Professional Service Industries, Inc.
17 British American Blvd., Latham, New York 12110
Phone: (518) 377-9841
Fax: (518) 377-9847

February 9, 2023

New York State Department of Environmental Protection, Remedial Bureau E
625 Broadway, 12th Floor
Albany, New York 12233-7017

Attention: Mr. Brianna Scharf
brianna.scharf@dec.ny.gov

Re: Corrective Measures Summary Letter
Former Scolite Site
2 Madison Street
Troy, New York
Site No. E442037

Dear Ms. Scharf:

Professional Service Industries, Inc. (an Intertek Company) is submitting this Corrective Measures Summary Letter behalf of the City of Troy, New York that documents the repair to an isolated area of the cover system that was damaged in July 2022. A Site Location Map is included as **Figure 1.**

COVER SYSTEM BREACH

On July 7, 2022, the New York State Department of Environmental Conservation (NYSDEC) was notified that the existing cover system was damaged during the removal of a large steel electrical generator system (flywheel) historically used by the steelworks that once existed on the site. The cover system is protective of human exposure to site soils and consists of filter fabric placed on top of the impacted soil which is overlain by 12" of No. 2 crushed stone. There are areas of the site that are covered by concrete slabs which are remnants of the razed onsite structures. The concrete slabs serve as a protective cover system over impacted soil where they are located.

On July 7, 2022, the flywheel was removed by contractors on behalf of a local museum. The City of Troy approved the removal of the flywheel contingent upon proper notification to the City in accordance with SMP as well as requirements legislated by the Troy City Council when sale of the flywheel was approved. No prior notification was provided to the city and the City of Troy, however, and city staff only became aware of activity on the site after the majority of activities to remove the flywheel were completed by the contractor.

The removal required a large crane to lift the flywheel structure from the mounts and place it on a flatbed truck for transport to the museum. It appears that vegetative growth which had taken root adjacent to

the slab was pushed onto the slab to create space for the crane and trailer. When doing this, the root structure below the fabric pulled the fabric to the surface, damaging it and disturbing the soils. Additionally, due to the weight of the crane, small pieces of the concrete cover system were broken away where itadjoined the crushed stone areas. The area of cover system damage is approximately 30 feet by 30 feet by one feet deep. In addition, by removing the flywheel structure, a void was created that will require management as described below.

CORRECTIVE MEASURES

On January 26, 2023, PSI was onsite to oversee the repair of the cover system by US Ecology of Altamont, New York. Ms. Taylor Shanley from TRC was onsite to monitor field activities as an agent for the NYSDEC. Prior to excavation work, the import of No. 2 Stone from Larned Sand and Gravel of Schenectady, New York was pre-approved for import. The specification sheet for the No. 2 Stone is included in the table section following this summary letter.

PSI set up two (2) Community Air Monitoring Program (CAMP) monitoring stations to monitor particulates using two DustTrak 8230's. One monitoring station was set up upwind of the excavation area and the second monitoring station placed downwind of the work area. In addition to the particulate monitoring, a Mine Rae™ Photoionization Detector (PID) was utilized to monitor for volatile organic compounds (VOCs) at both CAMP locations. Airborne particulate matter (PM-10) concentrations were monitored continuously and did not exceed the EWP designated threshold value of 0.100 mg/m3 above the background particulate level, based on a 15-minute time weighted average (TWA). VOCs were all recorded as zero on the instrument. The locations of the monitoring stations are presented on **Figure 2** The air monitoring data is presented on **Table 1.**

US Ecology utilized a Kebelco mini excavator to clear the breach area and expose the fabric and stone. During the preparation of the breach area, excess intermingled soil and existing stone was placed in the fly wheel area. The flywheel area was brought up to grade, filter fabric was placed over the area and a minimum of 12" of No. 2 stone was placed on top of the fabric.

After the preparation of the main repair area, filter fabric was placed in the excavation area overlapping the existing fabric by 6 feet. Filter fabric was then extended over existing grade by 3 feet prior to the placement of minimum of 12" of No. 2 stone. See attached photos of the breach and flywheel areas.

There was no excess soil or stone produced as the result of the repair. Photos of final grade of both areas are attached. Please note that the Troy Department of Public Works (DPW) cut all existing small trees that were located on the site and placed all fallen trees in a wood chipper.

The breach repair described above will be further summarized in the 2023 PRR for the site. Should you have any questions please contact us at 518-377-9841.

