

301 Brooklea Drive
Fayetteville, NY 13066
Phone 315-637-3414
Fax 315-637-0713



Chairperson:
Mike Nesci

Members:
Craig Dudczak
Tom Kinsella
Gerald Gould
John Cayanne

Agenda
Quarry Commission Meeting
June 24, 2026
3:00 PM

Use the Manlius Town Board's recurring Zoom Link!
The same link will be used for all meetings.

Join from PC, Mac, iPad, or Android:
<https://us02web.zoom.us/j/87987327153>

Welcome

Approval Of Minutes

1. January 21, 2026

Old Business

1. Well Survey Reports (Tabled from 01/21/2026 Meeting)
2. Review the system of record management and annual reports digitally by Town

New Business

1. Annual Quarry Report Review
2. Purple Air Monitors Report
3. Complaints - No Direct Complaints
4. Vibra-Tech - County Grant Funding

Next Meeting

1. Other Business

Adjournament

301 Brooklea Drive
Fayetteville, NY 13066
Phone 315-637-3414
Fax 315-637-0713



Chairperson:
Mike Nesci

Members:
Craig Dudczak
Tom Kinsella
Gerald Gould
John Cayanne

**Minutes
Quarry Commission Meeting
January 21, 2026
2:00 PM**

The Town of Manlius Quarry Commission held a hybrid meeting with in-person attendees and virtual attendees.

The Following Commission Members were present.

**Mike Nesci
Craig Dudczak
Tom Kinsella
Gerald Gould
John Cayanne**

In-Person Attendees: John Deer, Town Supervisor. Carrie Grevelding, Town Clerk

Virtual Attendees: None

Welcome

Members of the commission introduced themselves.

Approval Of Minutes

September 8, 2025

Mr. Kinsella noted that the previous meeting minutes incorrectly recorded that seismograph readings were not being conducted. He clarified that the readings are currently being performed.

Mr. Dudczak made a motion, seconded by Mr. Cayanne to approve the minutes from September 8, 2025 with the correction that seismograph readings are being performed.

Ayes: Mr. Dudczak, Mr. Kinsella, Mr. Gould, Mr. Cayanne

Nayes: None

Abstained: Councilor Nesci

Results: Passed

Old Business

By-Laws Update: Councilor Nesci reported that the proposed by-laws were sent to the attorney for review. The attorney had no additional suggestions but noted the reference to quarterly meetings while only three meetings were listed. Mr. Kinsella provided historical context, explaining that although meetings were intended to be quarterly, there is typically limited activity in April due to winter conditions. Councilor Nesci suggested keeping the three meetings as listed and adding language allowing for additional meetings as needed. Clerk Grevelding will update the By-Laws to reflect quarterly meetings, with each meeting date to be set at the prior meeting.

Mr. Dudczak made a motion, seconded by Councilor Nesci to approve the By-laws with suggested amendments and subject to attorney review.

Ayes: Councilor Nesci, Mr. Dudczak, Mr. Kinsella, Mr. Gould, Mr. Cayanne

Nayes: None

Abstained: None

Results: Passed

1. Update on Kinsella Blasting Notifications

Mr. Kinsella reported that he has a notification form available on his website where individuals can sign up to be placed on a call, text, and email notification list. He noted that notifications cannot be scheduled more than a few days in advance and may need to be canceled or adjusted due to changing circumstances. Mr. Kinsella inquired who should be notified when blasting will occur at Town Hall. It was decided to add Duffy to the notification list, and Councilor Nesci will work with him on the social media notifications.

2. Town Complaint Form

The complaint forms are available on the Town website. Mr. Kinsella stated that when his staff receives complaints directly, they are entering them into the Town's online complaint form system. Mr. Dudczak stated that some complaints originate from his neighborhood. There was a discussion regarding confusion between blasts from the Jamesville Quarry and the Kinsella Quarry. Mr. Cayanne suggested posting information on the Town website regarding the Jamesville Quarry. Supervisor Deer will have Duffy check with the Jamesville Quarry to determine if they have information available on their blasting schedule.

3. Public Notifications
Notifications of meetings
Agenda

With the implementation of the new meetings and minutes software program, Clerk Grevelding will be able to post agendas, minutes, and meeting recordings on the Town website. Residents will also be able to sign up for notifications regarding meetings and posted materials.

New Business

1. Vibra-Tech vibration readings – Town should be getting these emails.
2 blasts on 10/8/2025
2 blasts on 10/30/2025

Mr. Kinsella reviewed the seismic monitoring information and provided details on the reports. Mr. Kinsella will provide a summary of the seismic results for inclusion in the year-end report.

2. Review Blast Complaints
3 Complaints from 10/05/2025
3 Complaints from 10/30/2025

Mr. Kinsella reviewed the complaints received and discussed common comments and concerns. Mr. Dudczak identified the areas from which the complaints are originating. Mr. Kinsella showed the members the locations where the blasts occurred in relation to the complaints.

Clerk Grevelding left meeting 3:00 PM.

3. Determine Response to Complaints

The Town will close the loop by emailing or texting the minutes to any complainants and calling any others as needed. The Town will handle the Post-Quarry Commission Review responses to all complainants.

4. Purple Air Monitor

Mr. Kinsella reviewed the air Monitor Results, best readings in days following the blasts. The aggregate data is giving solid baseline for comparisons.

Mr. Gould and Mr. Cayanne left meeting at 3:40 PM

5. Well Survey Reports

Tabled for future meeting.

6. Annual Reporting

Councilor Nesci inquired about records management and the uploading of end-of-year reports. Clerk Grevelding advised that the annual reports are posted on the Town

website and are also maintained digitally for records management purposes.

Tabled for future meeting.

Mr. Dudczak made a motion, seconded by Mr. Kinsella to table the Well Survey Reports and Annual Reporting for a future meeting.

Ayes: Councilor Nesci, Mr. Dudczak, Mr. Kinsella

Nayes: None

Abstained: None

Results: Passed

7. Next Meeting

An email will be sent to schedule the next meeting.

Adjournment

Mr. Dudzak made a motion, seconded by Mr. Kinsella to adjourn meeting at 3:43 PM.

Ayes: Councilor Nesci, Mr. Dudczak, Mr. Kinsella

Nayes: None

Abstained: None

Results: Passed

Respectfully Submitted by:

Carrie Grevelding
Town Clerk



Fox Professional Geology, PLLC

310 Cherry Road

Syracuse, New York 13219

Phone: (315) 935-5467

21 November 2025

WATER WELL SURVEY REPORT

Report Number THK-001_8171 SSR

Report to: T.H. Kinsella, Inc.
P.O. Box 7
Fayetteville, New York 13066

SURVEY LOCATION

8171 Salt Springs Road
Manlius, NY 13104

SCOPE OF WORK

At the request of T.H. Kinsella, Inc., Fox Professional Geology, PLLC (FoxPG) performed the following scope of work based on technical requirements contained in Condition (21) of the current Natural Resource Removal Permit issued to T.H. Kinsella, Inc. by the Town of Manlius (the Permit).

- Contact the owners of specific properties listed in Condition (21) of the Permit to seek permission to perform a baseline water well survey at each property.
- Compilation of general well information provided by the owners.
- Acoustical monitoring of the groundwater elevation within the water supply well at each property.
- Perform a water supply system flow rate test at one outdoor spigot/hose bib at each property over a period of one hour.
- Field observation and measurement of selected water quality parameters at each property including temperature, pH, conductivity, turbidity, dissolved oxygen, color, and odor.
- Collection of one groundwater sample produced from the water supply well at each property for laboratory analysis of selected water quality parameters including pH, specific conductance, turbidity, *E. coli*, color, odor, and metals.

Subsequent sections of this report are specific to the property located at 8171 Salt Springs Road in the Town of Manlius, Onondaga County, New York (the Property).

OWNER'S PERMISSION AND WELL INFORMATION REQUEST

Correspondence requesting permission to perform a baseline water well survey and information on the water well was sent to the Property owner via certified mail on 17 September 2025. Permission from the Property owner was received by FoxPG on 13 October 2025. The Property owner was subsequently contacted to describe the scope of work to be performed, obtain permission to perform the described scope of work, and if acceptable, schedule the performance of field work at the Property.

FIELD WORK

Field work was performed at the Property on 27 October 2025 after the Property owner showed FoxPG the locations and layout of the water well and supply system configurations. FoxPG described the scope of work to be performed and obtained permission from the Property owner to perform the described work. Field work was conducted to the extent practicable based on accessibility and feasibility considerations of the water well and supply system configurations.

Well and Pressure Tank Locations

The approximate location and surface elevation of the water well at the Property were measured using a Garmin ETREX 32X Global Positioning System (GPS) device. The top of the water well at the Property is buried below the ground surface, so the location measured was based on the owner's indication of the well's approximate location. The location of the water system pressure tank was determined through visual inspection.

Groundwater Level Measurement

Groundwater level measurement inside the well did not occur because the top of the well casing was buried below the ground surface.

Flow Rate and Pressure Test

Water flow rate and pressure readings were measured and recorded initially and approximately every 15 minutes thereafter at the location approved by the Property owner, which was an exterior hose bib located on the north side of the residence. Water from the hose bib was directed away from the house using the Property owner's garden hose to an on-site location approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve over a period of approximately one hour using a Duro Model MO-10060 flow meter and pressure test gauge. The test was performed for the sole purpose of measuring water flow rate and pressure and did not include any evaluation of any other considerations, including but not limited to any mechanical components and/or the structural soundness of the well or any of its connected piping or other system components.

Field Measurement of Water Quality Parameters

Subsequent to the completion of the flow rate and pressure test, the threaded end of the gate valve located near the base of the water pressure tank was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Laboratory Analysis of Water Quality Parameters

After completing the field measurement of water quality parameters, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was opened to allow a low, consistent flow of water and one water sample designated "8171-SSR-RAW" was collected directly into

laboratory-supplied sample containers. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace Analytical Services, LLC (Pace) service center in Syracuse, New York. Pace is a New York State Department of Health-approved environmental laboratory. Based on Condition (21) of the Permit, the sample was submitted to Pace for laboratory analysis of the following parameters:

- pH by United States Environmental Protection Agency (USEPA) Method 150.1;
- specific conductance by USEPA Method 120.1;
- turbidity by USEPA Method 180.1;
- *E. coli* by Standard Methods (SM)-9220;
- color by SM-2120B;
- odor by SM-2150B; and
- selected metals by USEPA Method 6010, except mercury by USEPA Method 7470.

RESULTS

Owner's Permission and Well Information Request

A copy of the Well Survey Questionnaire received from the Property owner is presented in Attachment A. The measured latitude and longitude coordinates of the water supply well's reported location are N 43.02618° and W -75.96162°, respectively. The measured surface elevation near the water supply well is 824 feet above mean sea level.

Groundwater Level Measurement

Groundwater level measurement in the well did not occur because the top of the well casing was buried below the ground surface.

Flow Rate Test

Pressure and flow rate readings collected during the test are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)
09:55	6.0	60
10:10	6.2	62
10:25	6.2	67
10:40	6.3	67
10:55	6.3	67

Notes:

gpm = gallons per minute

psi = pounds per square inch

Field Measurement of Water Quality Parameters

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected during field work are presented in the following table.

Water Well Survey Report Number THK-001_8171 SSR

8171 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

21 November 2025

Page 4 of 5

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
12:37	0.37	7.24	10.1	1.205	+174.9	6.43	-1.38
12:47	0.35	7.24	10.2	1.205	+178.3	6.48	-2.12
12:57	0.40	7.25	9.2	1.207	+182.7	6.44	-2.14
13:07	0.37	7.25	9.8	1.205	+185.9	6.39	-2.01
13:17	0.35	7.24	9.5	1.205	+188.8	6.39	-2.04

Notes:

gpm = gallons per minute

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential, reported in millivolts (mV)

DO = Dissolved Oxygen, reported in milligrams per liter (mg/L)

NTU = Nephelometric Turbidity Units

Laboratory Analysis of Water Quality Parameters

A copy of the laboratory analytical report received from Pace is presented in Attachment B. General water quality parameters and detected metals are presented in the following table.

Analyte (units)	Concentration	Standard*
Color, True	None	15
Odor @ 60°C	No Odor	3
<i>E. coli</i>	<1 (not detected)	No positive sample
pH	7.37	NS
Specific Conductance (mS/cm)	1.300	NS
Turbidity (NTU)	0.32	1 or 5
Metals (mg/L)		
Barium, Total	0.0835	1
Copper, Total	0.0343	0.2
Sodium, Total	24.5	20
Zinc, Total	0.0506	2

Notes:

* Standard = the lowest of the New York State Department of Environmental Conservation (NYSDEC) ambient water quality standards or guidance values (AWQS) for groundwater and/or the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs) for public drinking water. Public drinking water standards do not apply to private water wells in New York State, but they are routinely used by health departments as guidance values.

NS = no standard in New York State

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per liter

Yellow highlighting indicates an exceedance of its AWQS and/or MCL

The metals antimony and thallium were not detected; however, both the reporting limit and the method detection limit for these elements are greater than the NYSDEC AWQS and/or the NYSDOH MCLs for these metals.

SUMMARY NARRATIVE

The data and information contained in this report serve as a baseline to document information on the well and water system received from the Property owner. It also serves as a baseline to document water flow rate, pressure, and water quality conditions at the Property at the point(s) of measurement and sampling on the date of the field work. Visual, olfactory, or other evidence of potential contamination in groundwater from the well at the Property was not observed or detected during field work. Evaluation of laboratory analytical results indicates that all parameters were either not detected or were detected at concentrations below the indicated NYSDEC AWQS and/or NYSDOH MCLs with the exception of sodium, which slightly exceeded its NYSDEC AWQS of 20 mg/L.

CERTIFICATION

This report applies solely to the work performed and associated testing results as described above. The results and summary narrative contained in this report are based on currently available data and/or information and are subject to modification if additional data and/or information become available.

It is a violation of the New York State Education Law for any person, unless he or she is acting under the direction of a Licensed Professional Geologist or Licensed Professional Engineer, to alter this report and/or its drawings, figures, tables, and/or attachments in any way. This report was prepared for T.H. Kinsella, Inc. specific to the performance of a baseline water well survey project at the Property, for application to this Property and this project only.

By:

Fox Professional Geology, PLLC



Jon S. Fox, P.G.
Owner and Principal Geologist



Attachment A – Well Survey Questionnaire
Attachment B – Laboratory Analytical Report

Attachment A
Well Survey Questionnaire

WELL SURVEY QUESTIONNAIRE

1. Well Location: N.E. of Kitchen
2. Use of well: yes, Primary and only source.
3. Diameter of well: UKN
4. Depth of well: 143 ft
5. Date drilled: UKN
6. Type of pump: Unknown (UKN)
7. Pump/well yield (gpm): UKN
8. Well Type (open hole, screened, etc.): UKN
9. Water level (depth below top of casing): UKN
 - Date when measured: UKN
10. Drilling equipment:
 - ☐ Rotary
 - ☐ Compressed air percussion
11. Casing Details: ?
 - Total length: _____
 - Length below grade: _____
 - Diameter: _____
 - Materials (Steel, plate, etc.): Unknown

12. Well Yield Test Data: ?

Water Level	Drawdown	Yield (gpm)	Duration (hr:min)
<u>Unknown.</u>			

13. Attach copy of Well Log or complete the Well Log table below: ?

Depth from Surface	Water Bearing?	Well Diameter (in)	Formation Description
<u>Unknown</u>			

14. Water quality issues: ☐ Yes ☒ No

▪ If yes, please describe: _____

15. Treatment System: ☒ Yes ☐ No

▪ If yes, please describe: filter & Softner . RO for drinking.

16. Quantity issues: ☐ Yes ☒ No

▪ If yes, please describe: _____

Attachment B
Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L2567950
Client:	Fox Professional Geology, PLLC 310 Cherry Road Syracuse, NY 13219
ATTN:	Jon Fox
Phone:	(315) 935-6467
Project Name:	MANLIUS
Project Number:	THK-001
Report Date:	11/11/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: MANLIUS**Project Number:** THK-001**Lab Number:** L2567950**Report Date:** 11/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2567950-01	8171-SSR-RAW	WATER	MANLIUS, NY	10/27/25 13:25	10/27/25

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25**Case Narrative (continued)****Report Revision**

November 11, 2025: The Client ID was amended on L2567950-01.

Report Submission

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

The analysis of E. Coli was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

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

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 11/11/25

METALS

Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25**SAMPLE RESULTS**

Lab ID: L2567950-01
 Client ID: 8171-SSR-RAW
 Sample Location: MANLIUS, NY

Date Collected: 10/27/25 13:25
 Date Received: 10/27/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Barium, Total	0.0835		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Copper, Total	0.0343		mg/l	0.0100	0.0022	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/31/25 12:06	11/01/25 19:40	EPA 7470A	1,7470A	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Sodium, Total	24.5		mg/l	2.00	0.120	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Zinc, Total	0.0506		mg/l	0.0500	0.0021	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2135403-1										
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Sodium, Total	ND		mg/l	2.00	0.120	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2135421-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/31/25 12:06	11/01/25 18:04	1,7470A	RDB

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2135403-2								
Antimony, Total	100		-		80-120	-		20
Arsenic, Total	106		-		80-120	-		20
Barium, Total	107		-		80-120	-		20
Beryllium, Total	104		-		80-120	-		20
Cadmium, Total	101		-		80-120	-		20
Chromium, Total	104		-		80-120	-		20
Copper, Total	103		-		80-120	-		20
Iron, Total	105		-		80-120	-		20
Lead, Total	105		-		80-120	-		20
Manganese, Total	106		-		80-120	-		20
Nickel, Total	102		-		80-120	-		20
Selenium, Total	102		-		80-120	-		20
Silver, Total	106		-		80-120	-		20
Sodium, Total	106		-		80-120	-		20
Thallium, Total	103		-		80-120	-		20
Zinc, Total	102		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2135421-2								
Mercury, Total	99		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135403-3 QC Sample: L2567625-04 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.495	99		-	-		75-125	-		
Arsenic, Total	0.006J	0.12	0.137	114		-	-		75-125	-		
Barium, Total	0.053	2	2.13	104		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0500	100		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0541	102		-	-		75-125	-		
Chromium, Total	0.296	0.2	0.493	98		-	-		75-125	-		
Copper, Total	0.021	0.25	0.285	106		-	-		75-125	-		
Iron, Total	0.293	1	1.29	100		-	-		75-125	-		
Lead, Total	0.010J	0.53	0.563	106		-	-		75-125	-		
Manganese, Total	0.0240	0.5	0.522	100		-	-		75-125	-		
Nickel, Total	0.067	0.5	0.589	104		-	-		75-125	-		
Selenium, Total	ND	0.12	0.136	113		-	-		75-125	-		
Silver, Total	ND	0.05	0.0521	104		-	-		75-125	-		
Sodium, Total	213.	10	216	30	Q	-	-		75-125	-		
Thallium, Total	ND	0.12	0.124	103		-	-		75-125	-		
Zinc, Total	0.024J	0.5	0.536	107		-	-		75-125	-		

Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135421-3 QC Sample: L2567387-19 Client ID: MS Sample

Mercury, Total	ND	0.005	0.00465	93		-	-		75-125	-		
----------------	----	-------	---------	----	--	---	---	--	--------	---	--	--

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135403-4 QC Sample: L2567625-04 Client ID: DUP Sample						
Iron, Total	0.293	0.342	mg/l	15		20
Manganese, Total	0.0240	0.0250	mg/l	4		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135403-4 QC Sample: L2567625-04 Client ID: DUP Sample						
Sodium, Total	213.	207	mg/l	3		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135421-4 QC Sample: L2567387-19 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

SAMPLE RESULTS

Lab ID: L2567950-01
 Client ID: 8171-SSR-RAW
 Sample Location: MANLIUS, NY

Date Collected: 10/27/25 13:25
 Date Received: 10/27/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.32		NTU	0.20	0.20	1	-	10/28/25 21:18	44,180.1	AAS
Odor @ 60 C	NO ODOR		TON	1	1.0	1	-	10/28/25 04:10	121,2150B	CAR
Color, True	ND		A.P.C.U.	5.0	5.0	1	-	10/28/25 08:10	121,2120B	CAR
Specific Conductance	1300		umhos/cm	10	10.	1	-	10/28/25 03:41	4,120.1	CAR
pH (H)	7.37		SU	-	NA	1	-	10/28/25 21:21	121,4500H+-B	AAS



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2133512-1										
Odor	NO ODOR		TON	1	1.0	1	-	10/28/25 04:10	121,2150B	CAR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2134027-1										
Turbidity	ND		NTU	0.20	0.20	1	-	10/28/25 21:18	44,180.1	AAS



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2133508-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134027-2								
Turbidity	108		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134029-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis*Batch Quality Control***Project Name:** MANLIUS**Project Number:** THK-001**Lab Number:** L2567950**Report Date:** 11/11/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2133508-2 QC Sample: L2567852-01 Client ID: DUP Sample						
Specific Conductance	620	620	umhos/cm	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2133512-2 QC Sample: L2567950-01 Client ID: 8171-SSR-RAW						
Odor	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2133604-1 QC Sample: L2567950-01 Client ID: 8171-SSR-RAW						
Color, True	ND	ND	A.P.C.U.	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134027-3 QC Sample: L2568083-01 Client ID: DUP Sample						
Turbidity	0.21	0.23	NTU	9		13
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134029-2 QC Sample: L2568083-01 Client ID: DUP Sample						
pH	8.22	8.26	SU	0		5

Project Name: MANLIUS
Project Number: THK-001

Serial_No:11112509:46
Lab Number: L2567950
Report Date: 11/11/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2567950-01A	Plastic 250ml unpreserved	NA	NA			Y	Absent		COND-120(1),TURB-180(2),PH-4500(.01)
L2567950-01B	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),HG-T(28),MN-TI(180),FE-TI(180),NA-TI(180),CD-TI(180)
L2567950-01C	Amber 950ml unpreserved	NA	NA			Y	Absent		COLOR-T-2120(1),ODOR-2150(1)

Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25**Data Qualifiers**

estimated.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 28

Department: **Quality Assurance**

Published Date: 07/25/2025

Title: **Certificate/Approval Program Summary**

Page 1 of 2

Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1:** Hg. **EPA 245.7:** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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



Sample Delivery Group Summary

Pace Job Number : L2567950

Received : 27-OCT-2025

Reviewer : Matthew Bianculli

Account Name : Fox Professional Geology, PLLC

Project Number : THK-001

Project Name : MANLIUS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.4	

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

PACE Analytical
575 Broad Hollow Rd
Melville, NY 11747-
Attn: Giovanna Deloca

PROJECT NAME: L2567950
DATE: 11/10/2025

SAMPLE NUMBER- 960516 SAMPLE ID- 8171-SSR-RAW
DATE SAMPLED- 10/27/25
DATE RECEIVED- 10/27/25 SAMPLER- Client
TIME RECEIVED- 1549 DELIVERED BY- Casey

SAMPLE MATRIX- WA
TIME SAMPLED- 1325
RECEIVED BY- EM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		10/27/25		CES	5.0 Degrees C
E-Coli Enumeration	Colilert24	10/27/25	1600	BLO	< 1 per 100ml

Note: Revised report for Sample ID. This report replaces the report issued on 10/29/2025.

NYSDOH LAB ID NO. 11246

APPROVED BY:


(Terms and Conditions on Reverse Side)

Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample received by the Laboratory.

		Subcontract Chain of Custody Certified Environmental Services 7280 Caswell Street North Syracuse, NY 13210		MS424	Pace Job Number L2567950			
Client Information Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: westsubreports@pacelabs.com Bill To: invoices@pacelabs.com Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com		Project Information Project Location: NY Project Manager: Melissa Deyo Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables (Level 4) Report to MDL		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria:				
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2567950 Report to include Method and/or Regulatory required batch QC Additional Comments:								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2567950-01	8174-SSR-RAW 960516	10-27-25 13:25	WATER	E. Coli			0
Relinquished By:			Date/Time:		Received By:		Date/Time:	
			10/27/25 13:49				10-27-25 1549	
Form No: AL_subcoc								

barb@certifiedenvironmental.com

From: Melissa Deyo <Melissa.Deyo@pacelabs.com>
Sent: Friday, November 7, 2025 3:35 PM
To: Barb Duchene
Subject: Report Revision
Attachments: L2567950_sub.pdf

Hi Barb,

Can you update the sample ID on this report to 8171-SSR-RAW and issue a revised report?

Please see the following link for sample receipt Thanksgiving Day Holiday exceptions for PACE Westborough & Mansfield:  [Thanksgiving 2025.pdf](#)

Committed to you,

Melissa Deyo
 Project Manager 2, Westborough, MA
 Pace Analytical Services
 Main: 508-898-9220 | Direct: 716-427-5229 | www.pacelabs.com
 Rapid Response Line | (877) 859-7778



NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete any copies.

 Please consider the environment before printing this email



Certified
Environmental
Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: Pace

Batch Number: MS424

- | | Yes | No | If No Explain: |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Proper Full and Complete Documentation: | ☒ | ☐ | _____ |
| 2. Appropriate Sample Containers: | ☒ | ☐ | _____ |
| 3. Adequate Sample Volume: | ☒ | ☐ | _____ |
| 4. Hold Time(OK): | ☒ | ☐ | _____ |
| 5. Proper Sample Labeling: | ☒ | ☐ | _____ |
| 6. Sample Temperature: | ☒ | ☐ | _____ |
| 7. Sample Received on Ice: (Not required for Bact) | ☒ | ☐ | _____ |
| 8. Preservation OK: (Microbiology See Below) | ☐ | ☐ | _____ |
| 9. Preservation Not Applicable:(ie: Solid/Sludge, Alk,BOD,TSS,TS,Cl,F1,SO4,pH,Cond, etc): | | | ☒ |
| 10. CES Sample Container(s): If not sure ask client | ☐ | ☒ | _____ |

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC HNO₃ MT NaOH WCSP Ascorbic Acid WC

HCl WCSP Na₂S₂O₃ WC Other _____ Not Available ☐

Microbiology: ☒ Chlorinated Source (Sodium Thiosulfate)
☐ Non-Chlorinated Source (No Sodium Thiosulfate)

Additional Comments/Client Correspondence _____

Sample(s) Received By: EM Sample(s) Logged In By: RS Login Reviewed By: Ben

DOCUMENT ID: SRCL072522

Approved by: RRB

Date Put In Place: 11/28/23

CERTIFIED ENVIRONMENTAL SERVICES, INC.

TERMS AND CONDITIONS

1. Services completed by Certified Environmental Services, Inc. are done so in general accordance with the environmental services and/or analytical industries recognized methods.
2. Certified Environmental Services, Inc. does not assume any other liabilities other than re-performance of the work if the completed services are determined to be deficient due to the negligence of Certified Environmental Services, Inc. Under no circumstances shall Certified Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
3. Any claim made must be done in writing within thirty (30) days of Certified Environmental Services, Inc.'s written report.
4. Certified Environmental Services, Inc. will not accept any liability in whole or in part as a result of data interpretation by the client.
5. All reports are submitted in writing to our customers only. Certified Environmental Services, Inc. will not be responsible for the accuracy of the contents of any report obtained by anyone other than our Client.
6. Invoices for services rendered are generated periodically as the work is completed. All invoices are due within thirty (30) days of the invoice date. Any discrepancy with an invoice must be reported to the accounts receivable department within fifteen (15) days of the invoice date. All balances over thirty (30) days will be subject to a 1-1/2% finance charge.
7. The terms and conditions set forth herein shall not be altered in any way unless done so in writing and signed by a Manager of Certified Environmental Services, Inc.

Qualifiers (Updated 09.12.2018):

ND-Not Detected at reporting limit	NR-Not Reported	NA-Not Available
H-Regulatory hold time exceeded	R-Duplication outside in-house acceptance limits	
B-Analyte detected in Method Blank	A-Preservation incomplete. Additional acid added to sample prior to analysis.	
DO-Spike Diluted Out	E-Estimate	MDL-Method Detection Limit
S-Spike recovery outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
L-Laboratory Control Sample outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
#- NYS ELAP does not offer accreditation for this parameter.		
**For Solid Waste analysis where there is no approved method, this is a laboratory developed method.		
F - Filtration not performed within 15 minutes of sample collection as required by cited method.		
E - Total Suspended Solids, Estimate. Residue on filter below method requirement of 2.5 mg.		
E - Biochemical Oxygen Demand, Estimate. Depletion less than 2.0 as required by cited method.		
X- Exceeds maximum contamination limit.		



Fox Professional Geology, PLLC

310 Cherry Road
Syracuse, New York 13219
Phone: (315) 935-5467

24 November 2025

WATER WELL SURVEY REPORT

Report Number THK-001_8117 SSR

Report to: T.H. Kinsella, Inc.
P.O. Box 7
Fayetteville, New York 13066

SURVEY LOCATION

8117 Salt Springs Road
Manlius, NY 13104

SCOPE OF WORK

At the request of T.H. Kinsella, Inc., Fox Professional Geology, PLLC (FoxPG) performed the following scope of work based on technical requirements contained in Condition (21) of the current Natural Resource Removal Permit issued to T.H. Kinsella, Inc. by the Town of Manlius (the Permit).

- Contact the owners of specific properties listed in Condition (21) of the Permit to seek permission to perform a baseline water well survey at each property.
- Compilation of general well information provided by the owners.
- Acoustical monitoring of the groundwater elevation within the water supply well at each property.
- Perform a water supply system flow rate test at one outdoor spigot/hose bib at each property over a period of one hour.
- Field observation and measurement of selected water quality parameters at each property including temperature, pH, conductivity, turbidity, dissolved oxygen, color, and odor.
- Collection of one groundwater sample produced from the water supply well at each property for laboratory analysis of selected water quality parameters including pH, specific conductance, turbidity, *E. coli*, color, odor, and metals.

Subsequent sections of this report are specific to the property located at 8117 Salt Springs Road in the Town of Manlius, Onondaga County, New York (the Property).

OWNER'S PERMISSION AND WELL INFORMATION REQUEST

Correspondence requesting permission to perform a baseline water well survey and information on the water well was sent to the Property owner via certified mail on 17 September 2025. Initial permission from the Property owner dated 10 October 2025 was received by FoxPG via return mail. The Property owner was subsequently contacted via telephone to describe the scope of work to be performed, obtain permission to perform the described scope of work, and if acceptable, schedule the performance of field work at the Property.

FIELD WORK

Field work was initially performed at the Property on 29 October 2025 after the Property owner showed FoxPG the locations and layout of the water well and supply system configurations at the residence. FoxPG described the scope of work to be performed and obtained permission from the Property owner to perform the described work. Field work was conducted to the extent practicable based on accessibility and feasibility considerations of the water well and supply system configurations.

Well and Pressure Tank Locations

The approximate location and surface elevation of the water well at the Property were measured using a Garmin ETREX 32X Global Positioning System (GPS) device. The location of the water system pressure tank was determined through visual inspection.

Groundwater Level Measurement

An unsealed well cap was present on top of the six-inch steel well casing. The well cap was removed to provide access to the inside of the well. Depth to water inside the well was measured to the nearest 0.1 foot using a Ravensgate Corporation Model 300 sonic water level meter in normal operation mode with a temperature setting of 48° Fahrenheit (approximately 9° Celsius). The unsealed well cap was placed back on top of the well casing after the completion of water level measurements.

