and Corning Incorporated so they can contact the new residents about the cleanup work. The seller should also provide the No Further Action Letter and the Construction Completion Report (if they have one) to the new owner. If you have misplaced these documents, you can contact Corning Incorporated or DEC and they can help you.

5. After the new cover material is put into place, you will be responsible for the normal upkeep of your property—such as mowing and trimming—just as you would have before. Corning Incorporated provided instructions on how to maintain your new sod.

Important Timelines for Property Owners

If any of the situations described below apply to you, please notify Corning Incorporated and the DEC as quickly as possible. These timelines were established to help maintain the health and safety of people and the environment.

The DEC can help you determine the likelihood of encountering ABG and assist with dealing with it if you do.

Corning Incorporated will notify you, the property owner 15 days prior to doing any field activity associated with site management including inspections and monitoring or excavation. You will also receive status reports within 45 days of Corning Incorporated having to respond to an event on your property that describes any actions taken to maintain the cover system.

I discovered damage to the cover system installed by Corning Incorporated.

- Notify Corning Incorporated and the DEC within 24 hours.

I think I found ash, brick, or glass.

- Notify Corning Incorporated and the DEC within 24 hours.

I have a building permit that includes digging or excavating.

- Notify Corning Incorporated and the DEC within 7 days of receipt. Corning Incorporated will arrange activities.

I am planning activities on my property that require excavation.

- Notify Corning Incorporated and the DEC 60 days before starting your project.

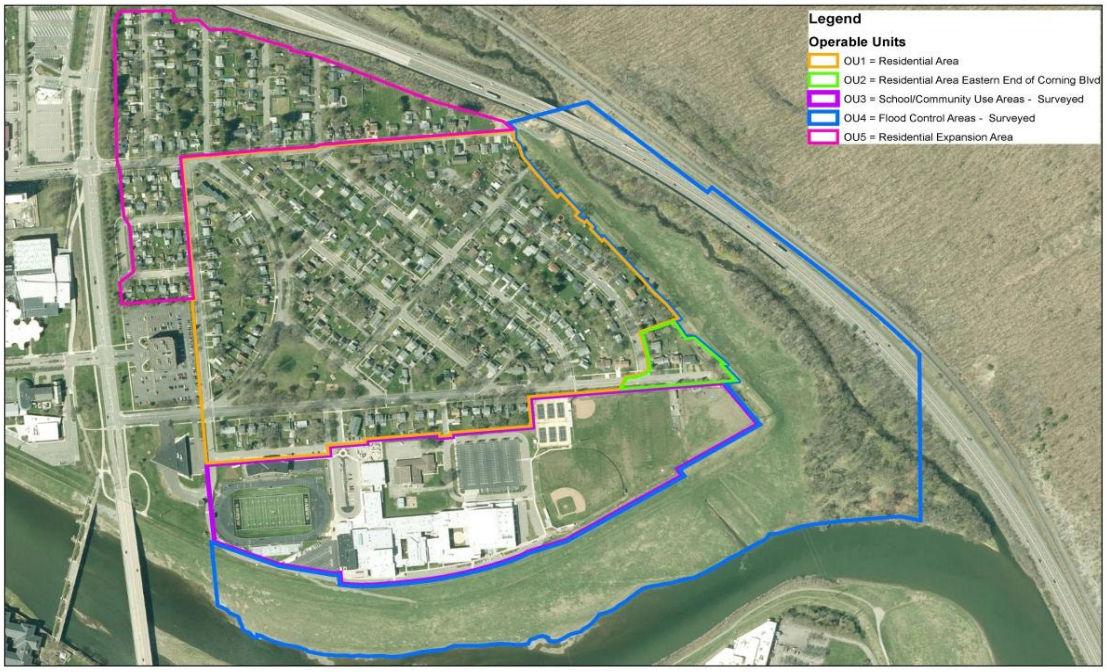
Overview of the Site Management Plan

Each section of the SMP is summarized below.