Respectfully Submitted,
Intertek/PSI

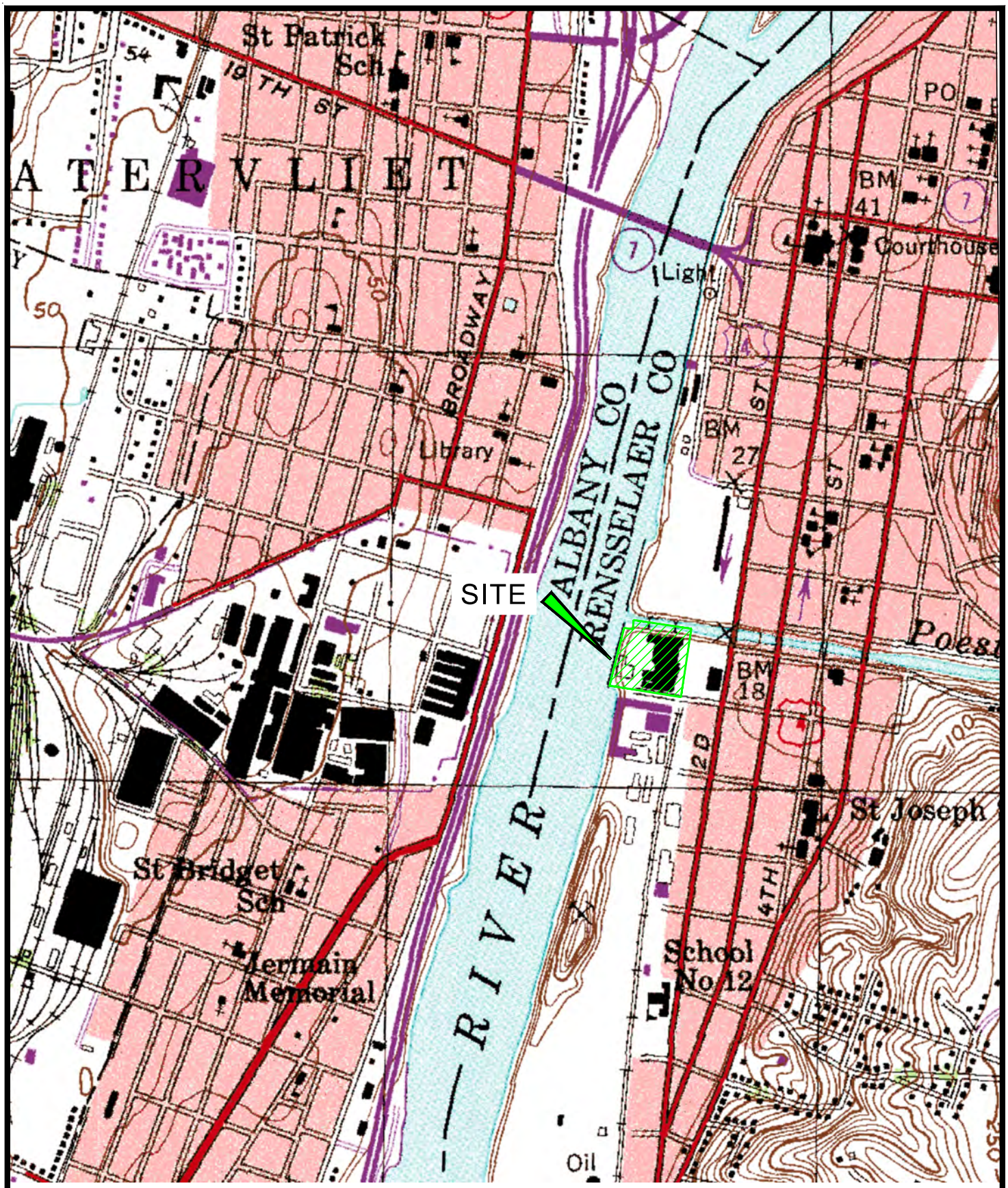
Thomas Rankin, PG, CPG
Sr. Geologist/Project Manager

Nana Westmark, PG (Florida)
Principal Consultant

Attachments:

- Figure 1
- Figure 2
- Table 1
- Photographs

Figures



TOPOGRAPHIC IMAGE:
U.S.G.S. TROY SOUTH QUADRANGLE, NY
7.5 MINUTE SERIES
1953 – PHOTOREVISED 1980

0 1,000'
GRAPHIC SCALE
ALL LOCATIONS ARE APPROXIMATE

intertek psi Total Quality. Assured.
Environmental Services
104 Erie Boulevard, Suite 1
Schenectady, NY 12305
(518) 377-9841 (518) 377-9847 fax