Flow Rate and Pressure Test

Water flow rate and pressure readings were measured and recorded initially and approximately every 15 minutes thereafter on 29 October 2025 at the location approved by the Property owner, which was an exterior hose bib located on the south side of the residential structure. Water from the hose bib was directed away from the house using the Property owner's garden hose to an on-site location approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve over a period of approximately one hour using a Duro Model MO-10060 flow meter and pressure test gauge. The test was performed for the sole purpose of measuring water flow rate and pressure and did not include any evaluation of any other considerations, including but not limited to any mechanical components and/or the structural soundness of the well or any of its connected piping or other system components.

Additional water flow rate and pressure readings were measured and recorded at the same location on 5 November 2025 during purging of the water well for collection of a second sample volume of water for laboratory analysis of *E. coli*. Water from the hose bib was directed away from the house using the Property owner's garden hose to the same on-site location previously approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve initially and one hour later at the end of well purging using a Duro Model MO-10060 flow meter and pressure test gauge.

Field Measurement of Water Quality Parameters

Subsequent to the completion of the water flow rate and pressure test on 29 October 2025, the threaded end of the gate valve located near the base of the water pressure tank in the basement was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially

opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Additional field measurement of water quality parameters occurred at the same location on 5 November 2025 for collection of a second sample volume of water for laboratory analysis of *E. coli*. The threaded end of the gate valve located near the base of the water pressure tank in the basement was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Laboratory Analysis of Water Quality Parameters

After completing the field measurement of water quality parameters on 29 October 2025, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was partially opened to allow a low, consistent flow of water and one water sample designated "8117-SSR-RAW" was collected directly into laboratory-supplied sample containers. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace Analytical Services, LLC (Pace) service center in Syracuse, New York. Pace is a New York State Department of Health (NYSDOH)-approved environmental laboratory. Based on Condition (21) of the Permit, the sample was submitted to Pace for laboratory analysis of the following parameters:

- pH by United States Environmental Protection Agency (USEPA) Method 150.1;
- specific conductance by USEPA Method 120.1;
- turbidity by USEPA Method 180.1;
- *E. coli* by Standard Methods (SM)-9220;
- color by SM-2120B;
- odor by SM-2150B; and
- selected metals by USEPA Method 6010, except mercury by USEPA Method 7470.

FoxPG was contacted by Pace on 30 October 2025 because the sample container collected at the Property on 29 October 2025 was not transported by Pace to their laboratory analytical subcontractor in time for the requested analysis of the sample for *E. coli* to occur within the required analytical holding time (i.e., analysis of the initial sample volume beyond the required holding time would have produced invalid laboratory analytical results). Therefore, a second sample volume of water was collected by FoxPG at the Property on 5 November 2025 solely for analysis of *E. coli*. After completing the field measurement of water quality parameters on 5 November 2025, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was partially opened to allow a low, consistent flow of water and one water sample designated "8117-SSR-RAW-2" was collected directly into a laboratory-supplied sample container. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace service center in Syracuse, New York. This sample was submitted to Pace for laboratory analysis of *E. coli* by SM-9220.

RESULTS

Owner's Permission and Well Information Request

A copy of the Well Survey Questionnaire received from the Property owner is presented in Attachment A. The measured latitude and longitude coordinates of the water supply well are N 43.02453° and W -75.96755°, respectively. The measured surface elevation near the water supply well is 789 feet above mean sea level.

Groundwater Level Measurement and Flow Rate Test

Water flow rate, pressure readings, and depth to water level measurements collected during the test on 29 October 2025 are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)	Depth to Water (feet below TOC)	Water Drawdown from Initial Level (feet)
10:45	6.2	38	10.1	0.0
10:49	NM	NM	10.1	0.0
10:51	NM	NM	10.1	0.0
10:55	NM	NM	10.1	0.0
11:00	6.2	41	10.1	0.0
11:10	NM	NM	10.2	0.1
11:15	6.4	42	10.1	0.0
11:20	NM	NM	10.1	0.0
11:25	NM	NM	10.1	0.0
11:30	6.5	42	10.2	0.1
11:35	NM	NM	10.2	0.1
11:40	NM	NM	10.1	0.0
11:45	7.6	41	10.1	0.0

Water flow rate and pressure readings collected during well purging and sample collection on 5 November 2025 are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)
10:10	6.7	45
11:10	6.5	41

Notes:

gpm = gallons per minute

psi = pounds per square inch

TOC = Top Of Casing (of the water well)

NM = Not Measured

Field Measurement of Water Quality Parameters

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank on 29 October 2025 indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected on 29 October 2025 are presented in the following table.

Water Well Survey Report Number THK-001_8117 SSR

8117 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 5 of 7

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
12:45	0.17	7.28	10.9	1.197	+213.7	7.03	-2.04
12:55	0.24	7.29	11.0	1.198	+215.4	6.99	-1.97
13:00	0.32	7.29	11.0	1.198	+216.8	6.98	-1.86
13:05	0.20	7.29	11.0	1.190	+219.1	6.96	-2.34
13:10	0.32	7.27	11.0	1.199	+220.6	6.96	-2.34
13:15	0.32	7.28	11.1	1.200	+223.3	6.94	20.32
13:20	0.26	7.28	11.1	1.200	+225.0	6.93	21.33
13:25	0.19	7.28	11.2	1.200	+226.5	6.92	0.51
13:27	0.19	7.28	11.2	1.200	+227.7	6.93	-2.67

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank on 5 November 2025 indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected on 5 November 2025 are presented in the following table.

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
11:15	0.20	7.12	10.9	1.441	+148.9	6.28	6.01
11:19	0.40	7.10	10.9	1.445	+149.0	6.25	7.14
11:25	0.38	7.10	10.7	1.445	+149.0	6.24	4.10
11:30	0.31	7.11	10.8	1.448	+149.0	6.22	7.63
11:35	0.26	7.11	10.8	1.449	+148.9	6.21	8.42
11:40	0.20	7.11	10.8	1.450	+148.9	6.19	11.80
11:45	NM	7.11	11.0	1.453	+148.8	6.22	16.80

Notes:

gpm = gallons per minute

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential, reported in millivolts (mV)

DO = Dissolved Oxygen, reported in milligrams per liter (mg/L)

NTU = Nephelometric Turbidity Units

NM = Not Measured

Laboratory Analysis of Water Quality Parameters

Copies of the laboratory analytical reports received from Pace are presented in Attachment B.

General water quality parameters and detected metals are presented in the following table.

Water Well Survey Report Number THK-001_8117 SSR

8117 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 6 of 7

Analyte (units)	Concentration	Standard*
Color, True	Not Detected	15
Odor @ 60°C	No Odor	3
<i>E. coli</i>	3	No positive sample
pH	7.80	NS
Specific Conductance (mS/cm)	1.300	NS
Turbidity (NTU)	0.63	1 or 5
Metals (mg/L)		
Barium, Total	0.124	1
Copper, Total	0.0738	0.2
Iron, Total	0.0284 J	0.3
Lead, Total	0.0073 J	0.025
Sodium, Total	52.7	20
Zinc, Total	0.0701 J	2

Notes:

* Standard = the lowest of the New York State Department of Environmental Conservation (NYSDEC) ambient water quality standards or guidance values (AWQS) for groundwater and/or the NYSDOH Maximum Contaminant Levels (MCLs) for public drinking water. Public drinking water standards do not apply to private water wells in New York State, but they are routinely used by health departments as guidance values.

NS = no standard in New York State

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per liter

J = estimated value (detected at a concentration below the analytical reporting limit, but above the method detection limit)

Yellow highlighting indicates an exceedance of its AWQS and/or MCL

FoxPG contacted the Property owner on the same day that FoxPG became aware of the positive analytical result for *E. coli* (13 November 2025) to promptly inform the Property owner of the result and to recommend that the Property owner promptly contact the Onondaga County Health Department for guidance on mitigation of the positive result for *E. coli*.

The metals antimony and thallium were not detected; however, both the analytical reporting limit and the method detection limit for these analytes are greater than the NYSDEC AWQS and/or the NYSDOH MCLs for these metals.

SUMMARY NARRATIVE

The data and information contained in this report serve as a baseline to document information on the well and water system received from the Property owner. They also serve as a baseline to document water flow rate, pressure, and water quality conditions at the Property at the point(s) of measurement and sampling on the date(s) of the field work. Water level data collected from the well during flow rate testing indicate there was no drawdown (lowering) of water levels inside the well at the end of the flow rate test. Visual, olfactory, or other evidence of potential contamination in groundwater from the well at the Property was not observed or detected during field work. Evaluation of laboratory analytical results indicates that all parameters were either not detected or were detected at concentrations below the indicated NYSDEC AWQS and/or NYSDOH MCLs with the exception of the positive detection of *E. coli*, which exceeded the NYSDOH MCL of “no positive sample”, and sodium, which exceeded its NYSDEC AWQS of 20 mg/L.

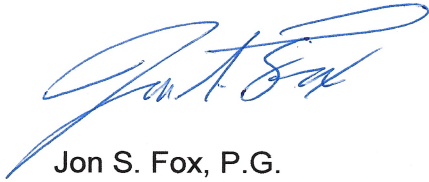
CERTIFICATION

This report applies solely to the work performed and associated testing results as described above. The results and summary narrative contained in this report are based on currently available data and/or information and are subject to modification if additional data and/or information become available.

It is a violation of the New York State Education Law for any person, unless he or she is acting under the direction of a Licensed Professional Geologist or Licensed Professional Engineer, to alter this report and/or its drawings, figures, tables, and/or attachments in any way. This report was prepared for T.H. Kinsella, Inc. specific to the performance of a baseline water well survey project at the Property, for application to this Property and this project only.

By:

Fox Professional Geology, PLLC



Jon S. Fox, P.G.
Owner and Principal Geologist



Attachment A – Well Survey Questionnaire
Attachment B – Laboratory Analytical Reports

Attachment A
Well Survey Questionnaire

WELL SURVEY QUESTIONNAIRE

1. Well Location: Front Yard
 2. Use of well: Only Source of Water
 3. Diameter of well: _____

6. Type of pump: _____
 7. Pump/well yield (gpm): _____
 8. Well Type (open hole, screened, etc.): _____
 9. Water level (depth below top of casing): _____

4. Depth of well: _____
 5. Date drilled: _____

▪ Date when measured: _____

10. Drilling equipment:
☐ Rotary
☐ Compressed air percussion

- ☐ Dug
☐ Other (specify): _____

11. Casing Details:
 ▪ Total length: _____
 ▪ Length below grade: _____

- Diameter: _____
 ▪ Materials (Steel, plate, etc.): _____

12. Well Yield Test Data:

Water Level	Drawdown	Yield (gpm)	Duration (hr:min)

13. Attach copy of Well Log or complete the Well Log table below:

Depth from Surface	Water Bearing?	Well Diameter (in)	Formation Description

14. Water quality issues: ☐ Yes
☐ No

▪ If yes, please describe: _____

15. Treatment System: ☐ Yes
☒ No

▪ If yes, please describe: _____

16. Quantity issues: ☐ Yes
☒ No

▪ If yes, please describe: _____

Attachment B
Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2568564
Client:	Fox Professional Geology, PLLC 310 Cherry Road Syracuse, NY 13219
ATTN:	Jon Fox
Phone:	(315) 935-6467
Project Name:	MANLIUS
Project Number:	THK-001
Report Date:	11/11/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2568564-01	8117-SSR-RAW	WATER	MANLIUS, NY	10/29/25 13:40	10/29/25

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2568564-01: Due to the expiration of the method required holding time, the requested analysis of E.Coli was cancelled.

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/11/25

METALS

Project Name: MANLIUS

Lab Number: L2568564

Project Number: THK-001

Report Date: 11/11/25

SAMPLE RESULTS

Lab ID: L2568564-01

Date Collected: 10/29/25 13:40

Client ID: 8117-SSR-RAW

Date Received: 10/29/25

Sample Location: MANLIUS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Barium, Total	0.124		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Copper, Total	0.0738		mg/l	0.0100	0.0022	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Iron, Total	0.0284	J	mg/l	0.0500	0.0090	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Lead, Total	0.0073	J	mg/l	0.0100	0.0027	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/25 11:59	11/06/25 18:59	EPA 7470A	1,7470A	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Sodium, Total	52.7		mg/l	2.00	0.120	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Zinc, Total	0.0701		mg/l	0.0500	0.0021	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136821-1										
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Barium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Copper, Total	ND		mg/l	0.0100	0.0022	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Iron, Total	ND		mg/l	0.0500	0.0090	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Lead, Total	ND		mg/l	0.0100	0.0027	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Sodium, Total	ND		mg/l	2.00	0.120	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Zinc, Total	ND		mg/l	0.0500	0.0021	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136823-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/25 11:59	11/06/25 18:09	1,7470A	RDB

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136821-2								
Antimony, Total	101		-		80-120	-		20
Arsenic, Total	101		-		80-120	-		20
Barium, Total	103		-		80-120	-		20
Beryllium, Total	104		-		80-120	-		20
Cadmium, Total	101		-		80-120	-		20
Chromium, Total	103		-		80-120	-		20
Copper, Total	98		-		80-120	-		20
Iron, Total	104		-		80-120	-		20
Lead, Total	103		-		80-120	-		20
Manganese, Total	103		-		80-120	-		20
Nickel, Total	102		-		80-120	-		20
Selenium, Total	98		-		80-120	-		20
Silver, Total	102		-		80-120	-		20
Sodium, Total	104		-		80-120	-		20
Thallium, Total	99		-		80-120	-		20
Zinc, Total	102		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136823-2								
Mercury, Total	99		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136821-3 WG2136821-4 QC Sample: L2558607-57 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.549	110		0.542	108		75-125	1		20
Arsenic, Total	0.091	0.12	0.220	108		0.218	106		75-125	1		20
Barium, Total	0.346	2	2.49	107		2.46	106		75-125	1		20
Beryllium, Total	ND	0.05	0.0536	107		0.0530	106		75-125	1		20
Cadmium, Total	ND	0.053	0.0550	104		0.0541	102		75-125	2		20
Chromium, Total	ND	0.2	0.209	104		0.207	104		75-125	1		20
Copper, Total	ND	0.25	0.259	104		0.256	102		75-125	1		20
Iron, Total	6.75	1	7.80	105		7.78	103		75-125	0		20
Lead, Total	0.0067J	0.53	0.569	107		0.567	107		75-125	0		20
Manganese, Total	1.50	0.5	2.02	104		2.01	102		75-125	0		20
Nickel, Total	ND	0.5	0.523	105		0.516	103		75-125	1		20
Selenium, Total	ND	0.12	0.126	105		0.127	106		75-125	1		20
Silver, Total	ND	0.05	0.0537	107		0.0528	106		75-125	2		20
Sodium, Total	9.03	10	20.0	110		20.0	110		75-125	0		20
Thallium, Total	ND	0.12	0.121	101		0.120	100		75-125	1		20
Zinc, Total	0.097	0.5	0.619	104		0.612	103		75-125	1		20

Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136823-3 WG2136823-4 QC Sample: L2568302-02 Client ID: MS Sample

Mercury, Total	ND	0.005	0.00474	95		0.00480	96		75-125	1		20
----------------	----	-------	---------	----	--	---------	----	--	--------	---	--	----

Matrix Spike Analysis
Batch Quality Control

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136823-5 WG2136823-6 QC Sample: L2569087-05 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00500	100		0.00489	98		75-125	2		20

INORGANICS & MISCELLANEOUS

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

SAMPLE RESULTS

Lab ID: L2568564-01
 Client ID: 8117-SSR-RAW
 Sample Location: MANLIUS, NY

Date Collected: 10/29/25 13:40
 Date Received: 10/29/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.63		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO
Odor @ 60 C	NO ODOR		TON	1	1.0	1	-	10/30/25 05:20	121,2150B	CAR
Color, True	ND		A.P.C.U.	5.0	5.0	1	-	10/30/25 05:25	121,2120B	CAR
Specific Conductance	1300		umhos/cm	10	10.	1	-	10/30/25 09:33	4,120.1	DMO
pH (H)	7.80		SU	-	NA	1	-	10/30/25 16:50	121,4500H+-B	AAS



Project Name: MANLIUS

Lab Number: L2568564

Project Number: THK-001

Report Date: 11/11/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2134753-1										
Odor	NO ODOR		TON	1	1.0	1	-	10/30/25 05:20	121,2150B	CAR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2135296-1										
Turbidity	ND		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134856-1								
Specific Conductance	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135126-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135296-2								
Turbidity	94		-		90-110	-		

Lab Duplicate Analysis*Batch Quality Control***Project Name:** MANLIUS**Project Number:** THK-001**Lab Number:** L2568564**Report Date:** 11/11/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134753-2 QC Sample: L2568564-01 Client ID: 8117-SSR-RAW						
Odor	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134754-1 QC Sample: L2568564-01 Client ID: 8117-SSR-RAW						
Color, True	ND	ND	A.P.C.U.	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134856-2 QC Sample: L2568564-01 Client ID: 8117-SSR-RAW						
Specific Conductance	1300	1300	umhos/cm	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135126-2 QC Sample: L2562289-01 Client ID: DUP Sample						
pH	8.10	8.18	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135296-3 QC Sample: L2568564-01 Client ID: 8117-SSR-RAW						
Turbidity	0.63	0.65	NTU	3		13

Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2568564-01A	Bacteria Cup unpreserved	NA	NA			Y	Absent		ARCHIVE()
L2568564-01B	Plastic 250ml unpreserved	NA	NA			Y	Absent		COND-120(1),TURB-180(2),COLOR-T-2120(1),PH-4500(.01)
L2568564-01C	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),NA-TI(180)
L2568564-01D	Amber 950ml unpreserved	NA	NA			Y	Absent		ODOR-2150(1)

Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**Data Qualifiers**

estimated.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **28**Published Date: **07/25/2025**Page **1** of **2****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

MADEP-APH.**Nonpotable Water:** **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1:** Hg. **EPA 245.7:** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 10/30/25		ALPHA L2568564 FOX 																					
		Project Information Project Name: <u>Manlius</u> Project Location: <u>Manlius, NY</u> Project # <u>THK-001</u> (Use Project name as Project #) ☐		Deliverables ☒ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other		Billing In ☒ San. PO #																							
Client Information Client: <u>FoxPG</u> Address: <u>310 Cherry Rd.</u> <u>Syracuse, NY 13219</u> Phone: <u>315-935-5467</u> Fax: <u></u> Email: <u>jon.fox@jonfoxpg.com</u>		Project Manager: <u>Jon Fox</u> ALPHAQuote #: <u>00191642</u> Turn-Around Time Standard ☒ Due Date: <u></u> Rush (only if pre approved) ☐ # of Days: <u></u>		Regulatory Requirement ☒ NY TOGS ☐ NY Part 375 ☒ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																							
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: <u>Only report the specific metals listed below *</u> Please specify Metals or TX: <u>Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Hg, Tl, Zn</u>						ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>E. Coli</th> <th>pH/Cond./Turbidity</th> <th>Metals *</th> <th>Odor and Color</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		E. Coli	pH/Cond./Turbidity	Metals *	Odor and Color							X	X	X	X							Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments	
E. Coli	pH/Cond./Turbidity	Metals *	Odor and Color																										
X	X	X	X																										
ALPHA Lab ID (Lab Use Only) <u>68564-1</u>		Sample ID <u>8117-SSK-RAW</u>		Collection Date: <u>10/29/2025</u> Time: <u>1340</u>		Sample Matrix <u>GLW</u>		Sampler's Initials <u>JSF</u>		Total Bottles <u>1</u>																			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>B P P A</u>		Preservative <u>H A C A</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																			
Relinquished By: <u>Jon. Fox</u>		Date/Time <u>10/29/2025, 1500</u>		Received By: <u>[Signature]</u>		Date/Time <u>10/29-25 1826</u>		Date/Time <u>10/29 2300</u>		Date/Time <u>10/30/25 03:00</u>																			
Form No: 01-25 HC (rev. 30-Sept-2013)																													



Sample Delivery Group Summary

Pace Job Number : L2568564

Received : 29-OCT-2025

Reviewer : Mohammed Wahed

Account Name : Fox Professional Geology, PLLC

Project Number : THK-001

Project Name : MANLIUS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.2	

Condition Information

- | | |
|--|------------|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|-----------|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|-----------|



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

PACE Analytical
575 Broad Hollow Rd
Melville, NY 11747-
Attn: Giovanna Deloca

PROJECT NAME: L2570091
DATE: 11/06/2025

SAMPLE NUMBER- 961414 SAMPLE ID- 8117-SSR-Raw-2
DATE SAMPLED- 11/05/25
DATE RECEIVED- 11/05/25 SAMPLER- Client
TIME RECEIVED- 1420 DELIVERED BY- Pace

SAMPLE MATRIX- WA
TIME SAMPLED- 1155
RECEIVED BY- EM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		11/05/25		CES	2.6 Degrees C
E-Coli Enumeration	Colilert24	11/05/25	1430	BLO	3 per 100ml

NYSDOH LAB ID NO. 11246

APPROVED BY:


(Terms and Conditions on Reverse Side)

**Barbara L. DuChene
Laboratory Manager**

The analytical results on this sample are representative of the sample received by the Laboratory.



Subcontract Chain of Custody

Certified Environmental Services
7280 Caswell Street
North Syracuse, NY 13210

Pace Job Number
L2570091

MSL 90

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019
Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.coupahost.com
Phone: 716.427.5229
Email: Melissa.Deyo@pacelabs.com

Project Information

Project Location: NY
Project Manager: Melissa Deyo

State/Federal Program:
Regulatory Criteria:

Turnaround & Deliverables Information

Due Date:
Deliverables:

Report to MDL

Regulatory Requirements/Report Limits

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2570091 Report to include Method and/or Regulatory required batch QC

Additional Comments:

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2570091-01	8117-SSR-RAW-2 961414	11-05-25 11:55	WATER	E. Coli			0
			Relinquished By: 		Date/Time: 11-5-25 1420	Received By: 	Date/Time: 11-5-25 1420	
Form No: AL_subcoc								



Certified
Environmental
Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: Pace

Batch Number: <u>MS690</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Sample Received on Ice: (Not required for Bact)	☒	☐	_____
8. Preservation OK: (Microbiology See Below)	☐	☐	_____
9. Preservation Not Applicable:(ie: Solid/Sludge, Alk,BOD,TSS,TS,Cl,Fl,SO4,pH,Cond, etc):	☒		
10. CES Sample Container(s): If not sure ask client	☐	☒	_____

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC HNO₃ MT NaOH WCSP Ascorbic Acid WC

HCl WCSP Na₂S₂O₃ WC Other _____ Not Available ☐

Microbiology: ☒ Chlorinated Source (Sodium Thiosulfate)
☐ Non-Chlorinated Source (No Sodium Thiosulfate)

Additional Comments/Client Correspondence _____

Sample(s) Received By: EM Sample(s) Logged In By: ES Login Reviewed By: SLD

DOCUMENT ID: SRCL072522

Approved by: RRB

Date Put In Place: 11/28/23

CERTIFIED ENVIRONMENTAL SERVICES, INC.

TERMS AND CONDITIONS

1. Services completed by Certified Environmental Services, Inc. are done so in general accordance with the environmental services and/or analytical industries recognized methods.
2. Certified Environmental Services, Inc. does not assume any other liabilities other than re-performance of the work if the completed services are determined to be deficient due to the negligence of Certified Environmental Services, Inc. Under no circumstances shall Certified Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
3. Any claim made must be done in writing within thirty (30) days of Certified Environmental Services, Inc.'s written report.
4. Certified Environmental Services, Inc. will not accept any liability in whole or in part as a result of data interpretation by the client.
5. All reports are submitted in writing to our customers only. Certified Environmental Services, Inc. will not be responsible for the accuracy of the contents of any report obtained by anyone other than our Client.
6. Invoices for services rendered are generated periodically as the work is completed. All invoices are due within thirty (30) days of the invoice date. Any discrepancy with an invoice must be reported to the accounts receivable department within fifteen (15) days of the invoice date. All balances over thirty (30) days will be subject to a 1-1/2% finance charge.
7. The terms and conditions set forth herein shall not be altered in any way unless done so in writing and signed by a Manager of Certified Environmental Services, Inc.

Qualifiers (Updated 09.12.2018):

ND-Not Detected at reporting limit	NR-Not Reported	NA-Not Available
H-Regulatory hold time exceeded	R-Duplication outside in-house acceptance limits	
B-Analyte detected in Method Blank	A-Preservation incomplete. Additional acid added to sample prior to analysis.	
DO-Spike Diluted Out	E-Estimate	MDL-Method Detection Limit
S-Spike recovery outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
L-Laboratory Control Sample outside acceptance limits (+ is over – is under, results may be biased high or biased low)		

#- NYS ELAP does not offer accreditation for this parameter.

**For Solid Waste analysis where there is no approved method, this is a laboratory developed method.

F - Filtration not performed within 15 minutes of sample collection as required by cited method.

E - Total Suspended Solids, Estimate. Residue on filter below method requirement of 2.5 mg.

E - Biochemical Oxygen Demand, Estimate. Depletion less than 2.0 as required by cited method.

X- Exceeds maximum contamination limit.



Fox Professional Geology, PLLC

310 Cherry Road
Syracuse, New York 13219
Phone: (315) 935-5467

24 November 2025

WATER WELL SURVEY REPORT

Report Number THK-001_8142 SSR

Report to: T.H. Kinsella, Inc.
P.O. Box 7
Fayetteville, New York 13066

SURVEY LOCATION

8142 Salt Springs Road
Manlius, NY 13104

SCOPE OF WORK

At the request of T.H. Kinsella, Inc., Fox Professional Geology, PLLC (FoxPG) performed the following scope of work based on technical requirements contained in Condition (21) of the current Natural Resource Removal Permit issued to T.H. Kinsella, Inc. by the Town of Manlius (the Permit).

- Contact the owners of specific properties listed in Condition (21) of the Permit to seek permission to perform a baseline water well survey at each property.
- Compilation of general well information provided by the owners.
- Acoustical monitoring of the groundwater elevation within the water supply well at each property.
- Perform a water supply system flow rate test at one outdoor spigot/hose bib at each property over a period of one hour.
- Field observation and measurement of selected water quality parameters at each property including temperature, pH, conductivity, turbidity, dissolved oxygen, color, and odor.
- Collection of one groundwater sample produced from the water supply well at each property for laboratory analysis of selected water quality parameters including pH, specific conductance, turbidity, *E. coli*, color, odor, and metals.

Subsequent sections of this report are specific to the property located at 8142 Salt Springs Road in the Town of Manlius, Onondaga County, New York (the Property). According to the Property owner, three separate structures are serviced by one water supply well at the Property; a residence, a barn, and a veterinary clinic. All testing performed by FoxPG occurred only at the residential structure.

OWNER'S PERMISSION AND WELL INFORMATION REQUEST

Correspondence requesting permission to perform a baseline water well survey and information on the water well was sent to the Property owner via certified mail on 17 September 2025. Initial permission from the Property owner was received by FoxPG on 8 October 2025, followed by receipt of the permission form on 16 October 2025. The Property owner was subsequently contacted via

telephone to describe the scope of work to be performed, obtain permission to perform the described scope of work, and if acceptable, schedule the performance of field work at the Property.

FIELD WORK

Field work was performed at the Property on 30 October 2025 after the Property owner showed FoxPG the locations and layout of the water well and supply system configurations at the residence. FoxPG described the scope of work to be performed and obtained permission from the Property owner to perform the described work. Field work was conducted to the extent practicable based on accessibility and feasibility considerations of the water well and supply system configurations.

Well and Pressure Tank Locations

The approximate location and surface elevation of the water well at the Property were measured using a Garmin ETREX 32X Global Positioning System (GPS) device. The Property owner indicated the top of the water well at the Property is located below the ground surface inside a vault, so the location measured was based on the owner's indication of the well's approximate location. The location of the water system pressure tank was determined through visual inspection.

Groundwater Level Measurement

Groundwater level measurement inside the well did not occur because the top of the well casing was below the ground surface inside a vault and was not readily accessible.

Flow Rate and Pressure Test

Water flow rate and pressure readings were measured and recorded initially and approximately every 15 minutes thereafter at the location approved by the Property owner, which was an exterior hose bib located at the southeastern corner of the residential structure. Water from the hose bib was directed away from the house using the Property owner's garden hose to an on-site location approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve over a period of approximately one hour using a Duro Model MO-10060 flow meter and pressure test gauge. The test was performed for the sole purpose of measuring water flow rate and pressure and did not include any evaluation of any other considerations, including but not limited to any mechanical components and/or the structural soundness of the well or any of its connected piping or other system components.

Field Measurement of Water Quality Parameters

Subsequent to the completion of the water flow rate and pressure test, the threaded end of the gate valve located near the base of the water pressure tank in the basement was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Laboratory Analysis of Water Quality Parameters

After completing the field measurement of water quality parameters, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was partially opened to allow a low, consistent flow of water and one water sample designated "8142-SSR-RAW" was collected directly into laboratory-supplied sample containers. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace Analytical Services, LLC (Pace) service center in Syracuse, New York. Pace is a New York State Department of Health (NYSDOH)-approved environmental laboratory. Based on Condition (21) of the Permit, the sample was submitted to Pace for laboratory analysis of the following parameters:

- pH by United States Environmental Protection Agency (USEPA) Method 150.1;
- specific conductance by USEPA Method 120.1;
- turbidity by USEPA Method 180.1;
- *E. coli* by Standard Methods (SM)-9220;
- color by SM-2120B;
- odor by SM-2150B; and
- selected metals by USEPA Method 6010, except mercury by USEPA Method 7470.

RESULTS

Owner's Permission and Well Information Request

A copy of the Well Survey Questionnaire received from the Property owner is presented in Attachment A. The measured latitude and longitude coordinates of the water supply well's reported location are N 43.02500° and W -75.96381°, respectively. The measured surface elevation near the water supply well is 829 feet above mean sea level.

Groundwater Level Measurement

The well's vault cover was removed, which revealed the presence of many irregular-shaped pieces of foam insulation. FoxPG removed the uppermost pieces of foam insulation by hand but did not find the top of the well. Therefore, groundwater level measurement in the well did not occur because the top of the well casing was not readily accessible. The pieces of foam insulation and the vault cover were replaced to their approximate pre-existing positions.

Flow Rate Test

Water flow rate and pressure readings collected during the test are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)
09:57	7.6	46
10:12	9.2	63
10:27	11.9	69
10:42	11.9	68
10:57	9.5	68

Notes:

gpm = gallons per minute

psi = pounds per square inch

Field Measurement of Water Quality Parameters

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected during field work are presented in the following table.