Executive Summary

This introductory portion of the plan uses the terms "OU1," "OU2," or "OU5." These are operable units and are the different areas of the cleanup that will take place in residential areas. Having operable units was necessary for breaking down this large project into manageable components, which involved different cover systems and/or schedules for implementation.

The SMP has been developed for the properties within the Residential Area (OU1), the Residential Area at the Eastern End of Corning Boulevard (OU2) and the Residential Expansion Area (OU5).



2.0 Institutional and Engineering Control Plan

Section 2 provides detailed information about the institutional controls (such as the plans for and procedures that will be followed during inspections and the notification requirements for homeowners, Corning Incorporated, and the DEC) and the engineering controls (that is, the cover that was installed after excavation). Institutional controls are referred to as "ICs" throughout the SMP. Subsection 2.3 describes the engineering controls—that is, the new soil and materials that will be placed after the excavation. The soil cover system is a permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals, in perpetuity, in accordance with this Site Management Plan.

More information about the backfilling, reseeding, lawn replacement, and replacing landscaping features can be found in this section.

Overview of the Site Management Plan

Each section of the SMP is summarized below.

3.0 Monitoring Plan

This section of the SMP describes how the new cover system will be evaluated and monitored.

4.0 Periodic Assessments/Evaluation

This section describes how Corning Incorporated will determine the vulnerability of the site related to severe weather events. Increased erosion, damage to infrastructure from wind, and flooding are all considered. This section also describes the DEC's policy related to green remediation (i.e., work be performed using ecologically sound techniques that save energy, reduce waste and emissions, conserve water, and protection of the natural environment and private property).

5.0 Reporting Requirements

This section describes the periodic reporting requirements and include (1) site inspection reports and (2) periodic review reports (PRRs).

A comprehensive inspection of properties will be performed annually by Corning Incorporated and documented in inspection forms submitted to DEC as part of the annual Periodic Review Reports (PRRs). Any deficiencies or issues that require action will be documented via email and provided to NYSDEC within 7 calendar days of the inspection. Corning Incorporated will compile the information provided by the property owners to be included in the PRR. Such information will include, but is not limited to, an annual summary of work completed on the property which involved excavation and any observation of damage or defect that compromises the effectiveness of the cover system.

6.0 References

This section lists the reports, journal articles, research, etc. referenced in the site management plan. Many of these are available to the public either online or in a public library.

Figures

This section of the site management plan includes maps of the site, photos of waste material, and illustrations of the cover system.

Tables

The first table (Table 1-1) in this section lists the different properties in each operable unit (OU). Note that no personal identification is listed on this table.

Overview of the Site Management Plan

Each section of the SMP is summarized below.

Appendix A: Waste Summary, Industrial Wastes in Corning, New York. This appendix provides a descriptions and pictures of the different waste material you may encounter on your property.

Appendix B: Site contacts are provided.

Appendix C: Supplemental Requirements for Building Permits in the City of Corning Study Area. This section is important for property owners because it describes what you should do if you are issued a building permit for work on your property.

Appendix D: Excavation Work Plan – Residential Properties (EWP-RP). This appendix details how the excavation and the replacement of the cover system will be performed and how property owners should plan for their own excavation projects in their yards.

The excavation workplan describes how excavation and replacement of the cover system will be performed. It explains how the material will be loaded onto containers for disposal, how it will be transported and disposed of, how the equipment used for the work will be decontaminated, the management of water, and how the cover system will be repaired, installed, or restored as required. Note that this work will be at no expense to the property owner.

If you are planning to dig post holes deeper than 2 feet below ground surface or plant trees or shrubs in an area that is known to contain ABG, Corning Incorporated will hire a qualified driller to drill those holes. If you are planning to install a fence, flagpole, or mailbox, for example, you and the driller will mark out the locations for the holes and the driller (hired by Corning Incorporated) will manage the subsurface material so you will not come into contact with any waste material. You or your contractor may then complete the project.