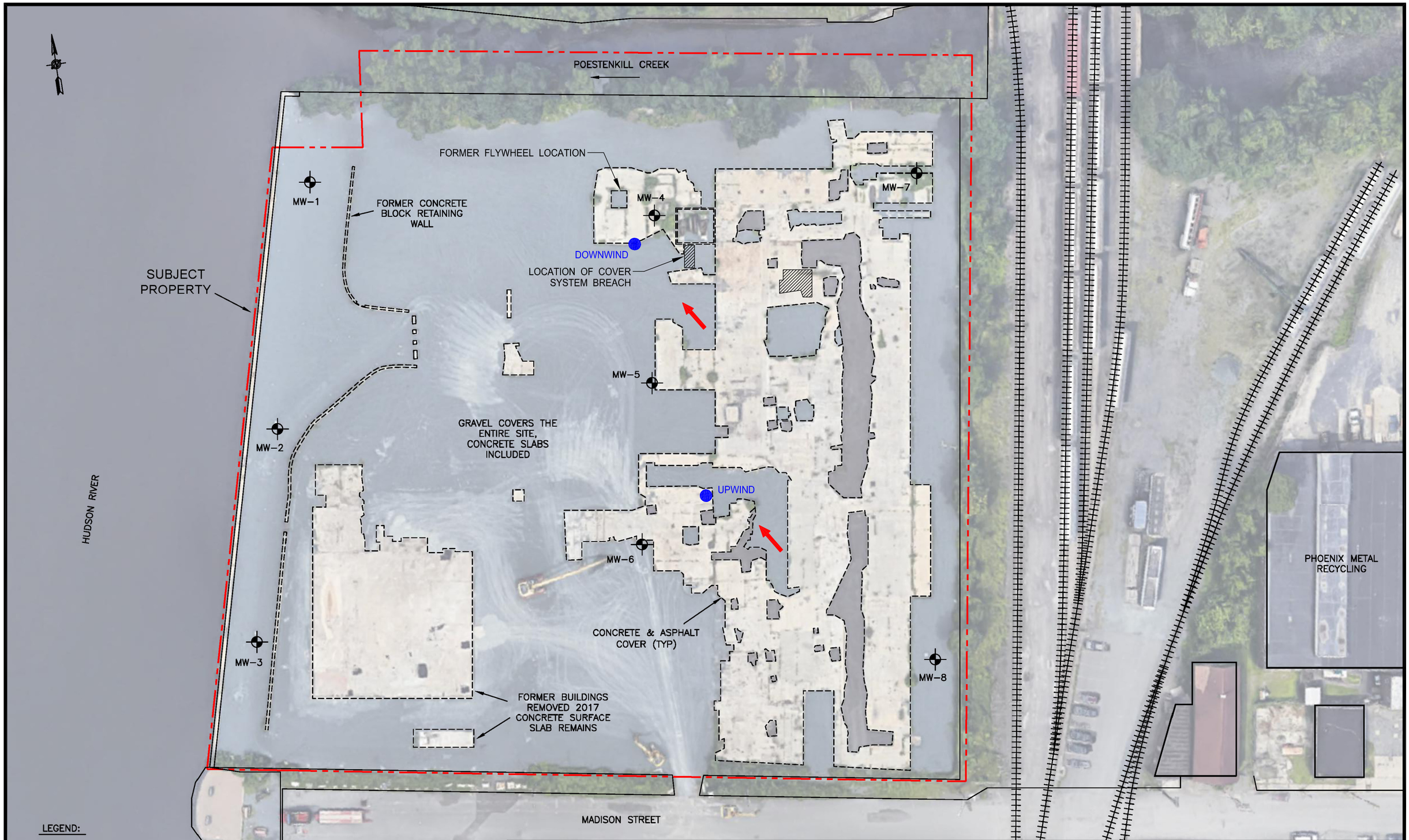
Site Map - USGS Topographic

2 Madison Street
Troy, New York 12180

Checked:	Scale:	Date:	Figure:
T. Rankin	1" = 1,000'	Apr 22, 2021	1

Drawn: C. Moran
08214317-1 Fig 1.dwg

Project Number: 08214317



LEGEND:

MW-1 MONITORING WELL LOCATION

DUST TRAK LOCATIONS

WIND DIRECTION ARROW

ALL LOCATIONS ARE APPROXIMATE
BACKGROUND IMAGE: GOOGLE MAPS

0 60'
GRAPHIC SCALE

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Total Quality. Assured.