Water Well Survey Report Number THK-001_8142 SSR

8142 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 4 of 5

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
11:32	0.57	7.28	9.1	1.189	+208.1	6.72	-2.48
11:37	0.49	7.28	9.1	1.189	+208.4	6.65	-2.44
11:42	0.42	7.28	9.1	1.190	+209.2	6.62	-2.25
11:47	0.40	7.28	9.2	1.190	+209.7	6.61	-2.07
11:52	0.61	7.29	8.7	1.191	+209.9	6.67	-2.50
11:57	0.40	7.29	9.1	1.190	+209.9	6.59	-2.60
12:02	0.36	7.29	9.1	1.190	+210.3	6.70	-1.37

Notes:

gpm = gallons per minute

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential, reported in millivolts (mV)

DO = Dissolved Oxygen, reported in milligrams per liter (mg/L)

NTU = Nephelometric Turbidity Units

Laboratory Analysis of Water Quality Parameters

A copy of the laboratory analytical report received from Pace is presented in Attachment B. General water quality parameters and detected metals are presented in the following table.

Analyte (units)	Concentration	Standard*
Color, True	Not Detected	15
Odor @ 60°C	No Odor	3
<i>E. coli</i>	<1 (Not Detected)	No positive sample
pH	7.31	NS
Specific Conductance (mS/cm)	1.300	NS
Turbidity (NTU)	0.41	1 or 5
Metals (mg/L)		
Barium, Total	0.0929	1
Copper, Total	0.0121	0.2
Iron, Total	0.014 J	0.3
Sodium, Total	25.8	20
Zinc, Total	0.0487 J	2

Notes:

* Standard = the lowest of the New York State Department of Environmental Conservation (NYSDEC) ambient water quality standards or guidance values (AWQS) for groundwater and/or the NYSDOH Maximum Contaminant Levels (MCLs) for public drinking water. Public drinking water standards do not apply to private water wells in New York State, but they are routinely used by health departments as guidance values.

NS = no standard in New York State

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per liter

J = estimated value (detected at a concentration below the analytical reporting limit, but above the method detection limit)

Yellow highlighting indicates an exceedance of its AWQS and/or MCL

The metals antimony and thallium were not detected; however, both the analytical reporting limit and the method detection limit for these analytes are greater than the NYSDEC AWQS and/or the NYSDOH MCLs for these metals.

SUMMARY NARRATIVE

The data and information contained in this report serve as a baseline to document information on the well and water system received from the Property owner. They also serve as a baseline to document water flow rate, pressure, and water quality conditions at the Property at the point(s) of measurement and sampling on the date of the field work. Visual, olfactory, or other evidence of potential contamination in groundwater from the well at the Property was not observed or detected during field work. Evaluation of laboratory analytical results indicates that all parameters were either not detected or were detected at concentrations below the indicated NYSDEC AWQS and/or NYSDOH MCLs with the exception of sodium, which slightly exceeded its NYSDEC AWQS of 20 mg/L.

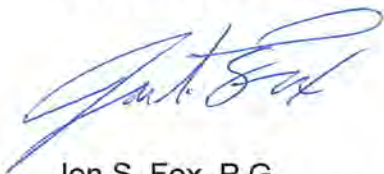
CERTIFICATION

This report applies solely to the work performed and associated testing results as described above. The results and summary narrative contained in this report are based on currently available data and/or information and are subject to modification if additional data and/or information become available.

It is a violation of the New York State Education Law for any person, unless he or she is acting under the direction of a Licensed Professional Geologist or Licensed Professional Engineer, to alter this report and/or its drawings, figures, tables, and/or attachments in any way. This report was prepared for T.H. Kinsella, Inc. specific to the performance of a baseline water well survey project at the Property, for application to this Property and this project only.

By:

Fox Professional Geology, PLLC



Jon S. Fox, P.G.
Owner and Principal Geologist



Attachment A – Well Survey Questionnaire
Attachment B – Laboratory Analytical Report

Attachment A
Well Survey Questionnaire

WELL SURVEY QUESTIONNAIRE

1. Well Location: Garage Door
2. Use of well: Residential/Commercial
3. Diameter of well: Unknown
4. Depth of well: Unknown
5. Date drilled: Unknown
6. Type of pump: Unknown
7. Pump/well yield (gpm): Unknown
8. Well Type (open hole, screened, etc.): Unknown
9. Water level (depth below top of casing): Unknown
- Date when measured: _____
10. Drilling equipment: Unknown
- ☐ Rotary
- ☐ Compressed air percussion
- ☐ Dug
- ☐ Other (specify): Unknown
11. Casing Details: Unknown
- Total length: _____
- Length below grade: _____
- Diameter: Unknown
- Materials (Steel, plate, etc.): _____

12. Well Yield Test Data:

Water Level	Drawdown	Yield (gpm)	Duration (hr:min)

13. Attach copy of Well Log or complete the Well Log table below:

Depth from Surface	Water Bearing?	Well Diameter (in)	Formation Description

14. Water quality issues: ☐ Yes ☒ No
- If yes, please describe: _____
15. Treatment System: ☐ Yes ☒ No
- If yes, please describe: _____
16. Quantity issues: ☐ Yes ☒ No
- If yes, please describe: _____

Attachment B
Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L2568873
Client:	Fox Professional Geology, PLLC 310 Cherry Road Syracuse, NY 13219
ATTN:	Jon Fox
Phone:	(315) 935-6467
Project Name:	MANLIUS
Project Number:	THK-001
Report Date:	11/10/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2568873-01	8142-SSR-RAW	WATER	MANLIUS, NY	10/30/25 12:10	10/30/25

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**Case Narrative (continued)**

Report Submission

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

The analysis of Escherichia coli was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

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

Authorized Signature:

 Tiffani Morrissey

Title: Technical Director/Representative

Date: 11/10/25

METALS

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**SAMPLE RESULTS**

Lab ID: L2568873-01
 Client ID: 8142-SSR-RAW
 Sample Location: MANLIUS, NY

Date Collected: 10/30/25 12:10
 Date Received: 10/30/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Barium, Total	0.0929		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Copper, Total	0.0121		mg/l	0.0100	0.0022	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Iron, Total	0.0140	J	mg/l	0.0500	0.0090	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Lead, Total	ND		mg/l	0.0100	0.0027	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/25 21:10	11/08/25 13:24	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Sodium, Total	25.8		mg/l	2.00	0.120	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Zinc, Total	0.0487	J	mg/l	0.0500	0.0021	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136943-1										
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	11/04/25 21:10	11/07/25 10:02	1,7470A	CME

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136957-1										
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Barium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Copper, Total	0.0026	J	mg/l	0.0100	0.0022	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Iron, Total	ND		mg/l	0.0500	0.0090	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Lead, Total	ND		mg/l	0.0100	0.0027	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Sodium, Total	ND		mg/l	2.00	0.120	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Zinc, Total	ND		mg/l	0.0500	0.0021	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136943-2								
Mercury, Total	111		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136957-2								
Antimony, Total	98		-		80-120	-		20
Arsenic, Total	97		-		80-120	-		20
Barium, Total	100		-		80-120	-		20
Beryllium, Total	100		-		80-120	-		20
Cadmium, Total	98		-		80-120	-		20
Chromium, Total	98		-		80-120	-		20
Copper, Total	100		-		80-120	-		20
Iron, Total	100		-		80-120	-		20
Lead, Total	101		-		80-120	-		20
Manganese, Total	100		-		80-120	-		20
Nickel, Total	99		-		80-120	-		20
Selenium, Total	98		-		80-120	-		20
Silver, Total	99		-		80-120	-		20
Sodium, Total	102		-		80-120	-		20
Thallium, Total	99		-		80-120	-		20
Zinc, Total	99		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136943-3 WG2136943-4 QC Sample: L2568270-04 Client ID: MS Sample												
Mercury, Total	0.00010J	0.005	0.00429	86		0.00586	117		75-125	31	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136957-3 QC Sample: L2568625-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.502	100		-	-		75-125	-		
Arsenic, Total	0.002J	0.12	0.126	105		-	-		75-125	-		
Barium, Total	0.035	2	2.03	100		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0508	102		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0516	97		-	-		75-125	-		
Chromium, Total	0.011	0.2	0.208	99		-	-		75-125	-		
Copper, Total	0.021	0.25	0.274	101		-	-		75-125	-		
Iron, Total	6.91	1	7.87	96		-	-		75-125	-		
Lead, Total	0.004J	0.53	0.547	103		-	-		75-125	-		
Manganese, Total	0.183	0.5	0.679	99		-	-		75-125	-		
Nickel, Total	0.006J	0.5	0.497	99		-	-		75-125	-		
Selenium, Total	ND	0.12	0.0940	78		-	-		75-125	-		
Silver, Total	ND	0.05	0.0513	103		-	-		75-125	-		
Sodium, Total	5.35	10	15.6	102		-	-		75-125	-		
Thallium, Total	ND	0.12	0.121	101		-	-		75-125	-		
Zinc, Total	0.019J	0.5	0.515	103		-	-		75-125	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136957-4 QC Sample: L2568625-01 Client ID: DUP Sample						
Iron, Total	6.91	6.85	mg/l	1		20
Manganese, Total	0.183	0.185	mg/l	1		20

INORGANICS & MISCELLANEOUS

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

SAMPLE RESULTS

Lab ID: L2568873-01

Client ID: 8142-SSR-RAW

Sample Location: MANLIUS, NY

Date Collected: 10/30/25 12:10

Date Received: 10/30/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.41		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO
Odor @ 60 C	NO ODOR		TON	1	1.0	1	-	10/31/25 06:50	121,2150B	DMO
Color, True	ND		A.P.C.U.	5.0	5.0	1	-	10/31/25 09:50	121,2120B	DMO
Specific Conductance	1300		umhos/cm	10	10.	1	-	10/31/25 09:39	4,120.1	DMO
pH (H)	7.31		SU	-	NA	1	-	11/01/25 10:26	121,4500H+-B	DMO



Project Name: MANLIUS

Lab Number: L2568873

Project Number: THK-001

Report Date: 11/10/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2135296-1										
Turbidity	ND		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2135298-1										
Odor	NO ODOR		TON	1	1.0	1	-	10/31/25 06:50	121,2150B	DMO



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135296-2								
Turbidity	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135407-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135780-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis*Batch Quality Control***Project Name:** MANLIUS**Project Number:** THK-001**Lab Number:** L2568873**Report Date:** 11/10/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135296-3 QC Sample: L2568564-01 Client ID: DUP Sample						
Turbidity	0.63	0.65	NTU	3		13
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135298-2 QC Sample: L2568873-01 Client ID: 8142-SSR-RAW						
Odor	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135406-1 QC Sample: L2568873-01 Client ID: 8142-SSR-RAW						
Color, True	ND	ND	A.P.C.U.	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135407-2 QC Sample: L2568873-01 Client ID: 8142-SSR-RAW						
Specific Conductance	1300	1300	umhos/cm	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2135780-2 QC Sample: L2568591-01 Client ID: DUP Sample						
pH	7.44	7.48	SU	1		5

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2568873-01A	Plastic 250ml unpreserved	NA	NA			Y	Absent		TURB-180(2),COND-120(1),PH-4500(.01)
L2568873-01B	Plastic 250ml HNO3 preserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180)
L2568873-01C	Amber 950ml unpreserved	NA	NA			Y	Absent		COLOR-T-2120(1),ODOR-2150(1)

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**Data Qualifiers**

estimated.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **28**Published Date: **07/25/2025**Page **1** of **2****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

MADEP-APH.**Nonpotable Water:** **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1:** Hg. **EPA 245.7:** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

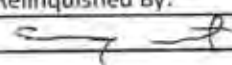
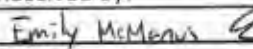
For a complete listing of analytes and methods, please contact your Project Manager.

^d 10/31/28

L2568873
FOX



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

		Subcontract Chain of Custody Certified Environmental Services 7280 Caswell Street North Syracuse, NY 13210			Pace Job Number L2568873			
		Page 1						
Client Information		Project Information			Regulatory Requirements/Report Limits			
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com		Project Location: NY Project Manager: Melissa Deyo			State/Federal Program: Regulatory Criteria: Report to MDL			
		Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables (Level 4)						
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2568873 Report to include Method and/or Regulatory required batch QC								
Additional Comments:								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2568873-01	8142-SSR-RAW	10-30-25 12:10	WATER	E. Coll			0
								4.2°C
Relinquished By: 					Date/Time: 10/30/25 1450	Received By: 		Date/Time: 10/30/25 1450
Form No: AL_subcoc								



Sample Delivery Group Summary

Pace Job Number : L2568873

Received : 30-OCT-2025

Account Name : Fox Professional Geology, PLLC

Reviewer : Maile Kolton

Project Number : THK-001

Project Name : MANLIUS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.6	

Condition Information

- | | |
|--|------------|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|-----------|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|-----------|



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

PACE Analytical
575 Broad Hollow Rd
Melville, NY 11747-
Attn: Giovanna Deloca

PROJECT NAME: L2568873
DATE: 10/31/2025

SAMPLE NUMBER- 960884 SAMPLE ID- 8142-SSR-Raw
DATE SAMPLED- 10/30/25
DATE RECEIVED- 10/30/25 SAMPLER- Client
TIME RECEIVED- 1450 DELIVERED BY- Pace

SAMPLE MATRIX- WW
TIME SAMPLED- 1210
RECEIVED BY- EM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
Sample Receipt Temperature		10/30/25		CES	4.2	Degrees C
E-Coli Enumeration	Colilert24	10/30/25	1455	BLO	< 1	per 100ml

NYSDOH LAB ID NO. 11246

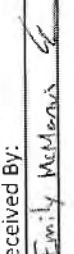
APPROVED BY:


(Terms and Conditions on Reverse Side)

Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample received by the Laboratory.

M5528

		Subcontract Chain of Custody Certified Environmental Services 7280 Caswell Street North Syracuse, NY 13210		Pace Job Number L2568873				
Client Information Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com		Project Information Project Location: NY Project Manager: Melissa Deyo Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables (Level 4)		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria: Report to MDL				
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2568873 Report to include Method and/or Regulatory required batch QC								
Additional Comments:								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2568873-01	8142-SSR-RAW 96884	10-30-25 12:10	WATER	E. Coli			0
Relinquished By: 			Date/Time: 10/30/25 1450		Received By: Emily McManis 		Date/Time: 10/30/25 1450	
Form No: AL_subcoc								



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: Pace

Batch Number: <u>M5528</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Sample Received on Ice: (Not required for Bact)	☒	☐	_____
8. Preservation OK: (Microbiology See Below)	☐	☐	_____
9. Preservation Not Applicable:(ie: Solid/Sludge, Alk,BOD,TSS,TS,Cl,Fl,SO ₄ ,pH,Cond, etc):	☒		_____
10. CES Sample Container(s): If not sure ask client	☐	☒	_____

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC HNO₃ MT NaOH WCSP Ascorbic Acid WC

HCl WCSP Na₂S₂O₃ WC Other _____ Not Available ☐

Microbiology: ☒ Chlorinated Source (Sodium Thiosulfate)

☐ Non-Chlorinated Source (No Sodium Thiosulfate)

Additional Comments/Client Correspondence _____

Sample(s) Received By: EM Sample(s) Logged In By: RD Login Reviewed By: B4D

DOCUMENT ID: SRCL072522

Approved by: RRB

Date Put In Place: 11/28/23

CERTIFIED ENVIRONMENTAL SERVICES, INC.

TERMS AND CONDITIONS

1. Services completed by Certified Environmental Services, Inc. are done so in general accordance with the environmental services and/or analytical industries recognized methods.
2. Certified Environmental Services, Inc. does not assume any other liabilities other than re-performance of the work if the completed services are determined to be deficient due to the negligence of Certified Environmental Services, Inc. Under no circumstances shall Certified Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
3. Any claim made must be done in writing within thirty (30) days of Certified Environmental Services, Inc.'s written report.
4. Certified Environmental Services, Inc. will not accept any liability in whole or in part as a result of data interpretation by the client.
5. All reports are submitted in writing to our customers only. Certified Environmental Services, Inc. will not be responsible for the accuracy of the contents of any report obtained by anyone other than our Client.
6. Invoices for services rendered are generated periodically as the work is completed. All invoices are due within thirty (30) days of the invoice date. Any discrepancy with an invoice must be reported to the accounts receivable department within fifteen (15) days of the invoice date. All balances over thirty (30) days will be subject to a 1-1/2% finance charge.
7. The terms and conditions set forth herein shall not be altered in any way unless done so in writing and signed by a Manager of Certified Environmental Services, Inc.

Qualifiers (Updated 09.12.2018):

ND-Not Detected at reporting limit	NR-Not Reported	NA-Not Available
H-Regulatory hold time exceeded	R-Duplication outside in-house acceptance limits	
B-Analyte detected in Method Blank	A-Preservation incomplete. Additional acid added to sample prior to analysis.	
DO-Spike Diluted Out	E-Estimate	MDL-Method Detection Limit
S-Spike recovery outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
L-Laboratory Control Sample outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
#- NYS ELAP does not offer accreditation for this parameter.		
**For Solid Waste analysis where there is no approved method, this is a laboratory developed method.		
F - Filtration not performed within 15 minutes of sample collection as required by cited method.		
E - Total Suspended Solids, Estimate. Residue on filter below method requirement of 2.5 mg.		
E - Biochemical Oxygen Demand, Estimate. Depletion less than 2.0 as required by cited method.		
X- Exceeds maximum contamination limit.		



Annual Quarry Report

2025

Table of Contents

A. Quarry Commission- formerly the Quarry Monitoring Committee (QMC)

- 2025 Quarry Commission Meeting Minutes 09.08.2025
- 2026 Quarry Commission Meeting Minutes 01.21.26
- Quarry Commission By-Laws

B. Complaints

- 2025 Blasts Complaints

C. Blast Reports

- 2025 Blast Summary Table
- Email from Ethan Huff, Vibra-Tech Engineers, Inc.
- Blast Report 10.08.2025
 - ◆ Shot 1
 - ◆ Shot 2
- Blast Report 10.30.2025
 - ◆ Shot 3
 - ◆ Shot 4

D. Air Quality Report

- Air Quality Monitoring 09.05.2025-12.26.2025

E. Water Report (Wells)

- Water Well Survey Report - 8117 Salt Springs Road
- Water Well Survey Report - 8142 Salt Springs Road
- Water Well Survey Report - 8171 Salt Springs Road

F. Noise Readings

G. Crusher Reports

- Fayetteville QMC Production - 2025

H. Dust Control Plan

I. Air Blast Control Plan

J. Berms & Reclamation Activities

K. Performance Bonds

- 2025 Letter of Credit

Section A

**Quarry Commission
Formerly
Quarry Monitoring Committee**

The Quarry Monitoring Committee (QMC) was established with the following members:

Town of Manlius EMC Barbara Rivette, Chairperson

T.H. Kinsella, Inc. Tom Kinsella

Neighboring community Bruno Puetzer, Jr.

At the November 14, 2016 meeting the Town of Manlius Board recommended we adjourn the Quarry Monitoring Committee sine die. We will meet on an as needed basis going forward.

It was also recommended for T.H. Kinsella Inc. to continue to submit annual quarry reports as in the past.

On April 24, 2024, the Town of Manlius Board created The Quarry Commission consisting of:

1. John Deer, Chairperson/Member
2. Craig Dudczak, Member Representing Changing Seasons Neighborhood
3. Tom Kinsella, Member Representing Kinsella Quarries
4. Harris Beach PLLC, Legal Council

On October 21, 2024 the commission met for the first time. During that meeting, an additional member Gerald Gould, was added by the town board as a citizen volunteer. The commission determined that we would meet 3 times in 2025:

1. May 27, 2025
2. August 26, 2025
3. December 2, 2025

The Quarry Commission met on September 8, 2025 and January 21, 2026. Minutes from the meetings are included below. It should be noted that at the January 21, 2026 meeting, Mike Nesci was appointed chair of the Quarry Commission.

In addition, By-Laws for the Quarry Commission are included below.



Town of Manlius

Quarry Commission
Monday, September 8, 2025
3:00 PM

In Attendance: Craig Dudczak, Supervisor John Deer, Ethan Huff (Vibratech), Tom Kinsella, Gerry Gould, John Cayanne, Duffy Hartnett.

- 3:04 pm call to order.
- John Deer: Confirmation of next scheduled meeting - 12/2/25 We will throw out an invite and if we need to reschedule if necessary. Duffy, my assistant taking minutes and in the future we can keep minutes on the town website on the quarry commission page when we get the new website.
- Vibratech - Ethan Huff on the Remote Seismograph:
 - Seismograph installed at changing seasons that the neighbors chose in which it would not be an eyesore. Tom met to make sure the monitor was in the proper area and all parties involved agreed it was in the right location.
 - It starts monitoring in the morning and goes all day and captures all sound by vibration in a dynamic waveform above a minimum standard, anyone can then see the readings relative to the DEC permitted limits. We discussed how that would be disseminated. Trying to filter out things like wind or other natural phenomena. Have someone ready to send out emails with this information as needed.
 - We check on a regular basis that the unit is operational. Using a neighbor's exterior AC outlet. Not worried about power outage unless something serious goes wrong and we will know if it does. We have technicians who will calibrate them once a year by swapping out the unit for a fully calibrated unit.
 - The plan is to discuss the specific results at the quarry commission meetings.
 - JD - how often do false readings come in?
 - EH - not often! Sometimes with automated you get alerts on windy days.
 - CD - we have had periodic reports of blasts that were not emanating from Kinsella but Jamesville - will it record those blasts?
 - EH - It would be highly unlikely, if it was then it would have to be a day of low cloud cover, but it would be unlikely to trigger the seismograph. We will have the record that the unit was monitoring at that point.
 - GG - if we had a report from someone that they heard something we could check the record and confirm that?
 - EH - yes, if you look at the wave forms it will measure ground motion in three directions and aero pressure. A blast has a distinct figure print that we can capture. Earthquakes, wind, lightning strikes are all distinct.
 - JD - right so maybe doing it through notifications, we can get a nice report if we clip the time period.
 - TK - Notifications and the website would be nice, my question would be if we blast - usually late morning - when would we be able to post the report on that blast.

John Deer, Supervisor

Town Board – Sara Bollinger, Ingrid Gonzalez-McCurdy, Alissa Italiano, Katelyn Kriesel, Michael Nesci, William Nicholson

- EH - if we set up the automated alerts - right away or within minutes.
 - TK - what info do they get?
 - EH - there is a summary that says the time, locations, the wave form peaks for ground direction and aero pressure.
 - TK - and if it wasn't on automatic?
 - EH - if it wasn't automatic it would just be our office person sending out an email a PDF.
 - CD - I want something that is understandable to the average person. Make the data make sense to them.
 - TK - the graph would show that..
 - EH - yes there is a graph on the wav form that show the limits of what is reasonable and the levels, we could send an email explaining it.
 - JD - maybe we should have the automated emails go to a town email address, and we could decide whether it should go out as public info. This way if someone reports a blast we can say, we didn't see anything etc. The planning department would also be able to say there was a blast/no blast. That would be the best of both worlds. Ethan we will send over an email to have it go to and the people on this commission could get alerts.
 - CD - I am thinking more globally, do other people outside changing seasons have the right to get this info?
 - TK - So Ethan we will be checking in with you. Sounds good to me.
 - GG - so that report would remain posted publicly?
 - TK - yes we will keep a historic report.
 - JD - right when blasting occurs we will post it on the report and we can put out that if you feel a blast or have a concern we give the town number and info @ email.
 - EH - I wouldn't necessarily encourage a complaint form if they felt it because the DEC limit is not for if they felt it, but if it made a significant shock to wood frame structure.
 - JD - we are going to tie complaints to blast timeline data tied to the seismograph so we can have a feedback loop to educate people.
 - TK - in the past we have had a quarry monitoring committee and there was a comment form that was actually pretty positive.
 - GG - it might be useful to have a note section explaining the DEC limits and why they are the way they are.
 - CD - Just want to thank Ethan for his good work, our neighbors were very complimentary of Ethan and his professionalism.
 - EH - Thank you!
- Quarry Complaint form and how they can consolidate it into the system. This form will live on the site here.
- JD - the digital form will be here on the site and there will also be a PDF that can be printed and filled out in ink. They will all come through the town those will be distributed prior to the next meeting, we will pair the complaints with the monitor reports. We put these meetings in different parts of the year so if there is a blast that is happening within 2 weeks of the meeting, we will track that. This will complete a packet of complaints and monitoring.
 - CD - the form that John has is the original proposed format, and the online form had weather related forms that are not on here, so I asked if that could be added.
 - GG - I liked the way with weather we had check boxes, could we have that check box with damage types (dish rattling, house shaking etc)
 - JD - I will put in a scale.
 - TK - Complaint form will live on our site.
 - CD - is there anyway we can do town notifications, if people know in advance the blast is coming it would be mitigate people might not call in to complain.

John Deer, Supervisor

Town Board – Sara Bollinger, Ingrid Gonzalez-McCurdy, Alissa Italiano, Katelyn Kriesel, Michael Nesci, William Nicholson

- TK - for salt springs road we don't get much from there, You Craig can get people on the list as necessary.
- JD - maybe for the rest of the season when Tom gets the notifications from Ethan we will put something on the website and when you go to the complaint form you will see that there was a scheduled blast or not before the fill it.
- TK - we can reach out to more folks beyond changing seasons.
- GG - does the Jamesville quarry do seismograph readings?
- TK - Yes.
- JD - we will get the complaint form and the page ready. By Thursday next week I will get the webpage and complaint form ready and we can move from there. If it comes in we will collate them together and make a packet and it will be available with an agenda.
- TK - if they come in by email, we will have automatic responses that it has been received. We can tie that to the website report.
- JD - after we release the packet you - Tom - can update us on action that has been taken.
- JD - the goal is to collate the seismograph reports and make them FOIL able as well as the complaints. Anything that isn't filling out the form like a communication will be translated into a complaint form.

AIR QUALITY MONITORING

- CD - we have 8 monitors in the Syracuse area - the one on green lakes it runs a little higher but not an anomaly, the Canadian wildfires made a difference, but it seems like it was higher than in previous wildfire years.

- TK - right it is fairly consistent across the region, we haven't been crushing there has been truck traffic.
- JD - and we can know and cross check it when you blast etc.
- TK - mostly what is amazing is how much the wildfires affected it.
- CD - fairly consistent across locations.
- CD - I would like this monitoring across quarterly time periods.
- JD - right and we can baseline this and check it on blast days.

-TK - Well Survey Data

- We did the base form for the wells, will be taking place in the next few weeks.
- JD - once those are installed we will get reports?
- TK - we will mostly get baselines instead of continuous reports.
- JD - We will have those for the December meeting?
- TK - Yes.
- JD - for the 10/2 Meeting you can present that to the commission and I can present it to the board.
- GG - how did we decide where to sample.
- JD - we did it with your engineers, Tom's engineers and our legal team.
- JD - Next Meeting 10/2 at 3pm, we will have the minutes formatted and the form.

ADJOURNED - 3:54 PM

John Deer, Supervisor

Town Board – Sara Bollinger, Ingrid Gonzalez-McCurdy, Alissa Italiano, Katelyn Kriesel, Michael Nesci, William Nicholson

301 Brooklea Drive
Fayetteville, NY 13066
Phone 315-637-3414
Fax 315-637-0713



Chairperson:
Mike Nesci

Members:
Craig Dudczak
Tom Kinsella
Gerald Gould
John Cayanne

**Minutes
Quarry Commission Meeting
January 21, 2026
2:00 PM**

The Town of Manlius Quarry Commission held a hybrid meeting with in-person attendees and virtual attendees.

The Following Commission Members were present.

**Mike Nesci
Craig Dudczak
Tom Kinsella
Gerald Gould
John Cayanne**

In-Person Attendees: John Deer, Town Supervisor. Carrie Grevelding, Town Clerk

Virtual Attendees: None

Welcome

Members of the commission introduced themselves.

Approval Of Minutes

September 8, 2025

Mr. Kinsella noted that the previous meeting minutes incorrectly recorded that seismograph readings were not being conducted. He clarified that the readings are currently being performed.

Mr. Dudczak made a motion, seconded by Mr. Cayanne to approve the minutes from September 8, 2025 with the correction that seismograph readings are being performed.

Ayes: Mr. Dudczak, Mr. Kinsella, Mr. Gould, Mr. Cayanne

Nayes: None

Abstained: Councilor Nesci

Results: Passed

Old Business

By-Laws Update: Councilor Nesci reported that the proposed by-laws were sent to the attorney for review. The attorney had no additional suggestions but noted the reference to quarterly meetings while only three meetings were listed. Mr. Kinsella provided historical context, explaining that although meetings were intended to be quarterly, there is typically limited activity in April due to winter conditions. Councilor Nesci suggested keeping the three meetings as listed and adding language allowing for additional meetings as needed. Clerk Grevelding will update the By-Laws to reflect quarterly meetings, with each meeting date to be set at the prior meeting.

Mr. Dudczak made a motion, seconded by Councilor Nesci to approve the By-laws with suggested amendments and subject to attorney review.

Ayes: Councilor Nesci, Mr. Dudczak, Mr. Kinsella, Mr. Gould, Mr. Cayanne

Nayes: None

Abstained: None

Results: Passed

1. Update on Kinsella Blasting Notifications

Mr. Kinsella reported that he has a notification form available on his website where individuals can sign up to be placed on a call, text, and email notification list. He noted that notifications cannot be scheduled more than a few days in advance and may need to be canceled or adjusted due to changing circumstances. Mr. Kinsella inquired who should be notified when blasting will occur at Town Hall. It was decided to add Duffy to the notification list, and Councilor Nesci will work with him on the social media notifications.

2. Town Complaint Form

The complaint forms are available on the Town website. Mr. Kinsella stated that when his staff receives complaints directly, they are entering them into the Town's online complaint form system. Mr. Dudczak stated that some complaints originate from his neighborhood. There was a discussion regarding confusion between blasts from the Jamesville Quarry and the Kinsella Quarry. Mr. Cayanne suggested posting information on the Town website regarding the Jamesville Quarry. Supervisor Deer will have Duffy check with the Jamesville Quarry to determine if they have information available on their blasting schedule.

3. Public Notifications
Notifications of meetings
Agenda

With the implementation of the new meetings and minutes software program, Clerk Greveling will be able to post agendas, minutes, and meeting recordings on the Town website. Residents will also be able to sign up for notifications regarding meetings and posted materials.

New Business

1. Vibra-Tech vibration readings – Town should be getting these emails.
2 blasts on 10/8/2025
2 blasts on 10/30/2025

Mr. Kinsella reviewed the seismic monitoring information and provided details on the reports. Mr. Kinsella will provide a summary of the seismic results for inclusion in the year-end report.

2. Review Blast Complaints
3 Complaints from 10/05/2025
3 Complaints from 10/30/2025

Mr. Kinsella reviewed the complaints received and discussed common comments and concerns. Mr. Dudczak identified the areas from which the complaints are originating. Mr. Kinsella showed the members the locations where the blasts occurred in relation to the complaints.

Clerk Greveling left meeting 3:00 PM.

3. Determine Response to Complaints

The Town will close the loop by emailing or texting the minutes to any complainants and calling any others as needed. The Town will handle the Post-Quarry Commission Review responses to all complainants.

4. Purple Air Monitor

Mr. Kinsella reviewed the air Monitor Results, best readings in days following the blasts. The aggregate data is giving solid baseline for comparisons.