For excavations deeper than 2 feet required for installing footers or for building additions or in-ground swimming pools, for example, Corning Incorporated will work with you and your schedule and hire a subcontractor to complete the excavation. During that excavation, the subcontractor will install a demarcation layer (e.g., fabric) at the bottom of the excavation to provide a visual barrier against any remaining ABG and other potential contamination. During this work, Corning Incorporated may collect samples of the material being excavated to assist with disposal. When the subcontractor is finished, they will install a temporary safety fence. If the excavation is against a foundation, Corning Incorporated will inspect the area inside and outside, and before and after the excavation to make sure there was no damage to your foundation. You or your contractor may then complete the project.

Note that an access agreement will be necessary for DEC and/or Corning Incorporated to perform work on your property.

Overview of the Site Management Plan

Each section of the SMP is summarized below.

Appendix E: Soil Analytical Results and Remaining Contamination. This appendix contains drawings illustrating sampling locations with symbols used to indicate the sample type (such as a soil boring, test pit, surface soil, etc.) and the results of analytical testing at each point. Tables summarizing the results of the laboratory data analysis for each sample make up the rest of this appendix.

Appendix F. Known Subject Material Within City of Corning Rights-of-way. Appendix F contains figures that illustrate City of Corning rights-of-way and the locations and analytical results of any samples taken in these areas.

Appendix G. Known Subject Material Within City of Corning Rights-of-way (Prepared by Parsons). This appendix consists of one figure developed by Parsons Corporation. (Parsons is providing third-party oversight for the cleanup work on behalf of DEC). This map illustrates the likelihood of ABG and other potential contamination being encountered the City of Corning right-of-way.

Appendix H. Excavation Work Plan – City of Corning Rights-of-way Areas (EWP-ROW). This appendix consists of a work plan describing the cleanup work that will occur in the City's rights-of-way. This work plan is similar to the one provided in Appendix D but it describes the notification requirements for the City of Corning and utility providers rather than property owners.

Appendix I. Short-Term Response Action Work Plan. This work plan describes the immediate actions that will be taken to address or mitigate any environmental impacts posed by the ABG and other potential contamination. It provides the short-term measures that will be taken if someone finds ABG such as isolating the area with temporary fencing, installing any erosion controls if necessary, and inspecting the area daily. These are short-term measures to address immediate exposure risks that are taken before the more comprehensive excavation takes place.

Overview of the Site Management Plan



Each section of the SMP is summarized below.

Appendix J. Responsibilities of Property Owner and Remedial Party. The information in this appendix is of particular importance to property owners. It describes in detail the different responsibilities for the property owner, Corning Incorporated, and utility contractors. Corning Incorporated and the DEC also have responsibilities to protect you, your property, and the environment at large throughout this project. That information is also included in Appendix J.

Appendix K. Health and Safety Plan (HASP). The HASP provides detailed information for people working on the project. It describes the potential hazards of working on the site and includes the safety measures and procedures that are put in place to keep workers safe.

Appendix L. Community Air Monitoring Plan (CAMP). The CAMP provides information related to the control of dust and the air monitoring that will take place during the clean up work.

Appendix M. Site Management Forms. This appendix consists of a blank inspection log forms to be used by workers in the field.

Appendix N. Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP). This appendix details the sampling protocols and quality assurance/quality control (QA/QC) procedures for conducting field sampling activities.

Appendix O. Groundwater Monitoring Plan. This appendix describes how groundwater monitoring wells will be installed. Monitoring groundwater is one way of assessing if the remedy is working.

Appendix P. Agreement for Work in the Houghton Plot Study Area – Project ID 851046 between Corning Incorporated and the City of Corning. This appendix details the agreement between Corning Incorporated and the City of Corning for performing excavation work within the City of Corning rights-of way.

Visit the DEC's Website for More Information

https://www.dec.ny.gov/chemical/97180.html

A digital version of this guide can be found at https://arcg.is/1eH18q.

This digital site will be updated as needed.