Environmental Services
17 British American Boulevard,
Latham, NY 12110
(518) 377-9841 (518) 377-9847 fax

Breach Repair Area

2 Madison Street
Troy, New York 12180

Checked:	Scale:	Date:	Figure:
T. Rankin	1" = 60'	Feb. 08, 2023	2

Drawn: C. Moran
08214673-1.dwg
Fig 2

Project Number: 08214673

Table

08214673 - Scolite-Troy-NY CAMP field data lof TABLE 1

Date: 1/26/2023

Field Personel: Chris Putzer

Weather: Overcast/cloudy/light snow at times. 33-40 degrees F. AM Wind 5mph out of the southeast, PM Wind 17 MPH out of the west-southwest.

	In work area - Downwind		Upwind	
Time	Particulate (ug/m3)	VOC (ppm)	Particulate (ug/m3)	VOC (ppm)
7:30:00	0.058	0.0	0.045	0.0
7:45:00	0.029	0.0	0.046	0.0
8:00:00	0.029	0.0	0.041	0.0
8:15:00	0.027	0.0	0.039	0.0
8:30:00	0.029	0.0	0.03	0.0
8:45:00	0.028	0.0	0.025	0.0
9:00:00	0.029	0.0	0.023	0.0
9:15:00	0.026	0.0	0.019	0.0
9:30:00	0.029	0.0	0.017	0.0
9:45:00	0.024	0.0	0.02	0.0
10:00:00	0.22	0.0	0.022	0.0
10:15:00	0.021	0.0	0.021	0.0
10:30:00	0.015	0.0	0.015	0.0
10:45:00	0.016	0.0	0.016	0.0
11:00:00	0.012	0.0	0.01	0.0
11:15:00	0.009	0.0	0.006	0.0
11:30:00	0.005	0.0	0.005	0.0
11:45:00	0.005	0.0	0.005	0.0
12:00:00	0.005	0.0	0.005	0.0
12:15:00	0.005	0.0	0.005	0.0
12:30:00	0.004	0.0	0.005	0.0
12:45:00	0.005	0.0	0.005	0.0
13:00:00	0.007	0.0	0.007	0.0
13:15:00	0.009	0.0	0.009	0.0
13:30:00	0.009	0.0	0.009	0.0
13:45:00	0.008	0.0	0.01	0.0
14:00:00	0.005	0.0	0.01	0.0
14:15:00	0.006	0.0	0.011	0.0
14:30:00	0.006	0.0	0.012	0.0
14:45:00	0.005	0.0	0.011	0.0
15:00:00	0.004	0.0	0.011	0.0
15:15:00	0.003	0.0	0.009	0.0
15:30:00	0.003	0.0	0.009	0.0
15:45:00	0.002	0.0	0.01	0.0
16:00:00	0.002	0.0	0.01	0.0
End of monitoring period.				

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

CLIENT: **Wm. LARNED & SONS, INC.**
544 BURDECK STREET
SCHENECTADY, NEW YORK 12306

REPORT DATE: 06/29/21
SAMPLE NUMBER: 21262
OUR FILE NO: 331.018

Robert Behan

ATT'N: MS. SUZANNE YOUNG
REVIEWED BY: ROBERT BEHAN, NICET

PROJECT: **2021 LABORATORY MATERIALS EVALUATION**

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE: **CLIENT ID: #2 STONE**
MATERIAL DESCRIPTION: CRUSHED STONE sized as: GRAVEL, fine; trace Silt/Clay
MATERIAL PROJECT USE: COARSE AGGREGATE
EVALUATION SPECIFICATION: NYSDoT STANDARD SPECIFICATION SECTION 703-02, TABLE 703-4, SIZE 2

COARSE SIEVE SERIES: US STANDARD						MEDIUM SIEVE SERIES: US STANDARD						FINE SIEVE SERIES: US STANDARD					
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE			SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE			SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE		
4"						1/4"						#50					
3"						#4						#60					
2 1/2"						1/8"						#80					
2"						#8						#100					
1 1/2"		**100.0**	**100**	**-**	**100**	#10						#140					
1"	12.1	**87.9**	**90**	**-**	**100**	#16						**#200**	99.8	**0.2**	**0**	**-**	**1**
3/4"						#20						SILT					
1/2"	98.0	**2.0**	**0**	**-**	**15**	#30						CLAY					
3/8"						#40						COLLOID					

Photographs

Looking northeast toward the breach area. Camp monitoring equipment in foreground left.

Breach area cleared down to existing fabric.

Breach area fabric cut away to prepare overlap of new fabric.

Flywheel area in which spoils from breach were placed prior to installing fabric over this area.

Fabric overlay of existing fabric and extended over concrete prior to placement of No. 2 Stone. Photo looking south.

Completed repair of breach with 12” of No. 2 Stone over fabric.

Fabric being spread over flywheel area looking north.

12” of No. 2 Stone placed over fabric in flywheel area.