Mr. Gould and Mr. Cayanne left meeting at 3:40 PM

5. Well Survey Reports

Tabled for future meeting.

6. Annual Reporting

Councilor Nesci inquired about records management and the uploading of end-of-year reports. Clerk Greveling advised that the annual reports are posted on the Town

website and are also maintained digitally for records management purposes.

Tabled for future meeting.

Mr. Dudczak made a motion, seconded by Mr. Kinsella to table the Well Survey Reports and Annual Reporting for a future meeting.

Ayes: Councilor Nesci, Mr. Dudczak, Mr. Kinsella

Nayes: None

Abstained: None

Results: Passed

7. Next Meeting

An email will be sent to schedule the next meeting.

Adjournment

Mr. Dudzak made a motion, seconded by Mr. Kinsella to adjourn meeting at 3:43 PM.

Ayes: Councilor Nesci, Mr. Dudczak, Mr. Kinsella

Nayes: None

Abstained: None

Results: Passed

Respectfully Submitted by:

Carrie Grevelding
Town Clerk



Town of Manlius

Quarry Commission Bylaws

Adopted – January 21, 2026

Preamble

These bylaws are instituted to define the authority and responsibilities of the Town of Manlius Quarry Commission.

1. Purpose

The Quarry Commission is instituted to provide oversight of quarrying operations in the Town of Manlius. It shall collect and monitor citizen complaints, respond to citizen inquiries, monitor and collect data on air quality and seismic vibrations associated with quarrying activities, and make periodic reports to the Manlius Town Board.

2. Composition

The Quarry Commission shall consist of the following five (5) voting members:

- Town of Manlius Supervisor or designated Town Board Member, serving as Chairperson.
- Representative from T.H. Kinsella, Inc.
- Representative from Changing Seasons Homeowners Association.
- Two additional residents from the Town of Manlius who are not affiliated with the above constituencies.

3. Ex Officio Members (Non-Voting)

- Onondaga County designee
- Vibra-Tech representative
- Manlius Town Counsel
- Administrative Staff

4. Meetings

The Quarry Commission shall meet quarterly during quarry operations:

- Regular meetings shall be conducted on a quarterly basis, with the date and time established at the prior meeting.
- Meetings may be called by any two representatives through a request to the Town Supervisor.
- A quorum of three (3) voting members is required to conduct business.
- A majority of voting members present is required to pass any recommendation or resolution.

John Deer, Supervisor

Town Board – Sara Bollinger, Ingrid Gonzalez-McCurdy, Alissa Italiano, Katelyn Kriesel, Michael Nesci, William Nicholson

5. Data Collection

The Commission shall adopt procedures for residents to report complaints or provide comments regarding quarry operations in the Town of Manlius.

- A website link administered by the Town of Manlius shall connect residents to the Quarry Monitoring Complaint Form.
- The Complaint Form shall also be available through:

Manlius Town Clerk's Office

T.H. Kinsella, Inc.

Changing Seasons Homeowners Association

6. Reporting

The Quarry Commission shall make an annual report to the Manlius Town Board at the first regularly scheduled Town Board meeting in January or at another time designated by the Town Board. The report shall include:

- A summary of all complaints received during the preceding calendar year.
- A summary of data received from air quality monitors.
- A summary of data from seismic vibration monitoring.
- Recommendations to the Town Board regarding quarry operations.

Supplemental oral or written reports shall be provided to the Town Board as events warrant or at the request of the Town Board.

John Deer, Supervisor

Town Board – Sara Bollinger, Ingrid Gonzalez-McCurdy, Alissa Italiano, Katelyn Kriesel, Michael Nesci, William Nicholson

Section B

Complaints

ANALYSIS OF COMMENT AND COMPLAINT STATISTICS

In total, 6 comments and complaints were received in 2025.

Blasting:	6
Vibration only:	6
Noise only:	0
Vibration and noise:	0
Other blasting/unspecified:	0
Comment	0
Other complaints:	0

There were 4 blasts this year with 4 of those blasts getting a complaint.

<u>DATE</u>	<u>#BLASTS</u>	<u>#COMPLAINTS</u>	<u>#BLASTS RECVG</u>	<u>#COMPLAINANTS</u>
			<u>COMPLAINTS</u>	
10/8/2025	2	3	2	2
10/30/2025	2	3	2	2

- These six complaints were logged on the Town of Manlius website by the Kinsella staff after they were called in. Any other complaints were logged on the Town of Manlius website directly.

[Print](#)**Quarry Monitoring Commission Complaint Report Form - Submission #3021****Date Submitted: 10/17/2025****First Name***

SPENCER

Last Name*

BROWN

Address*

8043 CHANGING SEASONS CIR

City

FAYETTEVILLE

State

NY

Zip Code

13066

Phone Number

717-329-0553

Email Address**Date and Time of Incident***

10/8/2025

02:30 PM

How would you like to be contacted with any follow-up?

*

- ☒ Phone
- ☐ Text
- ☐ Email

Complaint regarding*

- | | |
|---|--|
| ☐ Noise from Blasting | ☒ Blast Vibrations |
| ☐ Noise from Trucks | ☐ Dust from Quarry operations |
| ☐ Noise from Crusher | ☐ Air Quality |
| ☐ Noise from Quarry operations | ☐ Other |

Was there damage?*

- ☐ Yes
- ☒ No

Describe the complaint or any damage*

(This report is being submitted by Aaron Howard at T. H. Kinsella, Inc. concerning a phone call received from Spencer Brown by Tyler McCarthy at 2:27PM on 10/08/2025) "It shook our house quite solidly when you blasted." (Question regarding damage was answered as no by me.)

[Print](#)**Quarry Monitoring Commission Complaint Report Form - Submission #3020****Date Submitted: 10/17/2025****First Name***

DAVID

Last Name*

HOLDER

Address*

8035 CHANGING SEASONS CIRCLE

City

FAYETTEVILLE

State

NY

Zip Code

13066

Phone Number

3155698908

Email Address

holderfamily@twcny.rr.com

Date and Time of Incident*

10/8/2025

02:45 PM

How would you like to be contacted with any follow-up?

*

- ☐ Phone
- ☐ Text
- ☒ Email

Complaint regarding*

- | | |
|---|--|
| ☐ Noise from Blasting | ☒ Blast Vibrations |
| ☐ Noise from Trucks | ☐ Dust from Quarry operations |
| ☐ Noise from Crusher | ☐ Air Quality |
| ☐ Noise from Quarry operations | ☐ Other |

Was there damage?*

- ☐ Yes
- ☒ No

Describe the complaint or any damage*

(This report is being submitted by Aaron Howard at T. H. Kinsella, Inc. concerning a phone call received from David Holder by Jack Kinsella at 2:40PM on 10/08/2025) "Called to say he felt both blasts and felt he should report it." Question regarding damage was entered as "No" by me.

[Print](#)**Quarry Monitoring Commission Complaint Report Form - Submission #3022****Date Submitted: 10/17/2025****First Name***

SPENCER

Last Name*

BROWN

Address*

8043 CHANGING SEASONS CIR

City

FAYETTEVILLE

State

NY

Zip Code

13066

Phone Number

717-329-0553

Email Address**Date and Time of Incident***

10/8/2025

02:45 PM

How would you like to be contacted with any follow-up?

*

- ☒ Phone
- ☐ Text
- ☐ Email

Complaint regarding*

- | | |
|---|--|
| ☐ Noise from Blasting | ☒ Blast Vibrations |
| ☐ Noise from Trucks | ☐ Dust from Quarry operations |
| ☐ Noise from Crusher | ☐ Air Quality |
| ☐ Noise from Quarry operations | ☐ Other |

Was there damage?*

- ☐ Yes
- ☒ No

Describe the complaint or any damage*

(This report is being submitted by Aaron Howard at T. H. Kinsella, Inc. concerning a phone call received from Spencer Brown by Jeff Kinsella at 2:44PM on 10/08/2025) "I'm calling about the reverb." (Question regarding damage was answered as no by me.)

[Print](#)**Quarry Monitoring Commission Complaint Report Form - Submission #3041****Date Submitted: 10/31/2025****First Name***

Michael

Last Name*

Militi

Address*

5433 Springview Drive

City

Fayetteville

State

NY

Zip Code

13066

Phone Number

315-748-8985

Email Address

Marabesk@gmail.com

Date and Time of Incident*

10/30/2025

12:45 PM

How would you like to be contacted with any follow-up?

*

- ☐ Phone
- ☐ Text
- ☒ Email

Complaint regarding*

- | | |
|---|--|
| ☐ Noise from Blasting | ☒ Blast Vibrations |
| ☐ Noise from Trucks | ☐ Dust from Quarry operations |
| ☐ Noise from Crusher | ☐ Air Quality |
| ☐ Noise from Quarry operations | ☐ Other |

Was there damage?*

- ☐ Yes
- ☒ No

Describe the complaint or any damage*

Blast shook our home.

[Print](#)**Quarry Monitoring Commission Complaint Report Form - Submission #3038****Date Submitted: 10/30/2025****First Name***

MAUREEN

Last Name*

PUETZER

Address*

8037 CHANGING SEASONS CIRCLE

City

FAYETTEVILLE

State

NY

Zip Code

13066

Phone Number

3156379694

Email Address**Date and Time of Incident***

10/30/2025

12:45 PM

How would you like to be contacted with any follow-up?

*

- ☒ Phone
- ☐ Text
- ☐ Email

Complaint regarding*

- | | |
|---|--|
| ☐ Noise from Blasting | ☒ Blast Vibrations |
| ☐ Noise from Trucks | ☐ Dust from Quarry operations |
| ☐ Noise from Crusher | ☐ Air Quality |
| ☐ Noise from Quarry operations | ☐ Other |

Was there damage?*

- ☐ Yes
- ☒ No

Describe the complaint or any damage*

"THE ENTIRE HOUSE SHOOK WHEN YOU JUST BLASTED" REPORTED BY TYLER MCCARTHY BASED ON A PHONE CALL RECEIVED FROM COMPLAINANT

[Print](#)**Quarry Monitoring Commission Complaint Report Form - Submission #3039****Date Submitted: 10/30/2025****First Name***

MAUREEN

Last Name*

PUETZER

Address*

8037 CHANGING SEASONS CIRCLE

City

FAYETTEVILLE

State

NY

Zip Code

13066

Phone Number

315-637-9694

Email Address

bpuetzer@yahoo.com

Date and Time of Incident*

10/30/2025

01:00 PM

How would you like to be contacted with any follow-up?

*

- ☐ Phone
- ☐ Text
- ☒ Email

Complaint regarding*

- | | |
|---|--|
| ☐ Noise from Blasting | ☒ Blast Vibrations |
| ☐ Noise from Trucks | ☐ Dust from Quarry operations |
| ☐ Noise from Crusher | ☐ Air Quality |
| ☐ Noise from Quarry operations | ☐ Other |

Was there damage?*

- ☐ Yes
- ☒ No

Describe the complaint or any damage*

"YOU REALLY OUTDID YOURSELF ON THAT ONE, SHOOK THE ENTIRE HOUSE EVEN WORSE THAN THE 1ST ONE DID, IT'S NOT GOING TO GET ANY BETTER IS IT?" REPORTED BY TYLER MCCARTHY BASED ON PHONE CALL RECEIVED FROM COMPLAINANT

Section C

Blast Reports

Air Concussion and Ground Vibration:

1. Aerial maps and coordinates are used to plot the blast locations.
2. Seismograph data is recorded on the blast report.
3. There were a total of 4 blasts in 2025.

The resolution creating the Town of Manlius Quarry Commission includes the Town applying for a grant from Onondaga County to fund a vibration monitoring contract that will independently monitor blasting and analyze the results. This contract is in place, and we anticipate starting to monitor sometime in 2025.

[illegible]

DNT= DID NOT TRIGGER

From: Ethan Huff <ethanh@vibratechinc.com>
Sent: Wednesday, January 28, 2026 11:13 AM
To: Craig A Dudczak <cadudcza@syr.edu>; John Deer <jdeer@townofmanlius.org>; Duffy Hartnett <dhartnett@townofmanlius.org>; Tom Kinsella <TKinsella@thkinsella.com>
Subject: Kinsella Quarry – Summary of Blasting Monitoring Data

Hello All,

I hope everyone is making it through the winter well. Tom reached out to me the other day and mentioned that he met with the town and some quarry neighbors to discuss the four blasts that took place this year. He asked if I could provide a summary of our vibration and air overpressure monitoring results.

In addition to the summary below, I have attached a graphic overview of the monitoring results compared to the NYDEC regulatory limits, along with the seismic waveforms recorded for each blast.

The highest ground vibration recorded from the four blasts conducted this year was 0.145 in/sec, resulting from Blast #2 on October 30. The corresponding frequency was 3.4 Hz. This level represents approximately 29% of the NYDEC regulatory limit of 0.5 in/sec at this frequency. It should be noted that this regulatory limit is based on the U.S. Bureau of Mines (USBM) recommended criteria for the protection of wood-frame residential structures with plaster-on-lath interior finishes. This vibration level corresponds to approximately 19% of the USBM recommended ground vibration limit for the protection of homes with modern drywall finishes.

The highest air overpressure recorded was 117.2 dB(L), resulting from Blast #1 on October 8. This level represents approximately 16% of the NYDEC regulatory limit.

While both the ground vibration and air overpressure levels were within the applicable regulatory limits, providing a significant margin of compliance, these vibration levels are perceptible to the surrounding community. Local geologic conditions contribute to increased low-frequency energy, which can produce a greater response in typical residential structures and make blasting events more noticeable. However, the measured ground vibration amplitudes remained below levels commonly used for the protection of fragile and historic structures.

Please don't hesitate to contact me if you have any questions. Stay safe and keep warm!

Best regards,

Ethan

--

Ethan Huff
Northeast Regional Manager
570-455-5861 **Office Phone**
570-233-6256 **Cell Phone**

 **Vibra-Tech Engineers, Inc.**
235 East Maple St.
Hazleton, PA 18201
www.vibratechinc.com

Shot # 1 Shot Time (24hrs) 14:25 Shot VideoTaped: y**Weather****Notes:**

Drilled by Tim Deline Quarry Drilling
Limited to 300lbs per delay by permit when blasting on this bench.
Used stick product and air decking to load through seams.
Used 1 extra primer when stick loading.
Blast results were normal.

Weather Conditions: RainTemp (°F): 47-63Wind Direction: North-WestWind Spd: 1-12 MPH**Preblast**Blast Direction: EastMax Holes/Delay: 1Predicted K Factor: 160Blast Location: 43° 1'42.23"N 75°57'59.33"WSlope: -1.6 Scale Dist.: 60.91Location of Structure: Changing SeasonsPredicted Max Weigh/Delay: 300 LbsPredicted PPV: 0.22Measurement Google Map Dist. to Closest (Ft) 1055 Structure 1055 Railroad/Highway 1275 Overhead Util 1258 Underground Util 1130**Pay Quantities****Pay Calculations Notes**Fire Detail # of Hrs: N/APay Cubic Volume 7522.67 YardPay Weight 17001.23 TonsN/A N/A N/A

12 x 14 x 31 / 27 x 39 = 7,522.67 cy
7,522.67 x 2.26 = 17,001.23 ton

Tim Deline Drilling:
39 x 31 = 1209 DF

Shot Info**Configuration****1 - Quarry**

Total Drill Depth(Ft)	<u>1209.00</u>	Total SqFt	<u>6552.00</u>	Avg Powder	<u>1.41</u> Lbs/Cyd	Total Product Weight (Lbs) :	<u>10632</u>
Total Tons	<u>17001.23</u>	Total Yards	<u>7522.67</u>	Factor	<u>0.71</u> Cyd/Lbs	Avg Weight / Hole (Lbs):	<u>272.62</u>

Cal Method Pattern# Holes 39# Loaded Holes 39Cover Used/No N/A

	AVG	Min	Max										
Drill Depth	<u>31</u>	<u>31</u>	<u>31</u>	Stone Weight	<u>2.26</u> /Cyd	Top Stemming	<u>11</u> Min	<u>15</u> Max					
Burden(Feet)	<u>12</u> Feet	<u>12</u>	<u>12</u>	Type of Terrain	<u>Flat</u>	Charges/Hole	<u>1</u> Min	<u>1</u> Max					
Spacing (Feet)	<u>14</u> Feet	<u>14</u>	<u>14</u>	Type of Rock	<u>Limestone</u>	Deck Stemming	<u>0</u> Min	<u>0</u> Max					
Hole Diameter	<u>5.5</u>	<u>5.5</u>	<u>5.5</u>	Stemming Type	<u>3/8" Crushed Stone</u>	Charge Wgt/Deck	<u>250</u> Min	<u>295</u> Max					
OverBurden (Ft)	<u>0.5</u>	<u>0</u>	<u>2</u>	Height of Face	<u>31</u>	Depth of Water	<u>0</u> Min	<u>0</u> Max					
Control Row Taped	<u>N</u>			Angled Holes /Face Bermed	<u>N/N</u>	Laser/BoreTracking	<u>N</u>						

Total Pounds 10631.82 LbsType Of Initiation: **Electronic**

Product #	Desc	Density	Wgt
QR743G	TITAN 1000 LD (G)	1.25	7916.00 Lbs
425	Bulk Powernel 2500 Emulsion	1.25	2359.00 Lbs
BA BULK Totals:		N/A	10275.00 Lbs

Product #	Desc	Qty	Wgt
HIL*213657775	Poweran 500 4" X 20	12	240.00 Lbs
BAPACKAGED Totals:		12	240.00 Lbs

Product #	Desc	Qty	Wgt
TR0450	TROJAN SHIELD "L" 450G 36/CS	40	39.60 Lbs
SP0900	TROJAN SPARTAN 2# 900G 18/CS	39	77.22 Lbs
BOOSTERS Totals:		79	116.82 Lbs

Product #	Desc	Qty	Length
DS44030B	DIGISHOT DETONATOR 30FT/9.1M 84/CS	40	
DS44050B	DIGISHOT DETONATOR 50FT/15.2 60/CS	39	
DETS DHOLE Totals:		79	

Product #	Desc	Qty	Length
R71000	SURFACE WIRE 1000FT SPOOL 2/CS	1	1000
LINES Totals:		1	

Description: Face

Elevation	Feet
Brench (ft)	31
Floor (ft)	0
Overburden (ft)	1
Sub Drilling(ft)	0
Total Depth (ft)	31.00

N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	12.64
Poweran 500 4" X 20	3
TROJAN SHIELD "L" 450G 36/CS	0.36
Bulk Powernel 2500 Emulsion	15
TROJAN SPARTAN 2# 900G 18/CS	0

Description: Body

Elevation	Feet
Brench (ft)	31
Floor (ft)	0
Overburden (ft)	0
Sub Drilling(ft)	0
Total Depth (ft)	31.00

N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	11
TITAN 1000 LD (G)	15
TROJAN SHIELD "L" 450G 36/CS	0
Poweran 500 4" X 20	3
TITAN 1000 LD (G)	2
TROJAN SPARTAN 2# 900G 18/CS	0

Seismographs**Actual Max Weight/Delay:295****Lbs**

Operator Name	Location of Seis	GPS Location	Seis #	Monitor Log Status	Actual PPV	Actual PPV Freq,	Actual db	Actual Dist. (ft)	Actual K Factor
D. Eastman	Changing Seasons	43° 1'52.52"N 75°57'58.95"W	11091	Triggered	0.163	3.6	119.8	1055	118

USBM/Velocity Waveform Analysis

Seismic Analysis

Job ID: j-GEO-17037
Serial Number: 12172
Event Number: 1
Event Time: 10/08/2025 14:24:09 (UTC -04:00)
Recording Time: 5.0 s
Product/Firmware: 0C-10.29
Client: Town of Manlius
Operation: 8037 Changing Seasons
Location: Front R corner of home
Distance:
Operator: Vibra-Tech Engineers
Comment:
Seismic Trigger: 0.03 in/s
Sound Trigger: 129.5 dB (8.61e-03 psi)
Additional Info: N43 1.9001, W75 58.0690

Summary Data

	L	T	V
PPV (in/s):	0.05	0.128	0.0275
FREQ (Hz):	3.4	3.5	4.3
TIME (s):	0.530	0.834	0.448
PD (.001"):	1.87	5.73	1.19
PPA (g):	0.0194	0.0194	0.0194

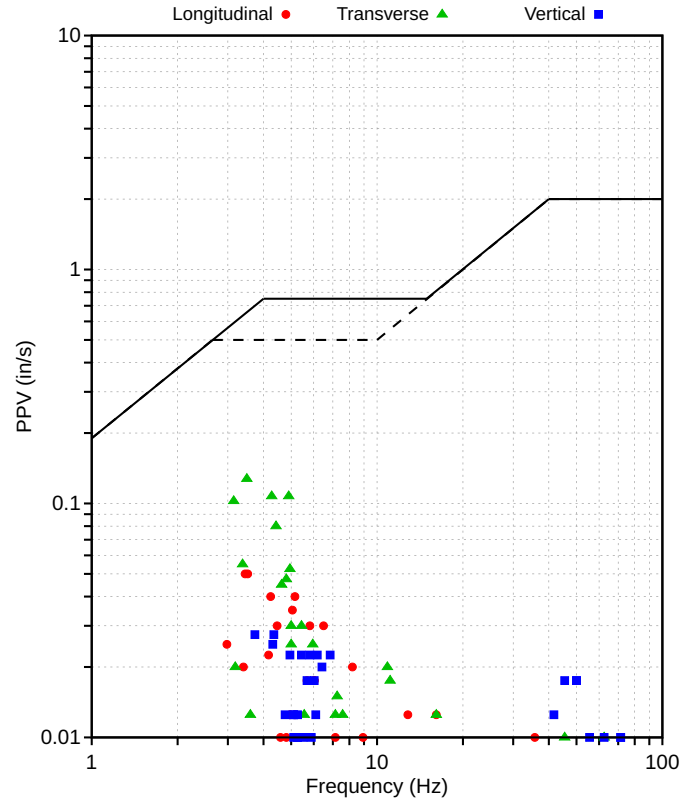
Peak Air Pressure: 117.2 dB (2.10e-03 psi) @ 2.6 Hz, 1.302 s

Shaketable Calibrated

On: 07/01/2025
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels

SSN: 12172 Event: 1

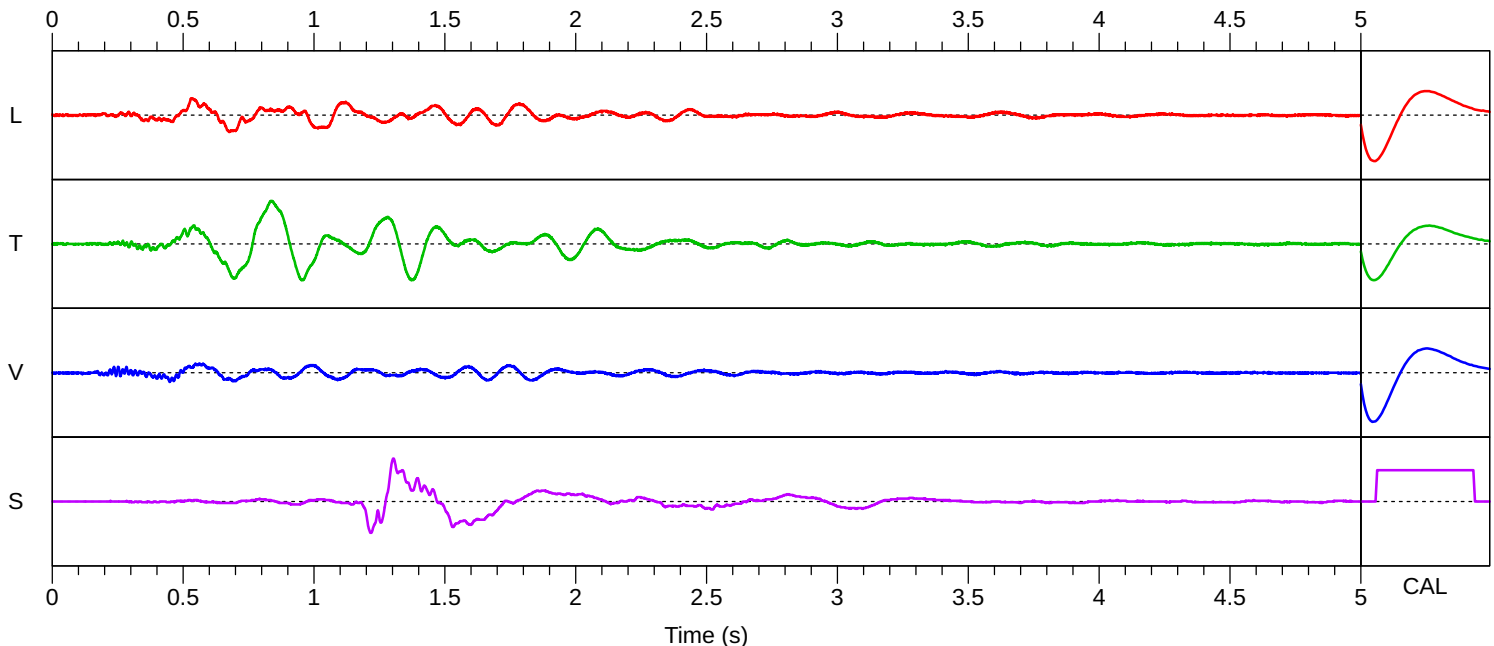


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.191 in/s
Sound Scale: +/- 0.00315 psi

Velocity Waveform

SSN: 12172 Event: 1



Shot # 2 Shot Time (24hrs) 14:45 Shot VideoTaped: N

Weather

Notes:

Drilled by Tim Deline Quarry Drilling.
Used stick product and air decks to load through seams.
1 hole was blocked at time of loading, unable to clear.
1 hole was filled in when laying out stemming stone.
Camera malfunctioned - unable to retrieve video.
Blast results were normal.

Weather Conditions: Clear

Temp (°F): 47-63

Wind Direction: North-West

Wind Spd: 1-12 MPH

Preblast

Blast Direction: North Max Holes/Delay: 1 Predicted K Factor: 160
Blast Location: 43° 1'50.04"N 75°57'47.97"W Slope: -1.6 Scale Dist.: 66.63
Location of Structure: Changing Seasons Predicted Max Weigh/Delay: 300 Lbs Predicted PPV: 0.19
Measurement Google Map Dist. to Closest (Ft) Structure 1154 Railroad/Highway 1715 Overhead Util 1453 Underground Util 1204

Pay Quantities

Pay Calculations Notes

Fire Detail # of Hrs: N/A
Pay Cubic Volume 5674.67 Yard
Pay Weight 12824.75 Tons
N/A N/A N/A

12 x 14 x 24 / 27 x 38 = 5,674.67 cy
5,674.67 x 2.26 = 12,824.75 ton

Tim Deline Drilling:
24 x 40 = 960 DF

Shot Info

Configuration

1 - Quarry

Total Drill Depth(Ft)	<u>960.00</u>	Total SqFt	<u>6720.00</u>	Avg Powder	<u>1.85</u> Lbs/Cyd	Total Product Weight (Lbs) :	<u>11048</u>
Total Tons	<u>13499.73</u>	Total Yards	<u>5973.33</u>	Factor	<u>0.54</u> Cyd/Lbs	Avg Weight / Hole (Lbs):	<u>290.74</u>

Cal Method	<u>Pattern</u>								
# Holes	<u>40</u>	# Loaded Holes	<u>38</u>	Cover Used/No	<u>N/A</u>				
	<u>AVG</u>		<u>Min</u> <u>Max</u>						
Drill Depth	<u>24</u>		<u>24</u> <u>24</u>	Stone Weight	<u>2.26</u> /Cyd	Top Stemming	<u>9</u> Min <u>12</u> Max		
Burden(Feet)	<u>12</u> Feet		<u>12</u> <u>12</u>	Type of Terrain	<u>Flat</u>	Charges/Hole	<u>1</u> Min <u>1</u> Max		
Spacing (Feet)	<u>14</u> Feet		<u>14</u> <u>14</u>	Type of Rock	<u>Limestone</u>	Deck Stemming	<u>0</u> Min <u>0</u> Max		
Hole Diameter	<u>5.5</u>		<u>5.5</u> <u>5.5</u>	Stemming Type	<u>3/8" Crushed Stone</u>	Charge Wgt/Deck	<u>160</u> Min <u>300</u> Max		
OverBurden (Ft)	<u>0.5</u>		<u>0</u> <u>2</u>	Height of Face	<u>24</u>	Depth of Water	<u>0</u> Min <u>0</u> Max		
Control Row Taped	<u>N</u>			Angled Holes /Face Bermed	<u>N/N</u>	Laser/BoreTracking	<u>N</u>		

Total Pounds 11047.86 Lbs

Type Of Initiation: Electronic

Product #	Desc	Density	Wgt
QR743G	TITAN 1000 LD (G)	1.25	10675.00 Lbs
BA BULK Totals:		N/A	10675.00 Lbs

Product #	Desc	Qty	Wgt
HIL*213657775	Poweran 500 4" X 20	13	260.00 Lbs
BAPACKAGED Totals:		13	260.00 Lbs

Product #	Desc	Qty	Wgt
TR0450	TROJAN SHIELD "L" 450G 36/CS	38	37.62 Lbs
SP0900	TROJAN SPARTAN 2# 900G 18/CS	38	75.24 Lbs
BOOSTERS Totals:		76	112.86 Lbs

Product #	Desc	Qty	Length
DS44030B	DIGISHOT DETONATOR 30FT/9.1M 84/CS	76	
DETS DHOLE Totals:		76	

Product #	Desc	Qty	Length
R71000	SURFACE WIRE 1000FT SPOOL 2/CS	1	1000
LINES Totals:		1	

Description: face			Description: body		
Elevation	Feet		Elevation	Feet	
Brench (ft)	24		Brench (ft)	24	
Floor (ft)	0		Floor (ft)	0	
Overburden (ft)	2		Overburden (ft)	0	
Sub Drilling(ft)	0		Sub Drilling(ft)	0	
Total Depth (ft)	24.00		Total Depth (ft)	24.00	
N/A			N/A		
N/A			N/A		
N/A			N/A		
N/A			N/A		
N/A			N/A		
N/A			N/A		
N/A			N/A		
Stemming Stones	10.64		Stemming Stones	9	
Poweran 500 4" X 20	3		TITAN 1000 LD (G)	5	
TROJAN SHIELD "L" 450G 36/CS	0.36		TROJAN SHIELD "L" 450G 36/CS	0	
TITAN 1000 LD (G)	10		TITAN 1000 LD (G)	10	
TROJAN SPARTAN 2# 900G 18/CS	0		TROJAN SPARTAN 2# 900G 18/CS	0	

Seismograhs

			Actual Max Weight/Delay:280		Lbs				
Operator Name	Location of Seis	GPS Location	Seis #	Monitor Log Status	Actual PPV	Actual PPV Freq,	Actual db	Actual Dist. (ft)	Actual K Factor
D. Eastman	Changing Seasons	43° 1'52.52"N 75°57'58.95"W	11091	Triggered	0.046	24.1	113.5	851	25

USBM/Velocity Waveform Analysis

Seismic Analysis

Job ID: j-GEO-17037
Serial Number: 12172
Event Number: 2
Event Time: 10/08/2025 14:43:24 (UTC -04:00)
Recording Time: 5.0 s
Product/Firmware: 0C-10.29
Client: Town of Manlius
Operation: 8037 Changing Seasons
Location: Front R corner of home
Distance:
Operator: Vibra-Tech Engineers
Comment:
Seismic Trigger: 0.03 in/s
Sound Trigger: 129.5 dB (8.61e-03 psi)
Additional Info: N43 1.9001, W75 58.0690

Summary Data

	L	T	V
PPV (in/s):	0.0325	0.04	0.03
FREQ (Hz):	3.2	8.3	16.7
TIME (s):	0.716	1.010	0.309
PD (.001"):	1.22	0.98	0.43
PPA (g):	0.013	0.0194	0.0194

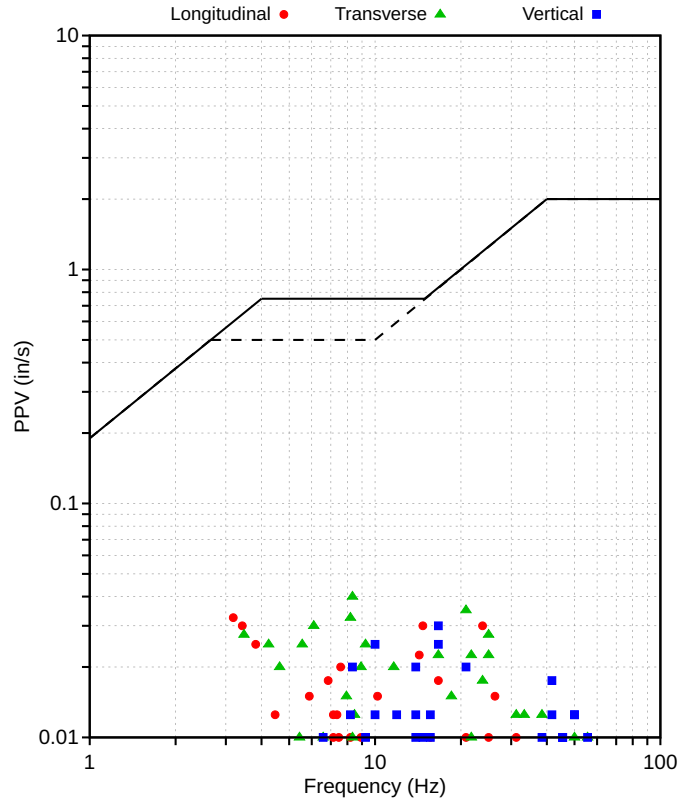
Peak Air Pressure: 109.0 dB (8.19e-04 psi) @ 4.9 Hz, 1.150 s

Shaketable Calibrated

On: 07/01/2025
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels

SSN: 12172 Event: 2

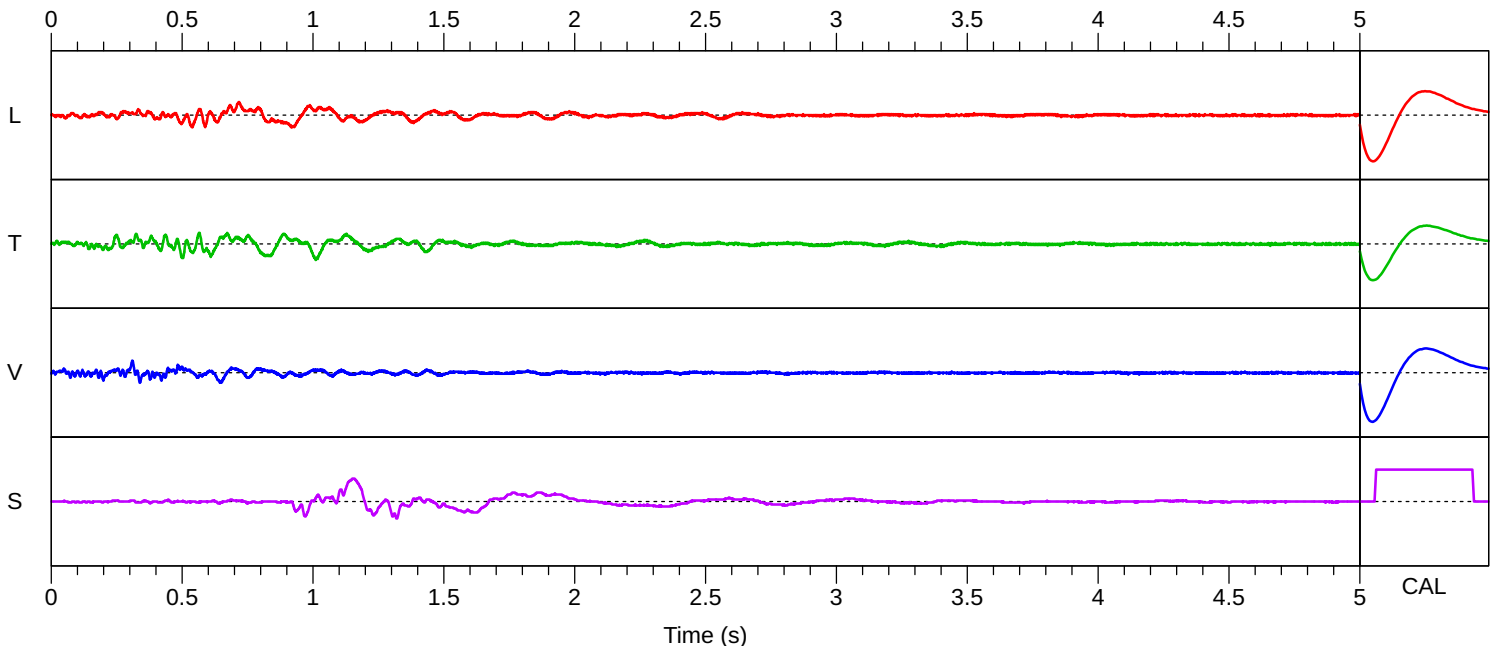


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.16 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 12172 Event: 2



Kinsella Quarry
Fayetteville, NY
300 174 2400
MDB

Changing Seasons
43° 1'52.52"N
75°57'58.95"W
11091



Record: 11091202510081425530139.proevt

Number: 139

Seismograph: Mini-Seis III Pro 11091

Type of Record: Waveform

Date: 10/8/2025 2:25:53 PM

Duration: 4.06 Seconds

Sample Rate: 16384

Pre-Trigger: 0.0625 Seconds

Seismic Trigger: 0.03 in/s

Acoustic Trigger: 115.2 dB

Seismic Gain: 10.24

Acoustic Gain: 148.2 dB

Voltage: 6.17

Peaks and Frequencies

PPV Maximum (Geo #1): 0.163 in/s

Acoustic #1: 119.8 dB @ 4.3 Hz (0.6091309 s)

Radial #1: 0.163 in/s @ 3.6 Hz (0.4430542 s)

Vertical #1: 0.0341 in/s @ 5.9 Hz (0.690918 s)

Transverse #1: 0.115 in/s @ 3.4 Hz (0.3322754 s)

Displacement (Geo #1): 0.00701 in

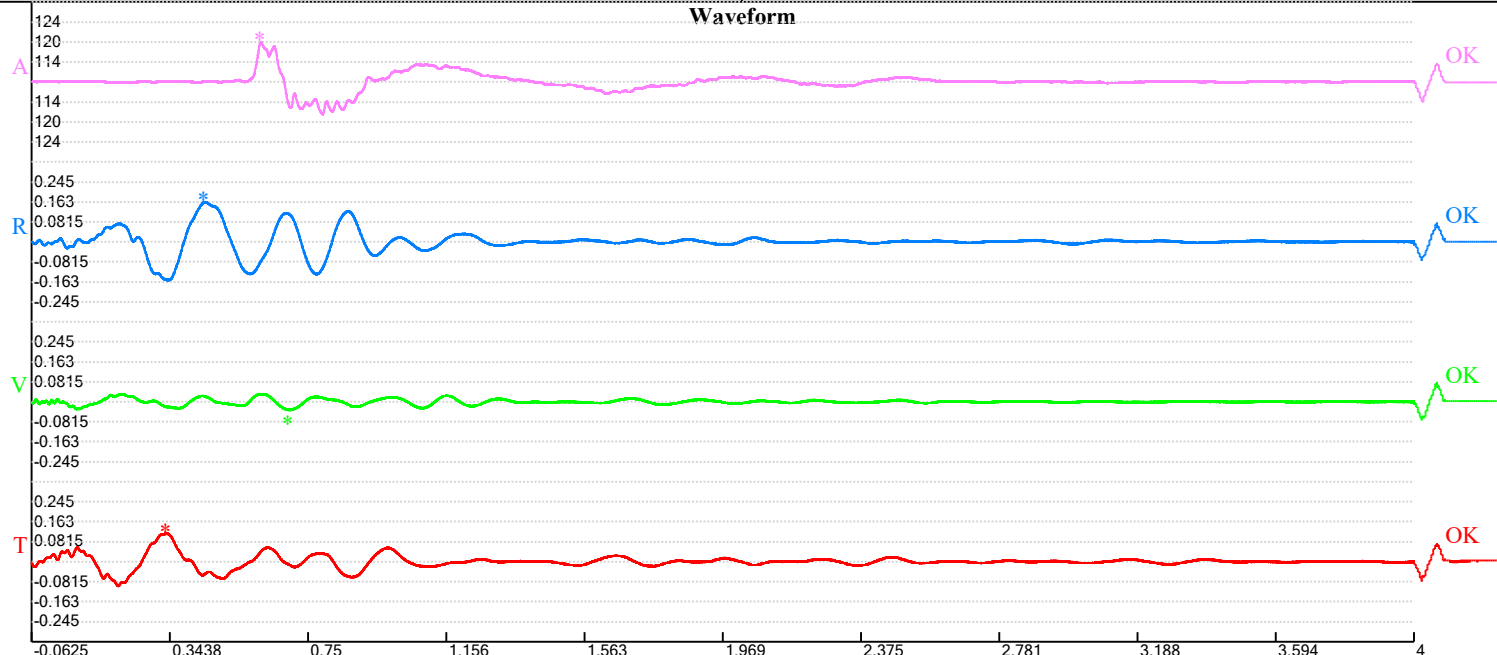
Acceleration (Geo #1): 0.0795 g's

Last Calibration Date: 2/13/2025

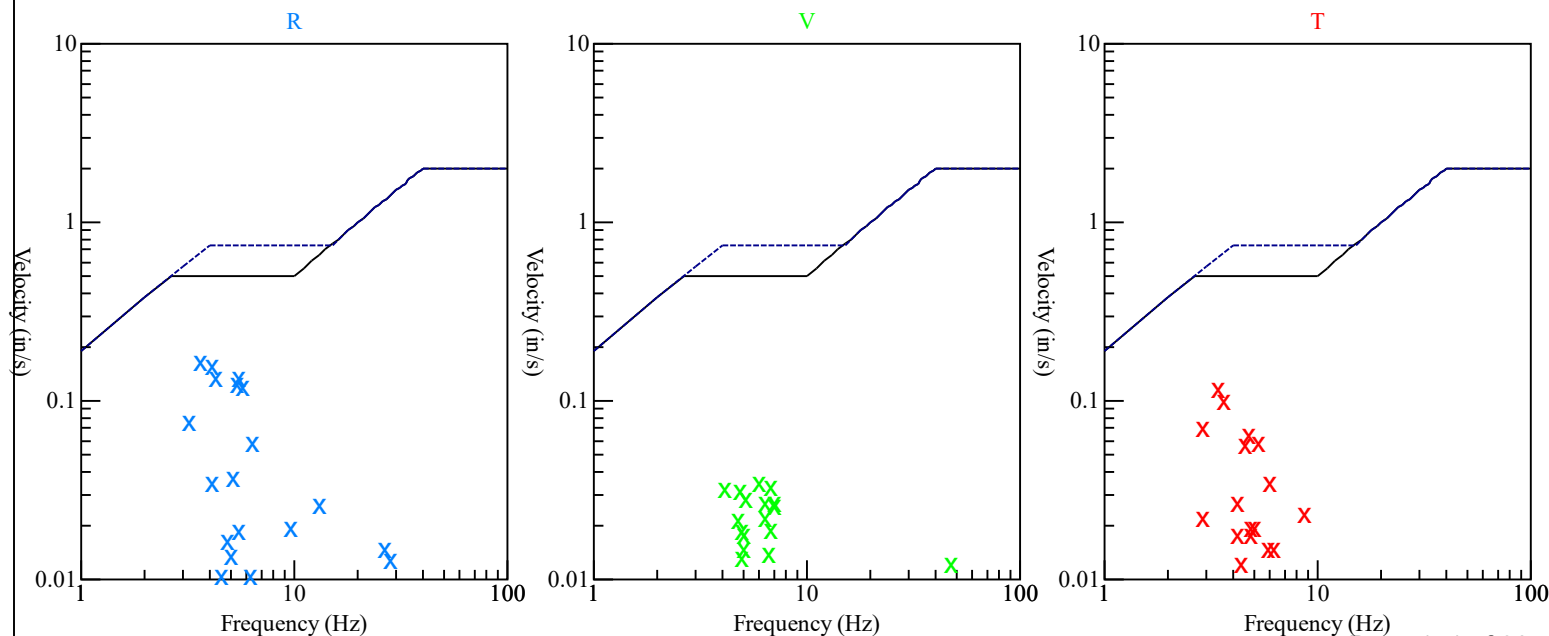
Graph Information

Time Range: -0.06244 s to 4 s, Intervals: 0.4062 Seconds

Waveform



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Kinsella Quarry
Fayetteville, NY
300 174 2400
MDB

Changing Seasons
43° 1'52.52"N
75°57'58.95"W
11091



Record: 11091202510081445080140.proevt
Number: 140
Seismograph: Mini-Seis III Pro 11091
Type of Record: Waveform
Date: 10/8/2025 2:45:08 PM
Duration: 4.06 Seconds
Sample Rate: 16384
Pre-Trigger: 0.0625 Seconds
Seismic Trigger: 0.03 in/s
Acoustic Trigger: 115.2 dB
Seismic Gain: 10.24
Acoustic Gain: 148.2 dB
Voltage: 6.15

Peaks and Frequencies

PPV Maximum (Geo #1): 0.0466 in/s

Acoustic #1: 113.5 dB @ 4.0 Hz (0.7496338 s)

Radial #1: 0.0466 in/s @ 24.1 Hz (0.09802246 s)

Vertical #1: 0.0316 in/s @ 25.0 Hz (0.03796387 s)

Transverse #1: 0.0438 in/s @ 4.6 Hz (0.4193115 s)

Displacement (Geo #1): 0.00138 in

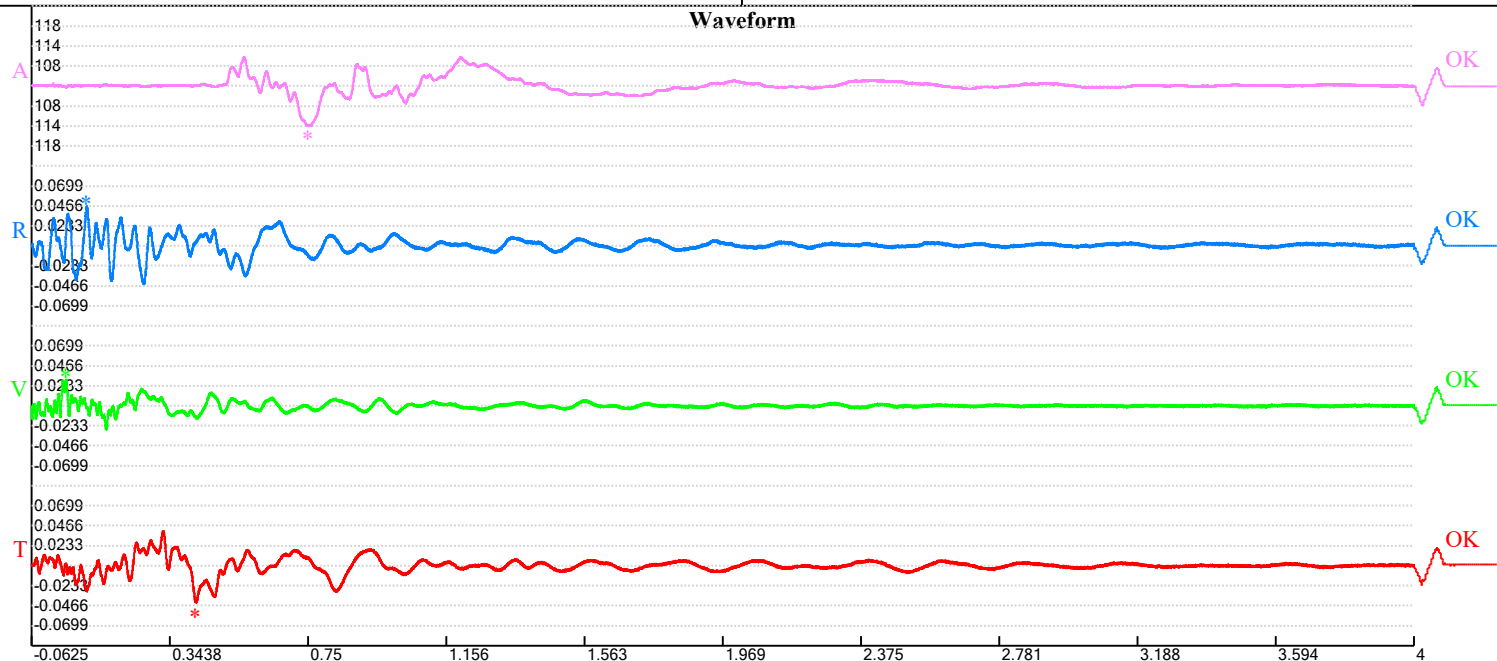
Acceleration (Geo #1): 0.0795 g's

Last Calibration Date: 2/13/2025

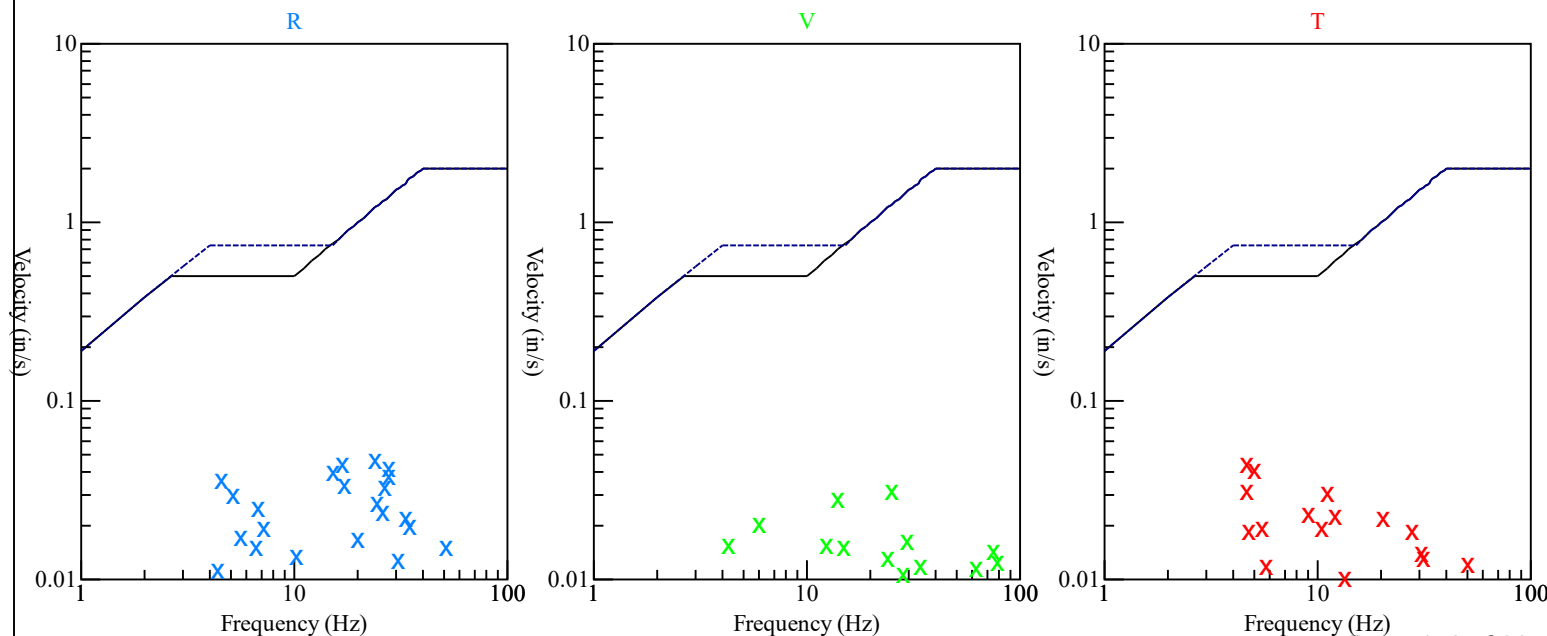
Graph Information

Time Range: -0.06244 s to 4 s, Intervals: 0.4062 Seconds

Waveform



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Wednesday, October 8, 2025

Blast 1 of 2

Field from report	Dimension	Vibra-Tech value	Maine Drilling & Blasting report values
Job ID		j-GEO-17037	11091202510081425530139
Serial Number		12172	139
Event Number		1	1
Event Time		10/08/2025 14:24:09 (UTC -04:00)	10/08/2025 14:25:53 (UTC -04:00)
Recording Time		5.0 s	4.06 s
Client		Town of Manlius	T. H. Kinsella, Inc.
Operation		8037 Changing Seasons	Changing Seasons
Location		Front R corner of home	
Operator		Vibra-Tech Engineers	Maine Drilling & Blasting
Seismic Trigger		0.03 in/s	0.03 in/s
Sound Trigger		129.5 dB (8.61e-03 psi)	115.2 dB
Location (latitude, longitude)		43.031668, -75.967817	43.031256, -75.966375
Summary Data - PPV (in/s)	Longitudinal	0.05	0.163
Summary Data - PPV (in/s)	Transverse	0.128	0.115
Summary Data - PPV (in/s)	Vertical	0.0275	0.0341
Summary Data - FREQ (Hz)	Longitudinal	3.4	3.6
Summary Data - FREQ (Hz) T	Transverse	3.5	3.4
Summary Data - FREQ (Hz) V	Vertical	4.3	5.9
Summary Data - TIME (s) L	Longitudinal	0.53	0.4430542
Summary Data - TIME (s) T	Transverse	0.834	0.3322754
Summary Data - TIME (s) V	Vertical	0.448	0.690918
Summary Data - PD (.001")		1.87 (L), 5.73 (T), 1.19 (V)	7.01
Summary Data - PPA (g)		0.0194	0.0795
Peak Air Pressure		117.2 dB (2.10e-03 psi) @ 2.6 Hz, 1.302 s	119.8 dB @ 4.3 Hz, 0.6091309 s

Wednesday, October 8, 2025

Blast 2 of 2

Field from report	Dimension	Vibra-Tech value	Maine Drilling & Blasting report values
Job ID		j-GEO-17037	11091202510081445080140
Serial Number		12172	140
Event Number		2	2
Event Time		10/08/2025 14:43:24 (UTC -04:00)	10/08/2025 14:45:08 (UTC -04:00)
Recording Time		5.0 s	4.06 s
Client		Town of Manlius	T. H. Kinsella, Inc.
Operation		8037 Changing Seasons	Changing Seasons
Location		Front R corner of home	
Operator		Vibra-Tech Engineers	Maine Drilling & Blasting
Seismic Trigger		0.03 in/s	0.03 in/s
Sound Trigger		129.5 dB (8.61e-03 psi)	115.2 dB
Location (latitude, longitude)		43.031668, -75.967817	43.031256, -75.966375
Summary Data - PPV (in/s)	Longitudinal	0.0325	0.0466
Summary Data - PPV (in/s)	Transverse	0.04	0.0438
Summary Data - PPV (in/s)	Vertical	0.03	0.0316
Summary Data - FREQ (Hz)	Longitudinal	3.2	24.1
Summary Data - FREQ (Hz) T	Transverse	8.3	4.6
Summary Data - FREQ (Hz) V	Vertical	16.7	25
Summary Data - TIME (s) L	Longitudinal	0.716	0.09802246
Summary Data - TIME (s) T	Transverse	1.02	0.4193115
Summary Data - TIME (s) V	Vertical	0.309	0.03796387
Summary Data - PD (.001")		1.22 (L), 0.98 (T), 0.43 (V)	1.38
Summary Data - PPA (g)		0.0194	0.0795
Peak Air Pressure		109.0 dB (8.19e-04 psi) @ 4.9 Hz, 1.150 s	113.5 dB @ 4.0 Hz, 0.7496338 s



Blast Report



Job#	3002824400	Cust. PO#	N/A	
Date	10/30/2025	Cust. Supt. Name	Tom Kinsella	
Customer Name	TH Kinsella Inc	Pick Tks#	MDBSO001589 3	N/A
Job Address	<u>Fayetteville Quarry - 8086 E Genesee St, Fayetteville</u>	N/A	N/A	N/A
		N/A	N/A	N/A
State	NY	Permit No.		
Pre Shift Insp.Time (24hrs) :	6:45:00 AM	Identify Hazards	<u>Seams present throughout blast area</u>	
Post Shift Insp.Time (24hrs):	2:15:00 PM			
Blaster :	Passarella,James J	Precautions Taken:		
License #:	21-0005		<u>tape up powder column, use stick product as needed.</u>	
Signature:				

Weather
Comments:
rain all day.

No. of Crew Members	4		
Crew Members Names :			
P. Nichols	D. Eastman	J. Sampson	M. Dealing V-815
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Seismograph Monitoring Plan (Not to Scale):



Shot # 3 Shot Time (24hrs) 12:38 Shot VideoTaped: YWeatherNotes:

Blast only contract
Drilled by Tim Deline Quarry Drilling
lost some product in seams, used stick product as needed.
Blast results were normal.

Weather Conditions: RainTemp (°F): 40-48Wind Direction: EastWind Spd: 2-11 MPHPreblast

Blast Direction: East Max Holes/Delay: 1.00 Predicted K Factor: 160
Blast Location: 43° 1'39.38"N 75°57'59.65"W Slope: -1.60 Scale Dist.: 73.84
Location of Structure: Changing Seasons Predicted Max Weigh/Delay: 300.00 Lbs Predicted PPV: 0.16
Measurement Google Map Dist. to Closest (Ft) 1279 Railroad/Highway 766 Overhead Util 802 Underground Util 889

Pay QuantitiesPay Calculations Notes

Fire Detail # of Hrs: N/A
Pay Cubic Volume 7914.67 Yard
Pay Weight 17887.15 Tons
N/A N/A N/A

12 x 14 x 31.8 / 27 x 40 = 7,914.67 cy
7,914.67 x 2.26 = 17,887.15 Ton

Shot InfoConfiguration1 - Quarry

Total Drill Depth(Ft)	<u>1272.00</u>	Total SqFt	<u>6720.00</u>	Avg Powder	<u>1.51</u> Lbs/Cyd	Total Product Weight (Lbs) :	<u>11919</u>
Total Tons	<u>17887.15</u>	Total Yards	<u>7914.67</u>	Factor	<u>0.66</u> Cyd/Lbs	Avg Weight / Hole (Lbs):	<u>297.98</u>

Cal Method	Pattern								
# Holes	<u>40</u>	# Loaded Holes	<u>40</u>	Cover Used/No	<u>N/A</u>				
	<u>AVG</u>	<u>Min</u>	<u>Max</u>						
Drill Depth	<u>31.80</u>	<u>31.00</u>	<u>36.00</u>	Stone Weight	<u>2.26</u> /Cyd	Top Stemming	<u>9.00</u> Min	<u>14.00</u> Max	
Burden(Feet)	<u>12.00</u> Feet	<u>12.00</u>	<u>12.00</u>	Type of Terrain	<u>Flat/Sloped</u>	Charges/Hole	<u>1</u> Min	<u>1</u> Max	
Spacing (Feet)	<u>14.00</u> Feet	<u>14.00</u>	<u>14.00</u>	Type of Rock	<u>Limestone</u>	Deck Stemming	<u>0.00</u> Min	<u>0.00</u> Max	
Hole Diameter	<u>5.50</u>	<u>5.50</u>	<u>5.50</u>	Stemming Type	<u>1/2" Crushed Stone</u>	Charge Wgt/Deck	<u>221.00</u> Min	<u>300.00</u> Max	
OverBurden (Ft)	<u>1.00</u>	<u>0.00</u>	<u>2.00</u>	Height of Face	<u>31.80</u>	Depth of Water	<u>0.00</u> Min	<u>13.00</u> Max	
Control Row Taped	<u>N</u>			Angled Holes /Face Bermed	<u>N/N</u>	Laser/BoreTracking	<u>N</u>		

Total Pounds 11918.80 LbsType Of Initiation: Electronic

Product #	Desc	Density	Wgt
425	Bulk Powernel 2500 Emulsion	1.25	11300.00 Lbs
			Lbs
	BA BULK Totals:	N/A	11300.00 Lbs

Product #	Desc	Qty	Wgt
HIL*213657775	Poweran 500 4.5x25	20.00	500.00 Lbs
			Lbs
	BAPACKAGED Totals:	20.00	500.00 Lbs

Product #	Desc	Qty	Wgt
TR0450	TROJAN SHIELD "L" 450G 36/CS	40.00	39.60 Lbs
SP0900	TROJAN SPARTAN 2# 900G 18/CS	40.00	79.20 Lbs
	BOOSTERS Totals:	80.00	118.80 Lbs

Product #	Desc	Qty	Length
DS44030B	DIGISHOT DETONATOR 30FT/9.1M 84/CS	40	
DS44050B	DIGISHOT DETONATOR 50FT/15.2 60/CS	40	
	DETS DHOLE Totals:	80	

Product #	Desc	Qty	Length
R71000	SURFACE WIRE 1000FT SPOOL 2/CS	2.00	2000
	LINES Totals:	2.00	

Description: Face

Elevation	Feet
Brench (ft)	32.00
Floor (ft)	0.00
Overburden (ft)	2.00
Sub Drilling(ft)	0.00
Total Depth (ft)	31.98

N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	14.00
Poweran 500 4.5x25	2.64
TROJAN SHIELD "L" 450G 36/CS	0.34
Bulk Powernel 2500 Emulsion	15
TROJAN SPARTAN 2# 900G 18/CS	0

Description: Body

Elevation	Feet
Brench (ft)	32.00
Floor (ft)	0.00
Overburden (ft)	0.00
Sub Drilling(ft)	0.00
Total Depth (ft)	32.00

N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	9.00
Bulk Powernel 2500 Emulsion	5
TROJAN SHIELD "L" 450G 36/CS	0
Bulk Powernel 2500 Emulsion	18
TROJAN SPARTAN 2# 900G 18/CS	0

Seismographs**Actual Max Weight/Delay:300.00****Lbs**

Operator Name	Location of Seis	GPS Location	Seis #	Monitor Log Status	Actual PPV	Actual PPV Freq,	Actual db	Actual Dist. (ft)	Actual K Factor
D. Eastman	Changing Seasons	43° 1'39.38"N 75°57'59.65"W	11091	Triggered	0.099	3.7	119.6	1312	101

USBM/Velocity Waveform Analysis

Seismic Analysis

Job ID: j-GEO-17037
Serial Number: 12172
Event Number: 3
Event Time: 10/30/2025 12:36:23 (UTC -04:00)
Recording Time: 5.0 s
Product/Firmware: 0C-10.29
Client: Town of Manlius
Operation: 8037 Changing Seasons
Location: Front R corner of home
Distance:
Operator: Vibra-Tech Engineers
Comment:
Seismic Trigger: 0.03 in/s
Sound Trigger: 129.5 dB (8.61e-03 psi)
Additional Info: N43 1.9001, W75 58.0690

Summary Data

	L	T	V
PPV (in/s):	0.07	0.0825	0.0325
FREQ (Hz):	3.4	3.6	4.3
TIME (s):	0.812	1.209	0.683
PD (.001"):	2.59	3.51	1.14
PPA (g):	0.013	0.013	0.013

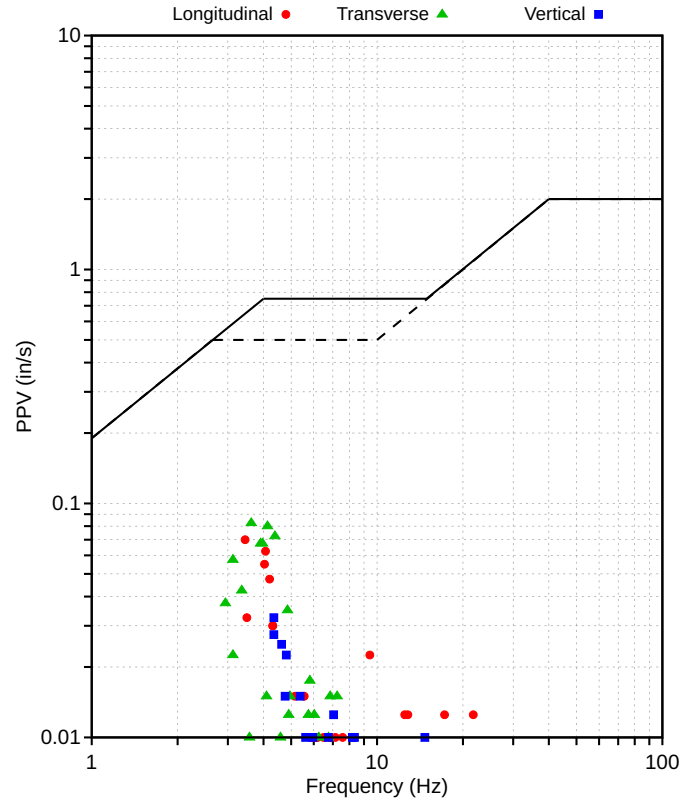
Peak Air Pressure: 116.7 dB (1.99e-03 psi) @ 13.2 Hz, 1.181 s

Shaketable Calibrated

On: 07/01/2025
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels

SSN: 12172 Event: 3

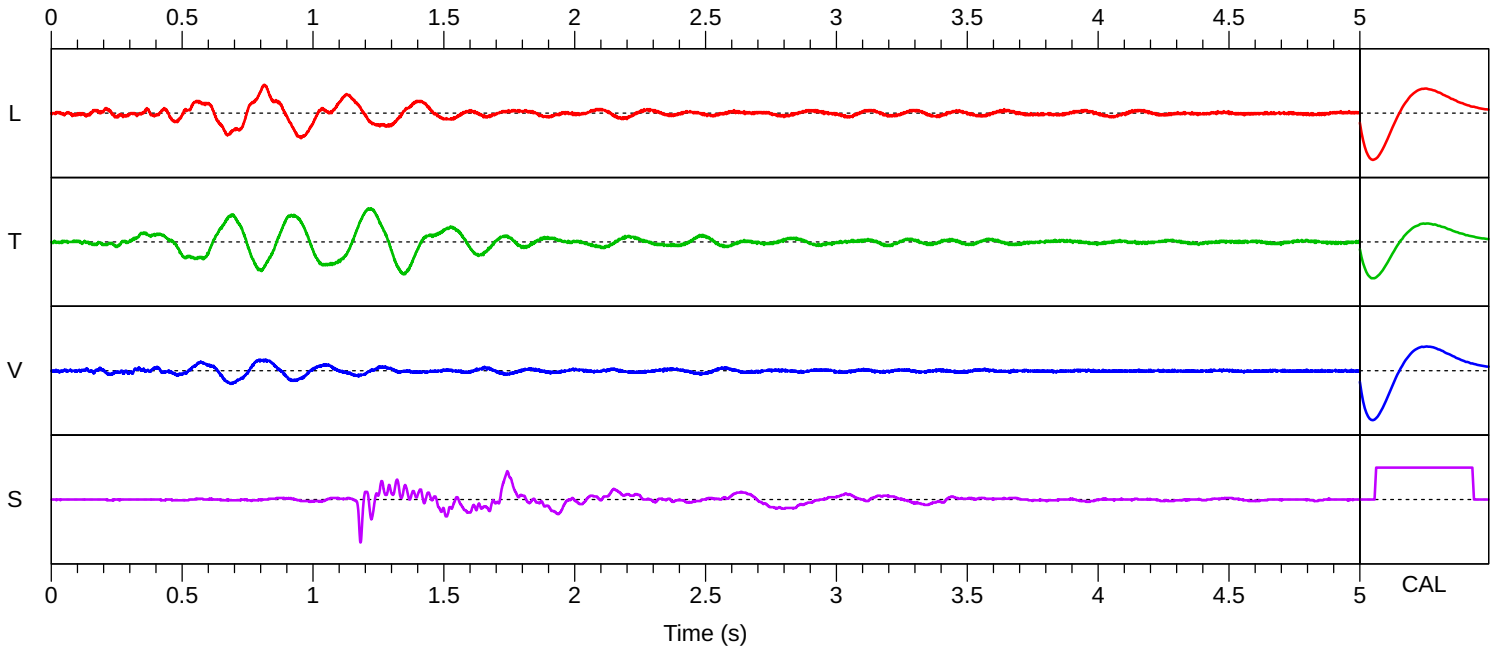


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.16 in/s
Sound Scale: +/- 0.00299 psi

Velocity Waveform

SSN: 12172 Event: 3



Weather

Blast only contract
Drilled by Tim Deline Quarry Drilling
Rock was very seamy, lost product while loading
used stick product to load up through seams.
had 5 holes blocked off by rocks and/or mud, unable to clear at time of loading
cut 6 holes on east end of shot due to bad holes.
blast results were as expected.

Weather Conditions:	Rain	
Temp (°F):	40-48	
Wind Direction:	East	
Wind Spd:	2-11	MPH

Blast Direction:		North		Max Holes/Delay:		1.00		Predicted K Factor:		160	
Blast Location:		43° 1'50.25"N 75°57'51.22"W		Slope:		-1.60		Scale Dist.:		49.71	
Location of Structure:		Changing Seasons		Predicted Max Weigh/Delay:		350.00 Lbs		Predicted PPV:		0.31	
Measurement	Google Map	Dist. to Closest (Ft)	Structure	930	Railroad/Highway	1823	Overhead Util	1101	Underground Util	1062	

Pay Calculations Notes

$$12 \times 14 \times 25 / 27 \times 30 = 4,666.67 \text{ cy}$$
$$4,666.67 \times 2.26 = 10,546.67$$

1 - Quarry

Total Drill Depth(Ft)		900.00		Total SqFt		6048.00		Avg Powder		2.10 Lbs/Cyd		Total Product Weight (Lbs) :				11755	
Total Tons		12656.00		Total Yards		5600.00		Factor		0.48 Cyd/Lbs		Avg Weight / Hole (Lbs):				391.83	
Cal Method		Pattern															
# Holes		36		# Loaded Holes		30		Cover Used/No		N/A							
AVG				Min		Max											
Drill Depth		25.00		25.00		26.00		Stone Weight		2.26 /Cyd		Top Stemming		8.00 Min		10.00 Max	
Burden(Feet)		12.00 Feet		12.00		12.00		Type of Terrain		Flat/Sloped		Charges/Hole		1 Min		1 Max	
Spacing (Feet)		14.00 Feet		14.00		14.00		Type of Rock		Limestone		Deck Stemming		0.00 Min		0.00 Max	
Hole Diameter		5.50		5.50		5.50		Stemming Type		1/2" Crushed Stone		Charge Wgt/Deck		221.00 Min		400.00 Max	
OverBurden (Ft)		1.00		0.00		3.00		Height of Face		25.00		Depth of Water		0.00 Min		13.00 Max	
Control Row Taped		N						Angled Holes /Face Bermed		N/N		Laser/BoreTracking		N			
Total Pounds		11755.10 Lbs		Type Of Initiation:		Electronic											

Product #	Desc	Density	Wgt	
QR743G	TITAN 1000 LD (G)	1.25	4730.00	Lbs
425	Bulk Powernel 2500 Emulsion	1.25	6186.00	Lbs
BA BULK Totals:		N/A	10916.00	Lbs
Product #	Desc	Qty	Wgt	
HIL*213657775	Poweran 500 4.5x25	30.00	750.00	Lbs
BAPACKAGED Totals:		30.00	750.00	Lbs
Product #	Desc	Qty	Wgt	
TR0450	TROJAN SHIELD "L" 450G 36/CS	30.00	29.70	Lbs
SP0900	TROJAN SPARTAN 2# 900G 18/CS	30.00	59.40	Lbs
BOOSTERS Totals:		60.00	89.10	Lbs

Product #	Desc	Qty	Length
DS44030B	DIGISHOT DETONATOR 30FT/9.1M 84/CS	60	
DETS DHOLE Totals:		60	
Product #	Desc	Qty	Length
R71000	SURFACE WIRE 1000FT SPOOL 2/CS	1.00	1000
LINES Totals:		1.00	

Description: Avg

Elevation	Feet
Brench (ft)	25.00
Floor (ft)	0.00
Overburden (ft)	0.00
Sub Drilling(ft)	0.00
Total Depth (ft)	25.00

N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	8.00
TITAN 1000 LD (G)	2
TROJAN SHIELD "L" 450G 36/CS	0
Bulk Powernel 2500 Emulsion	15
TROJAN SPARTAN 2# 900G 18/CS	0

Seismographs**Actual Max Weight/Delay:400.00****Lbs**

Operator Name	Location of Seis	GPS Location	Seis #	Monitor Log Status	Actual PPV	Actual PPV Freq,	Actual db	Actual Dist. (ft)	Actual K Factor
D. Eastman	Changing Seasons	43° 1'39.38"N 75°57'59.65"W	11091	Triggered	0.218	3.3	121.5	616	52

USBM/Velocity Waveform Analysis

Seismic Analysis

Job ID: j-GEO-17037
Serial Number: 12172
Event Number: 4
Event Time: 10/30/2025 12:53:39 (UTC -04:00)
Recording Time: 5.0 s
Product/Firmware: 0C-10.29
Client: Town of Manlius
Operation: 8037 Changing Seasons
Location: Front R corner of home
Distance:
Operator: Vibra-Tech Engineers
Comment:
Seismic Trigger: 0.03 in/s
Sound Trigger: 129.5 dB (8.61e-03 psi)
Additional Info: N43 1.9001, W75 58.0690

Summary Data

	L	T	V
PPV (in/s):	0.145	0.09	0.045
FREQ (Hz):	3.4	4.0	4.8
TIME (s):	0.807	1.183	0.648
PD (.001"):	6.47	3.05	1.23
PPA (g):	0.0259	0.0194	0.0194

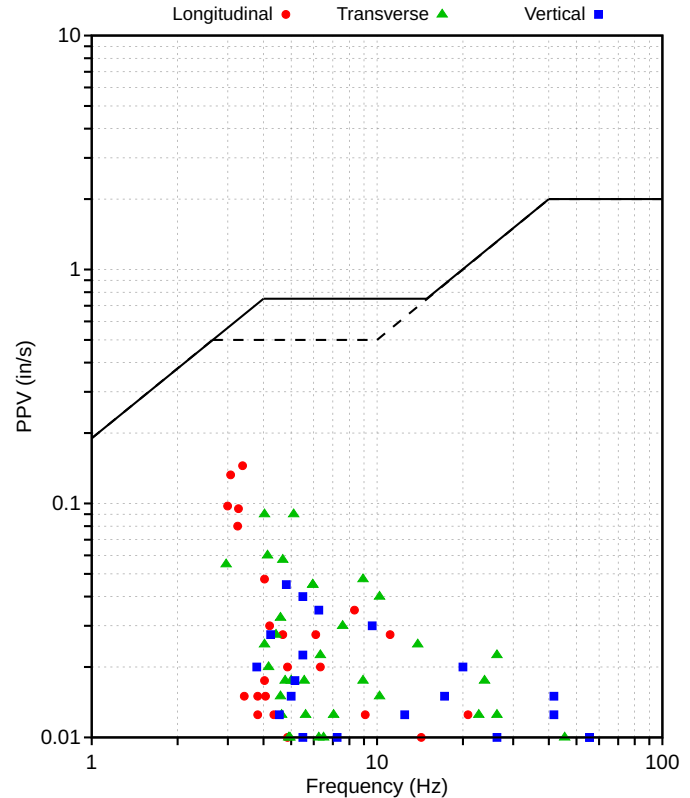
Peak Air Pressure: 116.4 dB (1.92e-03 psi) @ 5.6 Hz, 1.163 s

Shaketable Calibrated

On: 07/01/2025
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels

SSN: 12172 Event: 4



Waveform Graph Scale

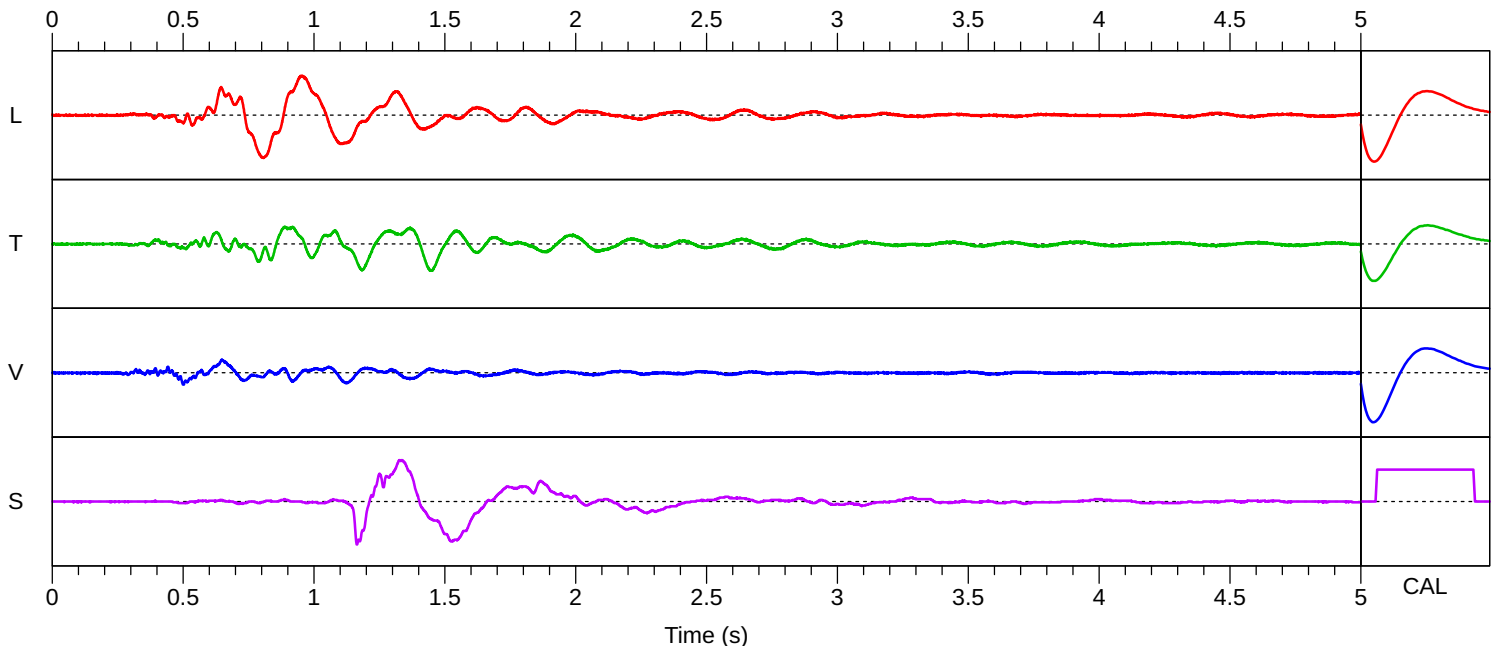
Time Scale: 0.1 s

Seismic Scale: +/- 0.217 in/s

Sound Scale: +/- 0.00288 psi

Velocity Waveform

SSN: 12172 Event: 4



Kinsella Quarry
Fayetteville, NY
300 174 2400
MDB

Changing Seasons
43° 1'52.52"N
75°57'58.95"W
11091



Record: 11091202510301238240146.proevt
Number: 146
Seismograph: Mini-Seis III Pro 11091
Type of Record: Waveform
Date: 10/30/2025 12:38:24 PM
Duration: 4.06 Seconds
Sample Rate: 16384
Pre-Trigger: 0.0625 Seconds
Seismic Trigger: 0.03 in/s
Acoustic Trigger: 115.2 dB
Seismic Gain: 10.24
Acoustic Gain: 148.2 dB
Voltage: 6.38

Peaks and Frequencies

PPV Maximum (Geo #1): 0.0997 in/s

Acoustic #1: 119.6 dB @ 6.9 Hz (0.5918579 s)

Radial #1: 0.0997 in/s @ 3.7 Hz (0.3414917 s)

Vertical #1: 0.0347 in/s @ 3.8 Hz (0.3492432 s)

Transverse #1: 0.0588 in/s @ 4.1 Hz (0.1538696 s)

Displacement (Geo #1): 0.00471 in

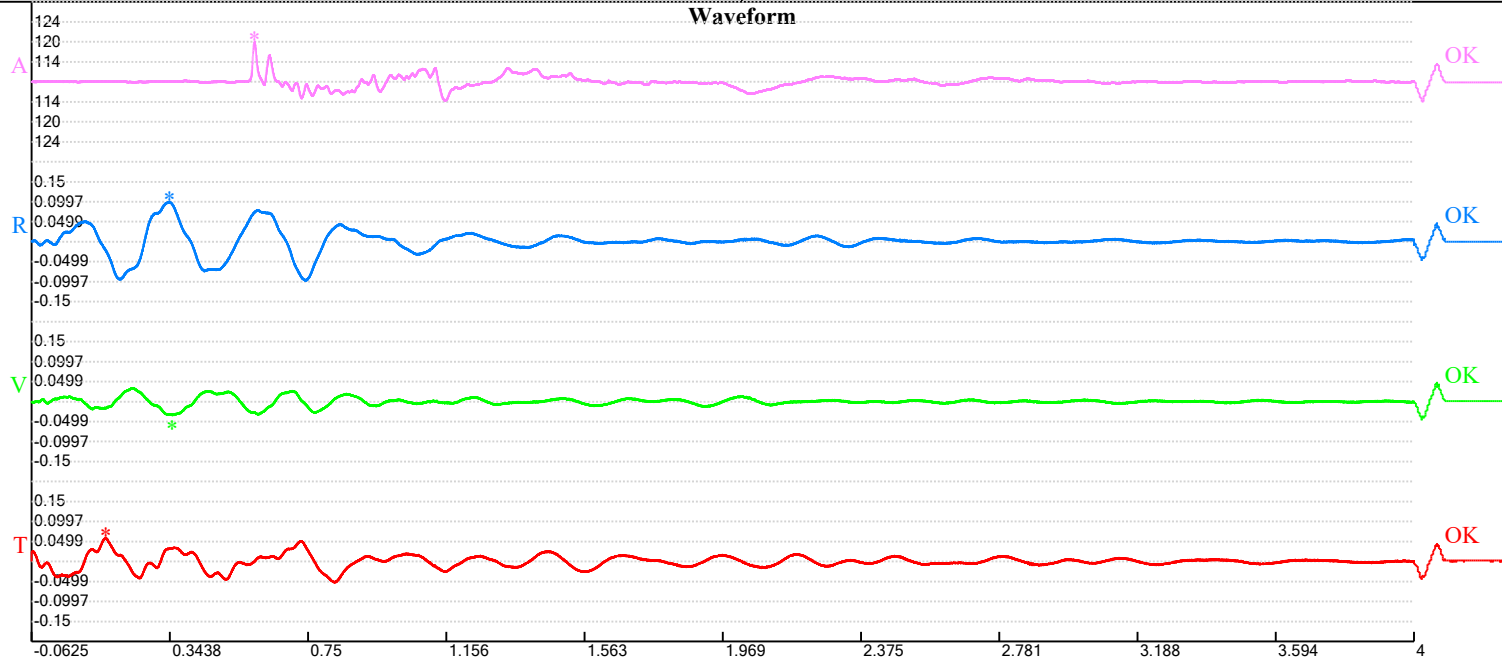
Acceleration (Geo #1): 0.106 g's

Last Calibration Date: 2/13/2025

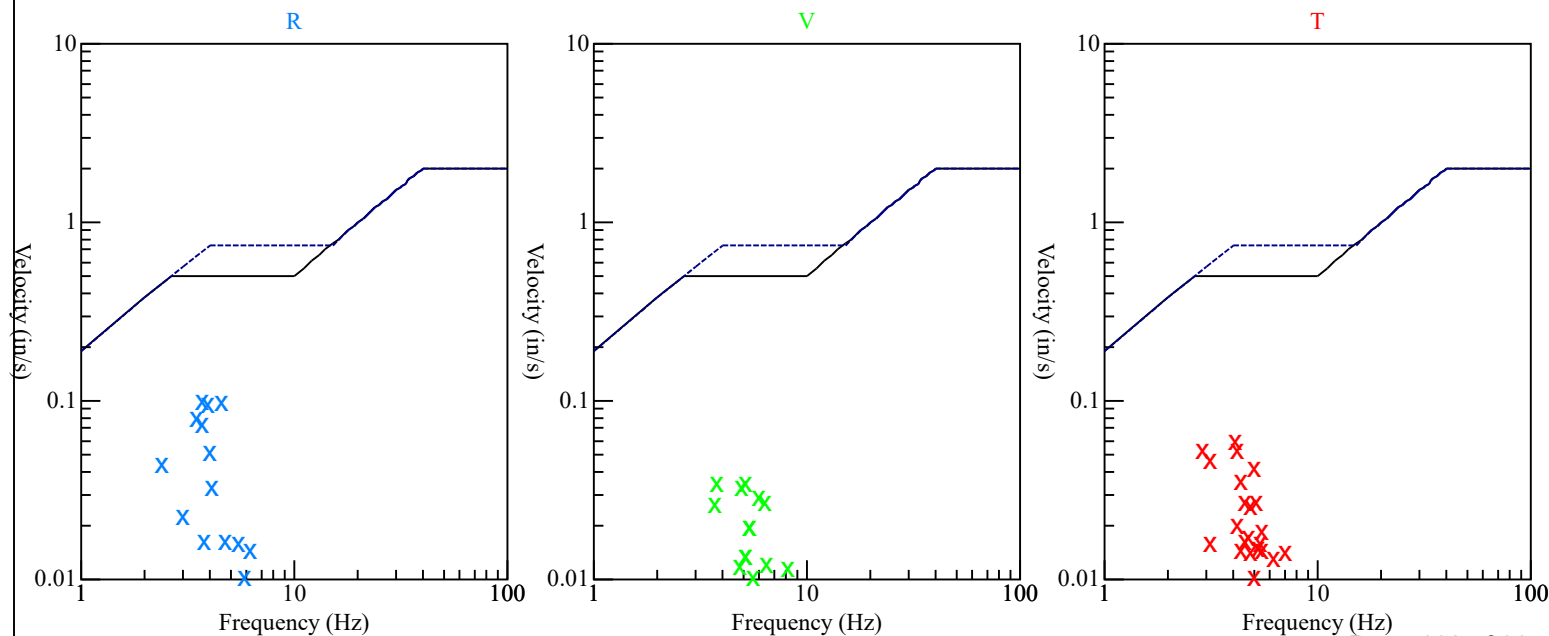
Graph Information

Time Range: -0.06244 s to 4 s, Intervals: 0.4062 Seconds

Waveform



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Kinsella Quarry
Fayetteville, NY
300 174 2400
MDB

Changing Seasons
43° 1'52.52"N
75°57'58.95"W
11091



Record: 11091202510301255390147.proevt

Number: 147

Seismograph: Mini-Seis III Pro 11091

Type of Record: Waveform

Date: 10/30/2025 12:55:39 PM

Duration: 4.06 Seconds

Sample Rate: 16384

Pre-Trigger: 0.0625 Seconds

Seismic Trigger: 0.03 in/s

Acoustic Trigger: 115.2 dB

Seismic Gain: 10.24

Acoustic Gain: 148.2 dB

Voltage: 6.36

Peaks and Frequencies

PPV Maximum (Geo #1): 0.218 in/s

Acoustic #1: 121.5 dB @ 2.0 Hz (0.7015991 s)

Radial #1: 0.218 in/s @ 3.3 Hz (0.2114868 s)

Vertical #1: 0.0756 in/s @ 4.9 Hz (0.2147217 s)

Transverse #1: 0.127 in/s @ 3.8 Hz (0.701355 s)

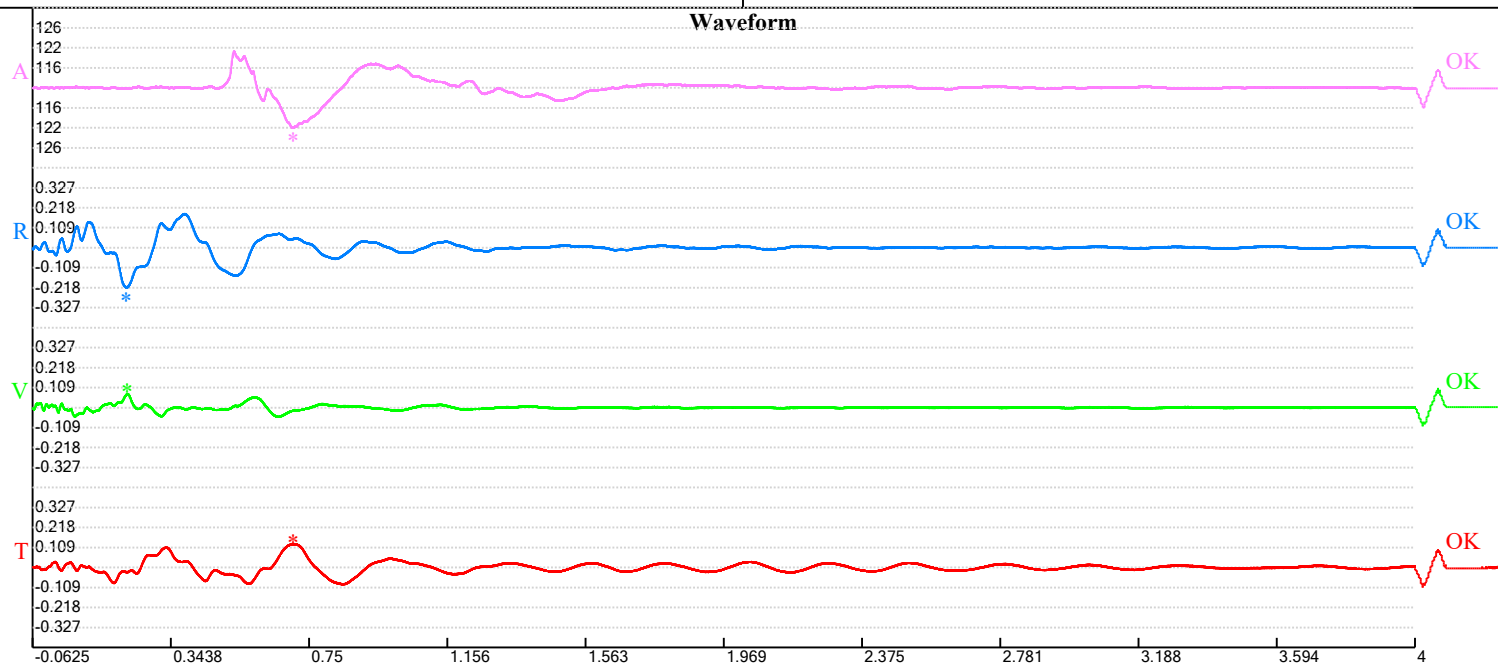
Displacement (Geo #1): 0.0091 in

Acceleration (Geo #1): 0.139 g's

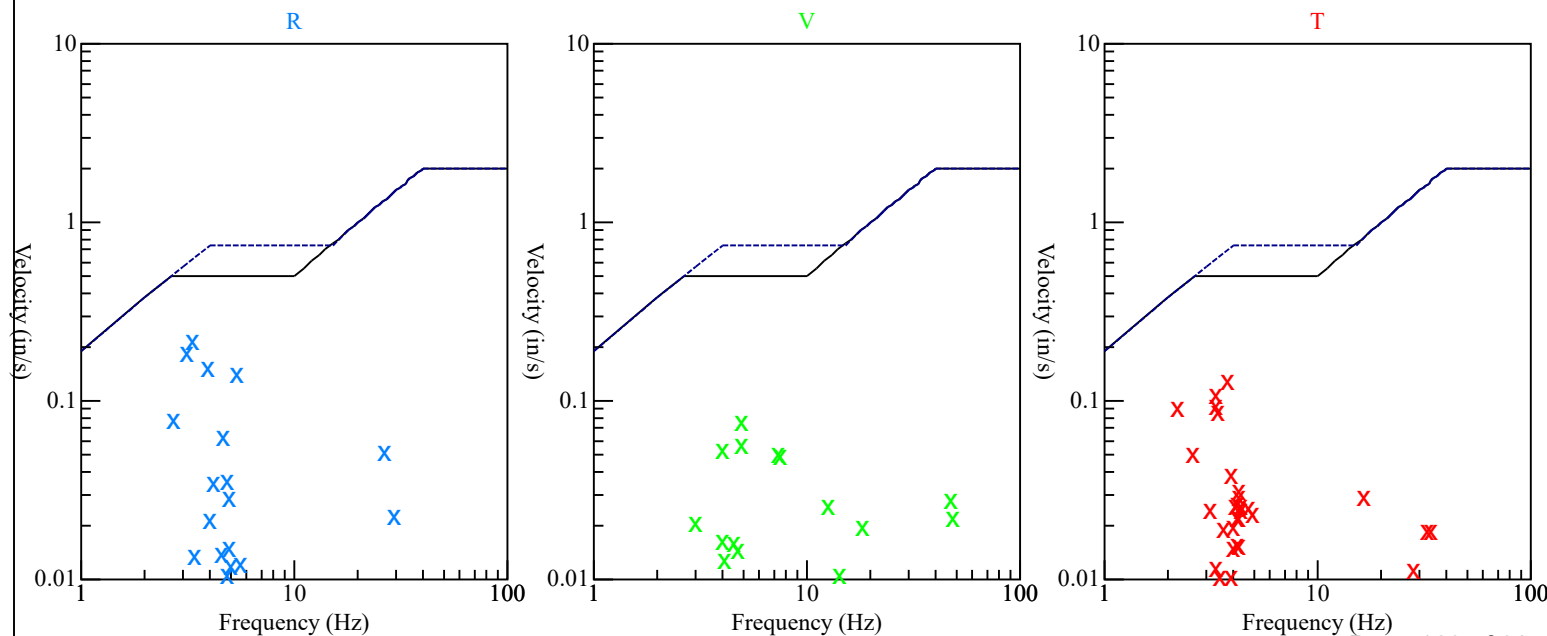
Last Calibration Date: 2/13/2025

Graph Information

Time Range: -0.06244 s to 4 s, Intervals: 0.4062 Seconds



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Thursday, October 30, 2025

Blast 1 of 2

Field from report	Dimension	Vibra-Tech value	Maine Drilling & Blasting report values
Job ID		j-GEO-17037	11091202510301238240146
Serial Number		12172	146
Event Number		3	1
Event Time		10/30/2025 12:36:23 (UTC -04:00)	10/30/2025 12:38:24 (UTC -04:00)
Recording Time		5.0 s	4.06
Client		Town of Manlius	T. H. Kinsella, Inc.
Operation		8037 Changing Seasons	Changing Seasons
Location		Front R corner of home	
Operator		Vibra-Tech Engineers	Maine Drilling & Blasting
Seismic Trigger		0.03 in/s	0.03 in/s
Sound Trigger		129.5 dB (8.61e-03 psi)	115.2 dB
Location (latitude, longitude)		43.031668, -75.967817	43.031256, -75.966375
Summary Data - PPV (in/s)	Longitudinal	0.07	0.0997
Summary Data - PPV (in/s)	Transverse	0.0825	0.0588
Summary Data - PPV (in/s)	Vertical	0.0325	0.0347
Summary Data - FREQ (Hz)	Longitudinal	3.4	3.7
Summary Data - FREQ (Hz) T	Transverse	3.6	4.1
Summary Data - FREQ (Hz) V	Vertical	4.3	3.8
Summary Data - TIME (s) L	Longitudinal	0.812	0.3414917
Summary Data - TIME (s) T	Transverse	1.209	0.1538696
Summary Data - TIME (s) V	Vertical	0.683	0.3492432
Summary Data - PD (.001")		2.59(L), 3.51 (T), 1.14 (V)	4.71
Summary Data - PPA (g)		0.013	0.106
Peak Air Pressure		116.7 dB (1.99e-03 psi) @ 13.2 Hz, 1.181 s	119.6 dB @ 6.9Hz, 0.5918579 s

Thursday, October 30, 2025

Blast 2 of 2

Field from report	Dimension	Vibra-Tech value	Maine Drilling & Blasting report values
Job ID		j-GEO-17037	11091202510301255390147
Serial Number		12172	147
Event Number		4	2
Event Time		10/30/2025 12:53:39 (UTC -04:00)	10/30/2025 12:55:39 (UTC -4:00)
Recording Time		5.0 s	4.06
Client		Town of Manlius	T. H. Kinsella, Inc.
Operation		8037 Changing Seasons	Changing Seasons
Location		Front R corner of home	
Operator		Vibra-Tech Engineers	Maine Drilling & Blasting
Seismic Trigger		0.03 in/s	0.03
Sound Trigger		129.5 dB (8.61e-03 psi)	115.2 dB
Location (latitude, longitude)		43.031668, -75.967817	43.031256, -75.966375
Summary Data - PPV (in/s)	Longitudinal	0.145	0.218
Summary Data - PPV (in/s)	Transverse	0.09	0.127
Summary Data - PPV (in/s)	Vertical	0.045	0.0756
Summary Data - FREQ (Hz)	Longitudinal	3.4	3.3
Summary Data - FREQ (Hz) T	Transverse	4	3.8
Summary Data - FREQ (Hz) V	Vertical	4.8	4.9
Summary Data - TIME (s) L	Longitudinal	0.807	0.2114868
Summary Data - TIME (s) T	Transverse	1.183	0.701355
Summary Data - TIME (s) V	Vertical	0.648	0.2147217
Summary Data - PD (.001")		6.47 (L), 3.05 (T), 1.23 (V)	9.1
Summary Data - PPA (g)		0.0259 (L), 0.0194 (T), 0.0194 (V)	0.139
Peak Air Pressure		116.4 dB (1.92e-03 psi) @ 5.6 Hz, 1.163 s	121.50 db @ 2.0 Hz, 0.7015991 s

Section D

Air Quality Report

2025- Quarry operations were minimal again this year with 4 blasts. 2 new Purple air monitors were purchased by Kinsella and were added this year on the downwind side of the quarry. They are located at 8114 East Genesee St. Fayetteville (Bender house) referred to as Green Lakes 5 monitor, and 8236 Salt Springs Road Manlius (Cayanne house). We have attached a summary of the readings. Of particular interest in these readings were the effects of the Canadian wildfires, and winter temperature inversions that trap pollution. The readings during crushing and blasting operations did not seem to have any effects.

2024- Quarry operations were minimal this year with only 3 blasts and overall reduced operations because of permitting issues. No significant changes were made this year to the quarry to control dust. All the previous improvements are working well.

2023- Changing Seasons purchased 2 “Purple Air Monitors” that measure the air quality in the area. The data is available in real time to the public via the Purple Air website. Initial results have not shown the quarry having affected the quality of the air in the neighborhood.

2022- We purchased new road sweeper that is easier and more efficient sweeping the quarry entrance and quarry access road. Our old sweeper was an attachment to a skid steer machine, the new sweeper is a complete unit with dust suppression. We clean the route 5 entrance and road weekly unless there are events that requires more cleanings.

2021- No significant changes were made this year to the quarry to control dust. All the previous improvements are working well.

2020- We resurfaced our entry road including repairs near the quarry that will allow us to sweep and wash down our road better. Dust enclosures at crusher discharge points were improved and water nozzles added.

2019- We made more changes in our haul roads reducing the distance and speed of the haul truck that transports rock to the crusher, therefore, reducing the potential for dust. Changes in our wash system has eliminated moving “pond fines” that have potential to create dust.

2018- Spring of 2018 we installed a new primary crusher in our system that included a redesigned crusher discharge point that reduces fugitive dust. All other dust control practices remain the same.

2017- We continue to add water nozzles to various locations in the crushing and screening locations to keep dust to a minimum. In addition to the nozzles, we are controlling traffic speeds, reducing the height material falls, and enclosing dusty areas.

2015-2016 We continue to monitor dust emissions from various activities in the quarry and improve our plant and procedures to keep dust to a minimum. This includes

controlling traffic speeds, maintaining dust suppression systems, reducing the height material falls, and enclosing dusty areas.

2014- We made changes in our haul roads reducing the distance and speed of the haul truck that transports rock to the crusher. This change also eliminated the mixing of on road truck traffic with off road (quarry trucks) traffic, therefore, reducing mud tracked by trucks. Reduced speed, distance, and mud tracking reduces dust.

2013- There were no dust complaints in 2013. We added 3 additional spray nozzles to in the area of our primary crusher to further reduce any fugitive dust.

2012- In 2012 we made some plant modifications to include a different feeder along with some additional screening that will allow us to process some materials that we previously were unable to. In addition, we added wash equipment that further reduces dust. In the past we dry screened all of our products. Now the finished material is processed wet.

2011- As stated previously, after enclosing our crushers we have been unable to test our crushers for dust. The technician must be able to see the crusher in order to test it. With the crushers enclosed, there are no emission points. Noteworthy is there have not been any dust complaints from the quarry in 15+ years.

2010- After enclosing our crusher in building per our agreement with the neighbors, we have not been able to do opacity testing on our crusher. State and Federal compliance has been met with past testing.

2009- On July 30, 2008 we completed our required opacity testing for our 3 crushers. Enclosed are the results that exceed all State and Federal clean air requirements.

2008- On July 30, 2008 we completed our required opacity testing for our 3 crushers. Enclosed are the results that exceed all State and Federal clean air requirements.

2007- On September 13, 2007 we completed our required opacity testing for our 3 crushers. Enclosed are the results that exceed all State and Federal clean air requirements.

2006- On May 31, 2006 we completed our required opacity testing for our 3 crushers. Enclosed are the results that exceed all state and Federal clean air requirements.

2005- On August 23, 2005 we completed our opacity testing for our 3 crushers as required. Enclosed are the results.

2004- Enclosed is our opacity testing for each of our 3 crushers as required in our 2003 permit

2025 Sept 5-Dec 26																	
Air Quality Monitoring																	
US EPA PM 2.5 (AQI)																	
Weekly average & max # Without EPA conversion																	
Date	09/05	09/12	09/19	09/26	10/03	10/10	10/17	10/24	10/31	11/07	11/14	11/21	11/28	12/05	12/12	12/19	12/26
Monitors	Weekly Average & High Reading																
GreenLakes5	40 50*	41 51*	28 59*	25 55*	31 50*	18 39*	8 11	15 38*	9 13	13 30*	12 25*	31 56*	23 32*	33 62*	59 88**	38 64**	37 50**
8005 Summerview	38 48*	39 50*	26 52*	26 52*	26 43*	16 31*	7 10	11 37*	8 10	12 28*	12 22*	29 55*	20 29*	30 60*	53 78**	32 60**	31 43**
Fayetteville-1	37 49*	39 49*	26 52*	27 52*	26 42*	17 33*	7 11	11 37*	9 11	11 28*	11 21*	29 56*	19 29*	30 59*	54 80**	33 60**	32 46**
Southwood	40 51*	40 52*	26 59*	24 54*	28 48*	14 30*	9 12	15 36*	10 19	14 29*	12 24*	30 56*	26 33*	33 61*	51 73**	32 62**	30 41**
Liverpool (Suspect calibration low)	30 38*	35 38*	22 60*	22 34*	20 38*	13 35*	6 10	12 28*	7 9	10 27*	11 25*	23 50*	19 28*	30 56*	49 73**	30 58**	28 38**
Brickyard Falls	50 53*	49 50*	33 52*	22 50*	33 49*	19 43*	8 11	17 36*	15 36	19 34*	16 24*	32 60*	26 43*	34 61*	58 82**	37 61**	40 51**
8236 Salt Springs	37 45*	40 52*	27 58*	24 53*	25 42*	18 33*	8 11	12 35*	9 10	14 26*	12 25*	30 58*	24 29*	33 61*	52 78**	38 63**	35 47**
* Canadian wood smoke																	
** winter temp inversions, trapping																	
pollution																	

Section E

Water Report (Wells)

Monitoring Wells:

In the past we used the following wells for testing purposes.

1. May's House (8180 Salt Springs Road)
2. John Kinsella's House (5470 Townsend Road) –discontinued
3. Quarry*

These wells were tested for turbidity and for hydrocarbons.

We have sold the 2 houses and are limited on which wells we are able to test; therefore, we plan to test the wells only if there is a problem or a complaint. We have 4-5 years worth of baseline data at this point.

2012- 3 new wells were drilled this year for washing purposes. If needed, they could be used for monitoring.

2016- The quarry was required to get a New York State Department of Environmental Conservation Water Withdrawal Permit to operate all the wells on the premises and for washing the stone. We received this permit in 2016.

2017- Per our Water Withdrawal Permit, we submit annual water usage reports to the NYSDEC.

2025- Part of our new Special Use Permit from the town, we were required to offer a base line well study of 4 properties adjacent to the quarry. 3 properties chose to participate and the reports are attached.



Fox Professional Geology, PLLC
310 Cherry Road
Syracuse, New York 13219
Phone: (315) 935-5467

24 November 2025

WATER WELL SURVEY REPORT

Report Number THK-001_8117 SSR

Report to: T.H. Kinsella, Inc.
P.O. Box 7
Fayetteville, New York 13066

SURVEY LOCATION

8117 Salt Springs Road
Manlius, NY 13104

SCOPE OF WORK

At the request of T.H. Kinsella, Inc., Fox Professional Geology, PLLC (FoxPG) performed the following scope of work based on technical requirements contained in Condition (21) of the current Natural Resource Removal Permit issued to T.H. Kinsella, Inc. by the Town of Manlius (the Permit).

- Contact the owners of specific properties listed in Condition (21) of the Permit to seek permission to perform a baseline water well survey at each property.
- Compilation of general well information provided by the owners.
- Acoustical monitoring of the groundwater elevation within the water supply well at each property.
- Perform a water supply system flow rate test at one outdoor spigot/hose bib at each property over a period of one hour.
- Field observation and measurement of selected water quality parameters at each property including temperature, pH, conductivity, turbidity, dissolved oxygen, color, and odor.
- Collection of one groundwater sample produced from the water supply well at each property for laboratory analysis of selected water quality parameters including pH, specific conductance, turbidity, *E. coli*, color, odor, and metals.

Subsequent sections of this report are specific to the property located at 8117 Salt Springs Road in the Town of Manlius, Onondaga County, New York (the Property).

OWNER'S PERMISSION AND WELL INFORMATION REQUEST

Correspondence requesting permission to perform a baseline water well survey and information on the water well was sent to the Property owner via certified mail on 17 September 2025. Initial permission from the Property owner dated 10 October 2025 was received by FoxPG via return mail. The Property owner was subsequently contacted via telephone to describe the scope of work to be performed, obtain permission to perform the described scope of work, and if acceptable, schedule the performance of field work at the Property.

FIELD WORK

Field work was initially performed at the Property on 29 October 2025 after the Property owner showed FoxPG the locations and layout of the water well and supply system configurations at the residence. FoxPG described the scope of work to be performed and obtained permission from the Property owner to perform the described work. Field work was conducted to the extent practicable based on accessibility and feasibility considerations of the water well and supply system configurations.

Well and Pressure Tank Locations

The approximate location and surface elevation of the water well at the Property were measured using a Garmin ETREX 32X Global Positioning System (GPS) device. The location of the water system pressure tank was determined through visual inspection.

Groundwater Level Measurement

An unsealed well cap was present on top of the six-inch steel well casing. The well cap was removed to provide access to the inside of the well. Depth to water inside the well was measured to the nearest 0.1 foot using a Ravensgate Corporation Model 300 sonic water level meter in normal operation mode with a temperature setting of 48° Fahrenheit (approximately 9° Celsius). The unsealed well cap was placed back on top of the well casing after the completion of water level measurements.

Flow Rate and Pressure Test

Water flow rate and pressure readings were measured and recorded initially and approximately every 15 minutes thereafter on 29 October 2025 at the location approved by the Property owner, which was an exterior hose bib located on the south side of the residential structure. Water from the hose bib was directed away from the house using the Property owner's garden hose to an on-site location approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve over a period of approximately one hour using a Duro Model MO-10060 flow meter and pressure test gauge. The test was performed for the sole purpose of measuring water flow rate and pressure and did not include any evaluation of any other considerations, including but not limited to any mechanical components and/or the structural soundness of the well or any of its connected piping or other system components.

Additional water flow rate and pressure readings were measured and recorded at the same location on 5 November 2025 during purging of the water well for collection of a second sample volume of water for laboratory analysis of *E. coli*. Water from the hose bib was directed away from the house using the Property owner's garden hose to the same on-site location previously approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve initially and one hour later at the end of well purging using a Duro Model MO-10060 flow meter and pressure test gauge.

Field Measurement of Water Quality Parameters

Subsequent to the completion of the water flow rate and pressure test on 29 October 2025, the threaded end of the gate valve located near the base of the water pressure tank in the basement was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially

opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Additional field measurement of water quality parameters occurred at the same location on 5 November 2025 for collection of a second sample volume of water for laboratory analysis of *E. coli*. The threaded end of the gate valve located near the base of the water pressure tank in the basement was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Laboratory Analysis of Water Quality Parameters

After completing the field measurement of water quality parameters on 29 October 2025, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was partially opened to allow a low, consistent flow of water and one water sample designated "8117-SSR-RAW" was collected directly into laboratory-supplied sample containers. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace Analytical Services, LLC (Pace) service center in Syracuse, New York. Pace is a New York State Department of Health (NYSDOH)-approved environmental laboratory. Based on Condition (21) of the Permit, the sample was submitted to Pace for laboratory analysis of the following parameters:

- pH by United States Environmental Protection Agency (USEPA) Method 150.1;
- specific conductance by USEPA Method 120.1;
- turbidity by USEPA Method 180.1;
- *E. coli* by Standard Methods (SM)-9220;
- color by SM-2120B;
- odor by SM-2150B; and
- selected metals by USEPA Method 6010, except mercury by USEPA Method 7470.

FoxPG was contacted by Pace on 30 October 2025 because the sample container collected at the Property on 29 October 2025 was not transported by Pace to their laboratory analytical subcontractor in time for the requested analysis of the sample for *E. coli* to occur within the required analytical holding time (i.e., analysis of the initial sample volume beyond the required holding time would have produced invalid laboratory analytical results). Therefore, a second sample volume of water was collected by FoxPG at the Property on 5 November 2025 solely for analysis of *E. coli*. After completing the field measurement of water quality parameters on 5 November 2025, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was partially opened to allow a low, consistent flow of water and one water sample designated "8117-SSR-RAW-2" was collected directly into a laboratory-supplied sample container. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace service center in Syracuse, New York. This sample was submitted to Pace for laboratory analysis of *E. coli* by SM-9220.

Water Well Survey Report Number THK-001_8117 SSR

8117 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 4 of 7

RESULTS**Owner's Permission and Well Information Request**

A copy of the Well Survey Questionnaire received from the Property owner is presented in Attachment A. The measured latitude and longitude coordinates of the water supply well are N 43.02453° and W -75.96755°, respectively. The measured surface elevation near the water supply well is 789 feet above mean sea level.

Groundwater Level Measurement and Flow Rate Test

Water flow rate, pressure readings, and depth to water level measurements collected during the test on 29 October 2025 are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)	Depth to Water (feet below TOC)	Water Drawdown from Initial Level (feet)
10:45	6.2	38	10.1	0.0
10:49	NM	NM	10.1	0.0
10:51	NM	NM	10.1	0.0
10:55	NM	NM	10.1	0.0
11:00	6.2	41	10.1	0.0
11:10	NM	NM	10.2	0.1
11:15	6.4	42	10.1	0.0
11:20	NM	NM	10.1	0.0
11:25	NM	NM	10.1	0.0
11:30	6.5	42	10.2	0.1
11:35	NM	NM	10.2	0.1
11:40	NM	NM	10.1	0.0
11:45	7.6	41	10.1	0.0

Water flow rate and pressure readings collected during well purging and sample collection on 5 November 2025 are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)
10:10	6.7	45
11:10	6.5	41

Notes:

gpm = gallons per minute

psi = pounds per square inch

TOC = Top Of Casing (of the water well)

NM = Not Measured

Field Measurement of Water Quality Parameters

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank on 29 October 2025 indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected on 29 October 2025 are presented in the following table.

Water Well Survey Report Number THK-001_8117 SSR

8117 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 5 of 7

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
12:45	0.17	7.28	10.9	1.197	+213.7	7.03	-2.04
12:55	0.24	7.29	11.0	1.198	+215.4	6.99	-1.97
13:00	0.32	7.29	11.0	1.198	+216.8	6.98	-1.86
13:05	0.20	7.29	11.0	1.190	+219.1	6.96	-2.34
13:10	0.32	7.27	11.0	1.199	+220.6	6.96	-2.34
13:15	0.32	7.28	11.1	1.200	+223.3	6.94	20.32
13:20	0.26	7.28	11.1	1.200	+225.0	6.93	21.33
13:25	0.19	7.28	11.2	1.200	+226.5	6.92	0.51
13:27	0.19	7.28	11.2	1.200	+227.7	6.93	-2.67

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank on 5 November 2025 indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected on 5 November 2025 are presented in the following table.

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
11:15	0.20	7.12	10.9	1.441	+148.9	6.28	6.01
11:19	0.40	7.10	10.9	1.445	+149.0	6.25	7.14
11:25	0.38	7.10	10.7	1.445	+149.0	6.24	4.10
11:30	0.31	7.11	10.8	1.448	+149.0	6.22	7.63
11:35	0.26	7.11	10.8	1.449	+148.9	6.21	8.42
11:40	0.20	7.11	10.8	1.450	+148.9	6.19	11.80
11:45	NM	7.11	11.0	1.453	+148.8	6.22	16.80

Notes:

gpm = gallons per minute

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential, reported in millivolts (mV)

DO = Dissolved Oxygen, reported in milligrams per liter (mg/L)

NTU = Nephelometric Turbidity Units

NM = Not Measured

Laboratory Analysis of Water Quality Parameters

Copies of the laboratory analytical reports received from Pace are presented in Attachment B.

General water quality parameters and detected metals are presented in the following table.

Water Well Survey Report Number THK-001_8117 SSR

8117 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 6 of 7

Analyte (units)	Concentration	Standard*
Color, True	Not Detected	15
Odor @ 60°C	No Odor	3
<i>E. coli</i>	3	No positive sample
pH	7.80	NS
Specific Conductance (mS/cm)	1.300	NS
Turbidity (NTU)	0.63	1 or 5
Metals (mg/L)		
Barium, Total	0.124	1
Copper, Total	0.0738	0.2
Iron, Total	0.0284 J	0.3
Lead, Total	0.0073 J	0.025
Sodium, Total	52.7	20
Zinc, Total	0.0701 J	2

Notes:

* Standard = the lowest of the New York State Department of Environmental Conservation (NYSDEC) ambient water quality standards or guidance values (AWQS) for groundwater and/or the NYSDOH Maximum Contaminant Levels (MCLs) for public drinking water. Public drinking water standards do not apply to private water wells in New York State, but they are routinely used by health departments as guidance values.

NS = no standard in New York State

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per liter

J = estimated value (detected at a concentration below the analytical reporting limit, but above the method detection limit)

Yellow highlighting indicates an exceedance of its AWQS and/or MCL

FoxPG contacted the Property owner on the same day that FoxPG became aware of the positive analytical result for *E. coli* (13 November 2025) to promptly inform the Property owner of the result and to recommend that the Property owner promptly contact the Onondaga County Health Department for guidance on mitigation of the positive result for *E. coli*.

The metals antimony and thallium were not detected; however, both the analytical reporting limit and the method detection limit for these analytes are greater than the NYSDEC AWQS and/or the NYSDOH MCLs for these metals.

SUMMARY NARRATIVE

The data and information contained in this report serve as a baseline to document information on the well and water system received from the Property owner. They also serve as a baseline to document water flow rate, pressure, and water quality conditions at the Property at the point(s) of measurement and sampling on the date(s) of the field work. Water level data collected from the well during flow rate testing indicate there was no drawdown (lowering) of water levels inside the well at the end of the flow rate test. Visual, olfactory, or other evidence of potential contamination in groundwater from the well at the Property was not observed or detected during field work. Evaluation of laboratory analytical results indicates that all parameters were either not detected or were detected at concentrations below the indicated NYSDEC AWQS and/or NYSDOH MCLs with the exception of the positive detection of *E. coli*, which exceeded the NYSDOH MCL of “no positive sample”, and sodium, which exceeded its NYSDEC AWQS of 20 mg/L.

CERTIFICATION

This report applies solely to the work performed and associated testing results as described above. The results and summary narrative contained in this report are based on currently available data and/or information and are subject to modification if additional data and/or information become available.

It is a violation of the New York State Education Law for any person, unless he or she is acting under the direction of a Licensed Professional Geologist or Licensed Professional Engineer, to alter this report and/or its drawings, figures, tables, and/or attachments in any way. This report was prepared for T.H. Kinsella, Inc. specific to the performance of a baseline water well survey project at the Property, for application to this Property and this project only.

By:

Fox Professional Geology, PLLC



Jon S. Fox, P.G.
Owner and Principal Geologist



Attachment A – Well Survey Questionnaire
Attachment B – Laboratory Analytical Reports

Attachment A
Well Survey Questionnaire

WELL SURVEY QUESTIONNAIRE

1. Well Location: Front Yard
2. Use of well: Only Source of Water
3. Diameter of well: _____
4. Depth of well: _____
5. Date drilled: _____
6. Type of pump: _____
7. Pump/well yield (gpm): _____
8. Well Type (open hole, screened, etc.): _____
9. Water level (depth below top of casing): _____
 - Date when measured: _____
10. Drilling equipment:
 - ☐ Rotary
 - ☐ Compressed air percussion
11. Casing Details:
 - Total length: _____
 - Length below grade: _____
- ☐ Dug
 - ☐ Other (specify): _____
 - Diameter: _____
 - Materials (Steel, plate, etc.): _____

12. Well Yield Test Data:

Water Level	Drawdown	Yield (gpm)	Duration (hr:min)

13. Attach copy of Well Log or complete the Well Log table below:

Depth from Surface	Water Bearing?	Well Diameter (in)	Formation Description

14. Water quality issues: ☐ Yes ☐ No
- If yes, please describe: _____
15. Treatment System: ☐ Yes ☐ No
- If yes, please describe: _____
16. Quantity issues: ☐ Yes ☐ No
- If yes, please describe: _____

Attachment B
Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2568564
Client:	Fox Professional Geology, PLLC 310 Cherry Road Syracuse, NY 13219
ATTN:	Jon Fox
Phone:	(315) 935-6467
Project Name:	MANLIUS
Project Number:	THK-001
Report Date:	11/11/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2568564-01	8117-SSR-RAW	WATER	MANLIUS, NY	10/29/25 13:40	10/29/25

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**Case Narrative (continued)**

Report Submission

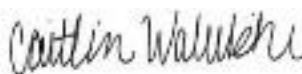
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2568564-01: Due to the expiration of the method required holding time, the requested analysis of E.Coli was cancelled.

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

Authorized Signature:

 Caitlin Waukevich

Title: Technical Director/Representative

Date: 11/11/25

METALS

Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**SAMPLE RESULTS**

Lab ID: L2568564-01

Date Collected: 10/29/25 13:40

Client ID: 8117-SSR-RAW

Date Received: 10/29/25

Sample Location: MANLIUS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Barium, Total	0.124		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Copper, Total	0.0738		mg/l	0.0100	0.0022	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Iron, Total	0.0284	J	mg/l	0.0500	0.0090	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Lead, Total	0.0073	J	mg/l	0.0100	0.0027	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/25 11:59	11/06/25 18:59	EPA 7470A	1,7470A	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Sodium, Total	52.7		mg/l	2.00	0.120	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR
Zinc, Total	0.0701		mg/l	0.0500	0.0021	1	11/04/25 10:56	11/11/25 14:31	EPA 3005A	1,6010D	MJR



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136821-1										
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Barium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Copper, Total	ND		mg/l	0.0100	0.0022	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Iron, Total	ND		mg/l	0.0500	0.0090	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Lead, Total	ND		mg/l	0.0100	0.0027	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Sodium, Total	ND		mg/l	2.00	0.120	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR
Zinc, Total	ND		mg/l	0.0500	0.0021	1	11/04/25 10:56	11/11/25 12:18	1,6010D	MJR

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136823-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/25 11:59	11/06/25 18:09	1,7470A	RDB

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136821-2								
Antimony, Total	101		-		80-120	-		20
Arsenic, Total	101		-		80-120	-		20
Barium, Total	103		-		80-120	-		20
Beryllium, Total	104		-		80-120	-		20
Cadmium, Total	101		-		80-120	-		20
Chromium, Total	103		-		80-120	-		20
Copper, Total	98		-		80-120	-		20
Iron, Total	104		-		80-120	-		20
Lead, Total	103		-		80-120	-		20
Manganese, Total	103		-		80-120	-		20
Nickel, Total	102		-		80-120	-		20
Selenium, Total	98		-		80-120	-		20
Silver, Total	102		-		80-120	-		20
Sodium, Total	104		-		80-120	-		20
Thallium, Total	99		-		80-120	-		20
Zinc, Total	102		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136823-2								
Mercury, Total	99		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136821-3 WG2136821-4 QC Sample: L2558607-57 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.549	110		0.542	108		75-125	1		20
Arsenic, Total	0.091	0.12	0.220	108		0.218	106		75-125	1		20
Barium, Total	0.346	2	2.49	107		2.46	106		75-125	1		20
Beryllium, Total	ND	0.05	0.0536	107		0.0530	106		75-125	1		20
Cadmium, Total	ND	0.053	0.0550	104		0.0541	102		75-125	2		20
Chromium, Total	ND	0.2	0.209	104		0.207	104		75-125	1		20
Copper, Total	ND	0.25	0.259	104		0.256	102		75-125	1		20
Iron, Total	6.75	1	7.80	105		7.78	103		75-125	0		20
Lead, Total	0.0067J	0.53	0.569	107		0.567	107		75-125	0		20
Manganese, Total	1.50	0.5	2.02	104		2.01	102		75-125	0		20
Nickel, Total	ND	0.5	0.523	105		0.516	103		75-125	1		20
Selenium, Total	ND	0.12	0.126	105		0.127	106		75-125	1		20
Silver, Total	ND	0.05	0.0537	107		0.0528	106		75-125	2		20
Sodium, Total	9.03	10	20.0	110		20.0	110		75-125	0		20
Thallium, Total	ND	0.12	0.121	101		0.120	100		75-125	1		20
Zinc, Total	0.097	0.5	0.619	104		0.612	103		75-125	1		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136823-3 WG2136823-4 QC Sample: L2568302-02 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00474	95		0.00480	96		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136823-5 WG2136823-6 QC Sample: L2569087-05 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00500	100		0.00489	98		75-125	2		20



INORGANICS & MISCELLANEOUS

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

SAMPLE RESULTS

Lab ID: L2568564-01
 Client ID: 8117-SSR-RAW
 Sample Location: MANLIUS, NY

Date Collected: 10/29/25 13:40
 Date Received: 10/29/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.63		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO
Odor @ 60 C	NO ODOR		TON	1	1.0	1	-	10/30/25 05:20	121,2150B	CAR
Color, True	ND		A.P.C.U.	5.0	5.0	1	-	10/30/25 05:25	121,2120B	CAR
Specific Conductance	1300		umhos/cm	10	10.	1	-	10/30/25 09:33	4,120.1	DMO
pH (H)	7.80		SU	-	NA	1	-	10/30/25 16:50	121,4500H+-B	AAS



Project Name: MANLIUS

Lab Number: L2568564

Project Number: THK-001

Report Date: 11/11/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2134753-1										
Odor	NO ODOR		TON	1	1.0	1	-	10/30/25 05:20	121,2150B	CAR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2135296-1										
Turbidity	ND		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134856-1								
Specific Conductance	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135126-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135296-2								
Turbidity	94		-		90-110	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568564

Report Date: 11/11/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2134753-2	QC Sample: L2568564-01	Client ID: 8117-SSR-RAW		
Odor	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2134754-1	QC Sample: L2568564-01	Client ID: 8117-SSR-RAW		
Color, True	ND	ND	A.P.C.U.	NC		12
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2134856-2	QC Sample: L2568564-01	Client ID: 8117-SSR-RAW		
Specific Conductance	1300	1300	umhos/cm	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135126-2	QC Sample: L2562289-01	Client ID: DUP Sample		
pH	8.10	8.18	SU	1		5
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135296-3	QC Sample: L2568564-01	Client ID: 8117-SSR-RAW		
Turbidity	0.63	0.65	NTU	3		13

Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2568564-01A	Bacteria Cup unpreserved	NA	NA			Y	Absent		ARCHIVE()
L2568564-01B	Plastic 250ml unpreserved	NA	NA			Y	Absent		COND-120(1),TURB-180(2),COLOR-T-2120(1),PH-4500(.01)
L2568564-01C	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),NA-TI(180)
L2568564-01D	Amber 950ml unpreserved	NA	NA			Y	Absent		ODOR-2150(1)

Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**GLOSSARY****Acronyms**

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568564
Report Date: 11/11/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25**Data Qualifiers**

estimated.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568564**Project Number:** THK-001**Report Date:** 11/11/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **28**Published Date: **07/25/2025**Page **1** of **2****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

MADEP-APH.**Nonpotable Water:** **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1:** Hg. **EPA 245.7:** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

Page 204 of 305



Sample Delivery Group Summary

Pace Job Number : L2568564

Received : 29-OCT-2025

Reviewer : Mohammed Wahed

Account Name : Fox Professional Geology, PLLC

Project Number : THK-001

Project Name : MANLIUS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.2	

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

PACE Analytical
575 Broad Hollow Rd
Melville, NY 11747-
Attn: Giovanna Deloca

PROJECT NAME: L2570091
DATE: 11/06/2025

SAMPLE NUMBER- 961414 SAMPLE ID- 8117-SSR-Raw-2
DATE SAMPLED- 11/05/25
DATE RECEIVED- 11/05/25 SAMPLER- Client
TIME RECEIVED- 1420 DELIVERED BY- Pace

SAMPLE MATRIX- WA
TIME SAMPLED- 1155
RECEIVED BY- EM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		11/05/25		CES	2.6	Degrees C
E-Coli Enumeration	Colilert24	11/05/25	1430	BLO	3	per 100ml

NYSDOH LAB ID NO. 11246

APPROVED BY:


(Terms and Conditions on Reverse Side)

**Barbara L. DuChene
Laboratory Manager**

The analytical results on this sample are representative of the sample received by the Laboratory.



Certified
Environmental
Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: Pace

Batch Number: <u>MS690</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Sample Received on Ice: (Not required for Bact)	☒	☐	_____
8. Preservation OK: (Microbiology See Below)	☐	☐	_____
9. Preservation Not Applicable:(ie: Solid/Sludge, Alk,BOD,TSS,TS,Cl,Fl,SO4,pH,Cond, etc):	☒		_____
10. CES Sample Container(s): If not sure ask client	☐	☒	_____

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC HNO₃ MT NaOH WCSP Ascorbic Acid WC

HCl WCSP Na₂S₂O₃ WC Other _____ Not Available ☐

Microbiology: ☒ Chlorinated Source (Sodium Thiosulfate)
☐ Non-Chlorinated Source (No Sodium Thiosulfate)

Additional Comments/Client Correspondence _____

Sample(s) Received By: EM Sample(s) Logged In By: EQ Login Reviewed By: SLD

DOCUMENT ID: SRCL072522

Approved by: RRB

Date Put In Place: 11/28/23

CERTIFIED ENVIRONMENTAL SERVICES, INC.

TERMS AND CONDITIONS

1. Services completed by Certified Environmental Services, Inc. are done so in general accordance with the environmental services and/or analytical industries recognized methods.
2. Certified Environmental Services, Inc. does not assume any other liabilities other than re-performance of the work if the completed services are determined to be deficient due to the negligence of Certified Environmental Services, Inc. Under no circumstances shall Certified Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
3. Any claim made must be done in writing within thirty (30) days of Certified Environmental Services, Inc.'s written report.
4. Certified Environmental Services, Inc. will not accept any liability in whole or in part as a result of data interpretation by the client.
5. All reports are submitted in writing to our customers only. Certified Environmental Services, Inc. will not be responsible for the accuracy of the contents of any report obtained by anyone other than our Client.
6. Invoices for services rendered are generated periodically as the work is completed. All invoices are due within thirty (30) days of the invoice date. Any discrepancy with an invoice must be reported to the accounts receivable department within fifteen (15) days of the invoice date. All balances over thirty (30) days will be subject to a 1-1/2% finance charge.
7. The terms and conditions set forth herein shall not be altered in any way unless done so in writing and signed by a Manager of Certified Environmental Services, Inc.

Qualifiers (Updated 09.12.2018):

ND-Not Detected at reporting limit	NR-Not Reported	NA-Not Available
H-Regulatory hold time exceeded	R-Duplication outside in-house acceptance limits	
B-Analyte detected in Method Blank	A-Preservation incomplete. Additional acid added to sample prior to analysis.	
DO-Spike Diluted Out	E-Estimate	MDL-Method Detection Limit
S-Spike recovery outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
L-Laboratory Control Sample outside acceptance limits (+ is over – is under, results may be biased high or biased low)		

#- NYS ELAP does not offer accreditation for this parameter.

**For Solid Waste analysis where there is no approved method, this is a laboratory developed method.

F - Filtration not performed within 15 minutes of sample collection as required by cited method.

E - Total Suspended Solids, Estimate. Residue on filter below method requirement of 2.5 mg.

E - Biochemical Oxygen Demand, Estimate. Depletion less than 2.0 as required by cited method.

X- Exceeds maximum contamination limit.



Fox Professional Geology, PLLC

310 Cherry Road
Syracuse, New York 13219
Phone: (315) 935-5467

24 November 2025

WATER WELL SURVEY REPORT

Report Number THK-001_8142 SSR

Report to: T.H. Kinsella, Inc.
P.O. Box 7
Fayetteville, New York 13066

SURVEY LOCATION

8142 Salt Springs Road
Manlius, NY 13104

SCOPE OF WORK

At the request of T.H. Kinsella, Inc., Fox Professional Geology, PLLC (FoxPG) performed the following scope of work based on technical requirements contained in Condition (21) of the current Natural Resource Removal Permit issued to T.H. Kinsella, Inc. by the Town of Manlius (the Permit).

- Contact the owners of specific properties listed in Condition (21) of the Permit to seek permission to perform a baseline water well survey at each property.
- Compilation of general well information provided by the owners.
- Acoustical monitoring of the groundwater elevation within the water supply well at each property.
- Perform a water supply system flow rate test at one outdoor spigot/hose bib at each property over a period of one hour.
- Field observation and measurement of selected water quality parameters at each property including temperature, pH, conductivity, turbidity, dissolved oxygen, color, and odor.
- Collection of one groundwater sample produced from the water supply well at each property for laboratory analysis of selected water quality parameters including pH, specific conductance, turbidity, *E. coli*, color, odor, and metals.

Subsequent sections of this report are specific to the property located at 8142 Salt Springs Road in the Town of Manlius, Onondaga County, New York (the Property). According to the Property owner, three separate structures are serviced by one water supply well at the Property; a residence, a barn, and a veterinary clinic. All testing performed by FoxPG occurred only at the residential structure.

OWNER'S PERMISSION AND WELL INFORMATION REQUEST

Correspondence requesting permission to perform a baseline water well survey and information on the water well was sent to the Property owner via certified mail on 17 September 2025. Initial permission from the Property owner was received by FoxPG on 8 October 2025, followed by receipt of the permission form on 16 October 2025. The Property owner was subsequently contacted via

telephone to describe the scope of work to be performed, obtain permission to perform the described scope of work, and if acceptable, schedule the performance of field work at the Property.

FIELD WORK

Field work was performed at the Property on 30 October 2025 after the Property owner showed FoxPG the locations and layout of the water well and supply system configurations at the residence. FoxPG described the scope of work to be performed and obtained permission from the Property owner to perform the described work. Field work was conducted to the extent practicable based on accessibility and feasibility considerations of the water well and supply system configurations.

Well and Pressure Tank Locations

The approximate location and surface elevation of the water well at the Property were measured using a Garmin ETREX 32X Global Positioning System (GPS) device. The Property owner indicated the top of the water well at the Property is located below the ground surface inside a vault, so the location measured was based on the owner's indication of the well's approximate location. The location of the water system pressure tank was determined through visual inspection.

Groundwater Level Measurement

Groundwater level measurement inside the well did not occur because the top of the well casing was below the ground surface inside a vault and was not readily accessible.

Flow Rate and Pressure Test

Water flow rate and pressure readings were measured and recorded initially and approximately every 15 minutes thereafter at the location approved by the Property owner, which was an exterior hose bib located at the southeastern corner of the residential structure. Water from the hose bib was directed away from the house using the Property owner's garden hose to an on-site location approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve over a period of approximately one hour using a Duro Model MO-10060 flow meter and pressure test gauge. The test was performed for the sole purpose of measuring water flow rate and pressure and did not include any evaluation of any other considerations, including but not limited to any mechanical components and/or the structural soundness of the well or any of its connected piping or other system components.

Field Measurement of Water Quality Parameters

Subsequent to the completion of the water flow rate and pressure test, the threaded end of the gate valve located near the base of the water pressure tank in the basement was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Laboratory Analysis of Water Quality Parameters

After completing the field measurement of water quality parameters, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was partially opened to allow a low, consistent flow of water and one water sample designated "8142-SSR-RAW" was collected directly into laboratory-supplied sample containers. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace Analytical Services, LLC (Pace) service center in Syracuse, New York. Pace is a New York State Department of Health (NYSDOH)-approved environmental laboratory. Based on Condition (21) of the Permit, the sample was submitted to Pace for laboratory analysis of the following parameters:

- pH by United States Environmental Protection Agency (USEPA) Method 150.1;
- specific conductance by USEPA Method 120.1;
- turbidity by USEPA Method 180.1;
- *E. coli* by Standard Methods (SM)-9220;
- color by SM-2120B;
- odor by SM-2150B; and
- selected metals by USEPA Method 6010, except mercury by USEPA Method 7470.

RESULTS

Owner's Permission and Well Information Request

A copy of the Well Survey Questionnaire received from the Property owner is presented in Attachment A. The measured latitude and longitude coordinates of the water supply well's reported location are N 43.02500° and W -75.96381°, respectively. The measured surface elevation near the water supply well is 829 feet above mean sea level.

Groundwater Level Measurement

The well's vault cover was removed, which revealed the presence of many irregular-shaped pieces of foam insulation. FoxPG removed the uppermost pieces of foam insulation by hand but did not find the top of the well. Therefore, groundwater level measurement in the well did not occur because the top of the well casing was not readily accessible. The pieces of foam insulation and the vault cover were replaced to their approximate pre-existing positions.

Flow Rate Test

Water flow rate and pressure readings collected during the test are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)
09:57	7.6	46
10:12	9.2	63
10:27	11.9	69
10:42	11.9	68
10:57	9.5	68

Notes:

gpm = gallons per minute

psi = pounds per square inch

Field Measurement of Water Quality Parameters

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected during field work are presented in the following table.

Water Well Survey Report Number THK-001_8142 SSR

8142 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

24 November 2025

Page 4 of 5

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
11:32	0.57	7.28	9.1	1.189	+208.1	6.72	-2.48
11:37	0.49	7.28	9.1	1.189	+208.4	6.65	-2.44
11:42	0.42	7.28	9.1	1.190	+209.2	6.62	-2.25
11:47	0.40	7.28	9.2	1.190	+209.7	6.61	-2.07
11:52	0.61	7.29	8.7	1.191	+209.9	6.67	-2.50
11:57	0.40	7.29	9.1	1.190	+209.9	6.59	-2.60
12:02	0.36	7.29	9.1	1.190	+210.3	6.70	-1.37

Notes:

gpm = gallons per minute

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential, reported in millivolts (mV)

DO = Dissolved Oxygen, reported in milligrams per liter (mg/L)

NTU = Nephelometric Turbidity Units

Laboratory Analysis of Water Quality Parameters

A copy of the laboratory analytical report received from Pace is presented in Attachment B. General water quality parameters and detected metals are presented in the following table.

Analyte (units)	Concentration	Standard*
Color, True	Not Detected	15
Odor @ 60°C	No Odor	3
<i>E. coli</i>	<1 (Not Detected)	No positive sample
pH	7.31	NS
Specific Conductance (mS/cm)	1.300	NS
Turbidity (NTU)	0.41	1 or 5
Metals (mg/L)		
Barium, Total	0.0929	1
Copper, Total	0.0121	0.2
Iron, Total	0.014 J	0.3
Sodium, Total	25.8	20
Zinc, Total	0.0487 J	2

Notes:

* Standard = the lowest of the New York State Department of Environmental Conservation (NYSDEC) ambient water quality standards or guidance values (AWQS) for groundwater and/or the NYSDOH Maximum Contaminant Levels (MCLs) for public drinking water. Public drinking water standards do not apply to private water wells in New York State, but they are routinely used by health departments as guidance values.

NS = no standard in New York State

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per liter

J = estimated value (detected at a concentration below the analytical reporting limit, but above the method detection limit)

Yellow highlighting indicates an exceedance of its AWQS and/or MCL

The metals antimony and thallium were not detected; however, both the analytical reporting limit and the method detection limit for these analytes are greater than the NYSDEC AWQS and/or the NYSDOH MCLs for these metals.

SUMMARY NARRATIVE

The data and information contained in this report serve as a baseline to document information on the well and water system received from the Property owner. They also serve as a baseline to document water flow rate, pressure, and water quality conditions at the Property at the point(s) of measurement and sampling on the date of the field work. Visual, olfactory, or other evidence of potential contamination in groundwater from the well at the Property was not observed or detected during field work. Evaluation of laboratory analytical results indicates that all parameters were either not detected or were detected at concentrations below the indicated NYSDEC AWQS and/or NYSDOH MCLs with the exception of sodium, which slightly exceeded its NYSDEC AWQS of 20 mg/L.

CERTIFICATION

This report applies solely to the work performed and associated testing results as described above. The results and summary narrative contained in this report are based on currently available data and/or information and are subject to modification if additional data and/or information become available.

It is a violation of the New York State Education Law for any person, unless he or she is acting under the direction of a Licensed Professional Geologist or Licensed Professional Engineer, to alter this report and/or its drawings, figures, tables, and/or attachments in any way. This report was prepared for T.H. Kinsella, Inc. specific to the performance of a baseline water well survey project at the Property, for application to this Property and this project only.

By:

Fox Professional Geology, PLLC



Jon S. Fox, P.G.
Owner and Principal Geologist



Attachment A – Well Survey Questionnaire
Attachment B – Laboratory Analytical Report

Attachment A
Well Survey Questionnaire

WELL SURVEY QUESTIONNAIRE

- | | |
|--|---|
| <p>1. Well Location: <u>Garage Door</u></p> <p>2. Use of well: <u>Residential/Commercial</u></p> <p>3. Diameter of well: <u>Unknown</u></p> <p>4. Depth of well: <u>Unknown</u></p> <p>5. Date drilled: <u>Unknown</u></p> <p>10. Drilling equipment:</p> <p>☐ Rotary <u>Unknown</u></p> <p>☐ Compressed air percussion</p> <p>11. Casing Details: <u>Unknown</u></p> <p>▪ Total length: <u>Unknown</u></p> <p>▪ Length below grade: _____</p> | <p>6. Type of pump: <u>Unknown</u></p> <p>7. Pump/well yield (gpm): <u>Unknown</u></p> <p>8. Well Type (open hole, screened, etc.): <u>Unknown</u></p> <p>9. Water level (depth below top of casing): <u>Unknown</u></p> <p>▪ Date when measured: _____</p> <p>☐ Dug <u>Unknown</u></p> <p>☐ Other (specify): <u>Unknown</u></p> <p>▪ Diameter: <u>Unknown</u></p> <p>▪ Materials (Steel, plate, etc.): _____</p> |
|--|---|

12. Well Yield Test Data:

Water Level	Drawdown	Yield (gpm)	Duration (hr:min)

13. Attach copy of Well Log or complete the Well Log table below:

Depth from Surface	Water Bearing?	Well Diameter (in)	Formation Description

14. Water quality issues: ☐ Yes ☒ No
- If yes, please describe: _____
15. Treatment System: ☐ Yes ☒ No
- If yes, please describe: _____
16. Quantity issues: ☐ Yes ☒ No
- If yes, please describe: _____

Attachment B
Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L2568873
Client:	Fox Professional Geology, PLLC 310 Cherry Road Syracuse, NY 13219
ATTN:	Jon Fox
Phone:	(315) 935-6467
Project Name:	MANLIUS
Project Number:	THK-001
Report Date:	11/10/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2568873-01	8142-SSR-RAW	WATER	MANLIUS, NY	10/30/25 12:10	10/30/25

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**Case Narrative (continued)**

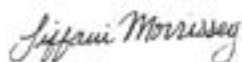
Report Submission

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

The analysis of Escherichia coli was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

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

Authorized Signature:

 Tiffani Morrissey

Title: Technical Director/Representative

Date: 11/10/25

METALS

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**SAMPLE RESULTS**

Lab ID: L2568873-01

Date Collected: 10/30/25 12:10

Client ID: 8142-SSR-RAW

Date Received: 10/30/25

Sample Location: MANLIUS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Barium, Total	0.0929		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Copper, Total	0.0121		mg/l	0.0100	0.0022	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Iron, Total	0.0140	J	mg/l	0.0500	0.0090	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Lead, Total	ND		mg/l	0.0100	0.0027	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/25 21:10	11/08/25 13:24	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Sodium, Total	25.8		mg/l	2.00	0.120	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP
Zinc, Total	0.0487	J	mg/l	0.0500	0.0021	1	11/04/25 15:54	11/10/25 08:32	EPA 3005A	1,6010D	MRP



Project Name: MANLIUS

Lab Number: L2568873

Project Number: THK-001

Report Date: 11/10/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136943-1										
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	11/04/25 21:10	11/07/25 10:02	1,7470A	CME

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2136957-1										
Antimony, Total	ND		mg/l	0.0500	0.0071	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Barium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	0.0021	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Copper, Total	0.0026	J	mg/l	0.0100	0.0022	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Iron, Total	ND		mg/l	0.0500	0.0090	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Lead, Total	ND		mg/l	0.0100	0.0027	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Manganese, Total	ND		mg/l	0.0100	0.0016	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Nickel, Total	ND		mg/l	0.0250	0.0024	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	0.0035	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Silver, Total	ND		mg/l	0.0070	0.0028	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Sodium, Total	ND		mg/l	2.00	0.120	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Thallium, Total	ND		mg/l	0.0200	0.0025	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP
Zinc, Total	ND		mg/l	0.0500	0.0021	1	11/04/25 15:54	11/10/25 07:16	1,6010D	MRP

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136943-2								
Mercury, Total	111		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2136957-2								
Antimony, Total	98		-		80-120	-		20
Arsenic, Total	97		-		80-120	-		20
Barium, Total	100		-		80-120	-		20
Beryllium, Total	100		-		80-120	-		20
Cadmium, Total	98		-		80-120	-		20
Chromium, Total	98		-		80-120	-		20
Copper, Total	100		-		80-120	-		20
Iron, Total	100		-		80-120	-		20
Lead, Total	101		-		80-120	-		20
Manganese, Total	100		-		80-120	-		20
Nickel, Total	99		-		80-120	-		20
Selenium, Total	98		-		80-120	-		20
Silver, Total	99		-		80-120	-		20
Sodium, Total	102		-		80-120	-		20
Thallium, Total	99		-		80-120	-		20
Zinc, Total	99		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136943-3 WG2136943-4 QC Sample: L2568270-04 Client ID: MS Sample												
Mercury, Total	0.00010J	0.005	0.00429	86		0.00586	117		75-125	31	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136957-3 QC Sample: L2568625-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.502	100		-	-		75-125	-		
Arsenic, Total	0.002J	0.12	0.126	105		-	-		75-125	-		
Barium, Total	0.035	2	2.03	100		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0508	102		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0516	97		-	-		75-125	-		
Chromium, Total	0.011	0.2	0.208	99		-	-		75-125	-		
Copper, Total	0.021	0.25	0.274	101		-	-		75-125	-		
Iron, Total	6.91	1	7.87	96		-	-		75-125	-		
Lead, Total	0.004J	0.53	0.547	103		-	-		75-125	-		
Manganese, Total	0.183	0.5	0.679	99		-	-		75-125	-		
Nickel, Total	0.006J	0.5	0.497	99		-	-		75-125	-		
Selenium, Total	ND	0.12	0.0940	78		-	-		75-125	-		
Silver, Total	ND	0.05	0.0513	103		-	-		75-125	-		
Sodium, Total	5.35	10	15.6	102		-	-		75-125	-		
Thallium, Total	ND	0.12	0.121	101		-	-		75-125	-		
Zinc, Total	0.019J	0.5	0.515	103		-	-		75-125	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2136957-4 QC Sample: L2568625-01 Client ID: DUP Sample						
Iron, Total	6.91	6.85	mg/l	1		20
Manganese, Total	0.183	0.185	mg/l	1		20

INORGANICS & MISCELLANEOUS

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

SAMPLE RESULTS

Lab ID: L2568873-01

Client ID: 8142-SSR-RAW

Sample Location: MANLIUS, NY

Date Collected: 10/30/25 12:10

Date Received: 10/30/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.41		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO
Odor @ 60 C	NO ODOR		TON	1	1.0	1	-	10/31/25 06:50	121,2150B	DMO
Color, True	ND		A.P.C.U.	5.0	5.0	1	-	10/31/25 09:50	121,2120B	DMO
Specific Conductance	1300		umhos/cm	10	10.	1	-	10/31/25 09:39	4,120.1	DMO
pH (H)	7.31		SU	-	NA	1	-	11/01/25 10:26	121,4500H+-B	DMO



Project Name: MANLIUS

Lab Number: L2568873

Project Number: THK-001

Report Date: 11/10/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2135296-1										
Turbidity	ND		NTU	0.20	0.20	1	-	10/31/25 06:50	44,180.1	DMO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2135298-1										
Odor	NO ODOR		TON	1	1.0	1	-	10/31/25 06:50	121,2150B	DMO



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135296-2								
Turbidity	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135407-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2135780-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2568873

Report Date: 11/10/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135296-3	QC Sample: L2568564-01	Client ID: DUP Sample		
Turbidity	0.63	0.65	NTU	3		13
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135298-2	QC Sample: L2568873-01	Client ID: 8142-SSR-RAW		
Odor	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135406-1	QC Sample: L2568873-01	Client ID: 8142-SSR-RAW		
Color, True	ND	ND	A.P.C.U.	NC		12
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135407-2	QC Sample: L2568873-01	Client ID: 8142-SSR-RAW		
Specific Conductance	1300	1300	umhos/cm	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2135780-2	QC Sample: L2568591-01	Client ID: DUP Sample		
pH	7.44	7.48	SU	1		5

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2568873-01A	Plastic 250ml unpreserved	NA	NA			Y	Absent		TURB-180(2),COND-120(1),PH-4500(.01)
L2568873-01B	Plastic 250ml HNO3 preserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180)
L2568873-01C	Amber 950ml unpreserved	NA	NA			Y	Absent		COLOR-T-2120(1),ODOR-2150(1)

Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2568873
Report Date: 11/10/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25**Data Qualifiers**

estimated.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2568873**Project Number:** THK-001**Report Date:** 11/10/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **28**Published Date: **07/25/2025**Page **1** of **2****Certification Information****The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581****EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

MADEP-APH.**Nonpotable Water:** **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Nonpotable Water: **EPA RSK-175 Dissolved Gases****The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)****The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1:** Hg. **EPA 245.7:** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

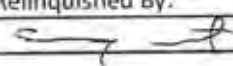
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

[illegible]

		Subcontract Chain of Custody Certified Environmental Services 7280 Caswell Street North Syracuse, NY 13210			Pace Job Number L2568873			
		Page 1						
Client Information		Project Information			Regulatory Requirements/Report Limits			
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com		Project Location: NY Project Manager: Melissa Deyo			State/Federal Program: Regulatory Criteria: Report to MDL			
		Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables (Level 4)						
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2568873 Report to include Method and/or Regulatory required batch QC								
Additional Comments:								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2568873-01	8142-SSR-RAW	10-30-25 12:10	WATER	E. Coll			0
								4.2°C
Relinquished By: 					Date/Time:	Received By:		Date/Time:
					10/30/25 1450	Emily McMenis 		10/30/25 1450
Form No: AL_subcoc								



Sample Delivery Group Summary

Pace Job Number : L2568873

Received : 30-OCT-2025

Reviewer : Maile Kolton

Account Name : Fox Professional Geology, PLLC

Project Number : THK-001

Project Name : MANLIUS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.6	

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

PACE Analytical
575 Broad Hollow Rd
Melville, NY 11747-
Attn: Giovanna Deloca

PROJECT NAME: L2568873
DATE: 10/31/2025

SAMPLE NUMBER- 960884 SAMPLE ID- 8142-SSR-Raw
DATE SAMPLED- 10/30/25
DATE RECEIVED- 10/30/25 SAMPLER- Client
TIME RECEIVED- 1450 DELIVERED BY- Pace

SAMPLE MATRIX- WW
TIME SAMPLED- 1210
RECEIVED BY- EM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
Sample Receipt Temperature		10/30/25		CES	4.2	Degrees C
E-Coli Enumeration	Colilert24	10/30/25	1455	BLO	< 1	per 100ml

NYSDOH LAB ID NO. 11246

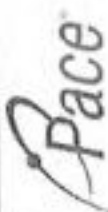
APPROVED BY:


(Terms and Conditions on Reverse Side)

Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample received by the Laboratory.

M5528

		Subcontract Chain of Custody Certified Environmental Services 7280 Caswell Street North Syracuse, NY 13210		Pace Job Number L2568873				
Client Information Client: Pace Analytical Labs Address: Eight Wakeup Drive Westborough, MA 01581-1019 Report To: west_subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com		Project Information Project Location: NY Project Manager: Melissa Deyo Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables (Level 4)		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria: Report to MDL				
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2568873 Report to include Method and/or Regulatory required batch QC								
Additional Comments:								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2568873-01	8142-SSR-RAW 96884	10-30-25 12:10	WATER	E. Coli			0
Relinquished By: 			Date/Time: 10/30/25 1450		Received By: Emily McManis		Date/Time: 10/30/25 1450	
Form No: AL_subcoc								



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: Pace

Batch Number: <u>M5528</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Sample Received on Ice: (Not required for Bact)	☒	☐	_____
8. Preservation OK: (Microbiology See Below)	☐	☐	_____
9. Preservation Not Applicable:(ie: Solid/Sludge, Alk,BOD,TSS,TS,Cl,Fl,SO4,pH,Cond, etc):			☒
10. CES Sample Container(s): If not sure ask client	☐	☒	_____

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC HNO₃ MT NaOH WCSP Ascorbic Acid WC
HCl WCSP Na₂S₂O₃ WC Other _____ Not Available ☐

Microbiology: ☒ Chlorinated Source (Sodium Thiosulfate)
☐ Non-Chlorinated Source (No Sodium Thiosulfate)

Additional Comments/Client Correspondence _____

Sample(s) Received By: EM Sample(s) Logged In By: RD Login Reviewed By: BCD

DOCUMENT ID: SRCL072522

Approved by: RRB

Date Put In Place: 11/28/23

CERTIFIED ENVIRONMENTAL SERVICES, INC.

TERMS AND CONDITIONS

1. Services completed by Certified Environmental Services, Inc. are done so in general accordance with the environmental services and/or analytical industries recognized methods.
2. Certified Environmental Services, Inc. does not assume any other liabilities other than re-performance of the work if the completed services are determined to be deficient due to the negligence of Certified Environmental Services, Inc. Under no circumstances shall Certified Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
3. Any claim made must be done in writing within thirty (30) days of Certified Environmental Services, Inc.'s written report.
4. Certified Environmental Services, Inc. will not accept any liability in whole or in part as a result of data interpretation by the client.
5. All reports are submitted in writing to our customers only. Certified Environmental Services, Inc. will not be responsible for the accuracy of the contents of any report obtained by anyone other than our Client.
6. Invoices for services rendered are generated periodically as the work is completed. All invoices are due within thirty (30) days of the invoice date. Any discrepancy with an invoice must be reported to the accounts receivable department within fifteen (15) days of the invoice date. All balances over thirty (30) days will be subject to a 1-1/2% finance charge.
7. The terms and conditions set forth herein shall not be altered in any way unless done so in writing and signed by a Manager of Certified Environmental Services, Inc.

Qualifiers (Updated 09.12.2018):

ND-Not Detected at reporting limit	NR-Not Reported	NA-Not Available
H-Regulatory hold time exceeded	R-Duplication outside in-house acceptance limits	
B-Analyte detected in Method Blank	A-Preservation incomplete. Additional acid added to sample prior to analysis.	
DO-Spike Diluted Out	E-Estimate	MDL-Method Detection Limit
S-Spike recovery outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
L-Laboratory Control Sample outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
#- NYS ELAP does not offer accreditation for this parameter.		
**For Solid Waste analysis where there is no approved method, this is a laboratory developed method.		
F - Filtration not performed within 15 minutes of sample collection as required by cited method.		
E - Total Suspended Solids, Estimate. Residue on filter below method requirement of 2.5 mg.		
E - Biochemical Oxygen Demand, Estimate. Depletion less than 2.0 as required by cited method.		
X- Exceeds maximum contamination limit.		



Fox Professional Geology, PLLC

310 Cherry Road
Syracuse, New York 13219
Phone: (315) 935-5467

21 November 2025

WATER WELL SURVEY REPORT

Report Number THK-001_8171 SSR

Report to: T.H. Kinsella, Inc.
P.O. Box 7
Fayetteville, New York 13066

SURVEY LOCATION

8171 Salt Springs Road
Manlius, NY 13104

SCOPE OF WORK

At the request of T.H. Kinsella, Inc., Fox Professional Geology, PLLC (FoxPG) performed the following scope of work based on technical requirements contained in Condition (21) of the current Natural Resource Removal Permit issued to T.H. Kinsella, Inc. by the Town of Manlius (the Permit).

- Contact the owners of specific properties listed in Condition (21) of the Permit to seek permission to perform a baseline water well survey at each property.
- Compilation of general well information provided by the owners.
- Acoustical monitoring of the groundwater elevation within the water supply well at each property.
- Perform a water supply system flow rate test at one outdoor spigot/hose bib at each property over a period of one hour.
- Field observation and measurement of selected water quality parameters at each property including temperature, pH, conductivity, turbidity, dissolved oxygen, color, and odor.
- Collection of one groundwater sample produced from the water supply well at each property for laboratory analysis of selected water quality parameters including pH, specific conductance, turbidity, *E. coli*, color, odor, and metals.

Subsequent sections of this report are specific to the property located at 8171 Salt Springs Road in the Town of Manlius, Onondaga County, New York (the Property).

OWNER'S PERMISSION AND WELL INFORMATION REQUEST

Correspondence requesting permission to perform a baseline water well survey and information on the water well was sent to the Property owner via certified mail on 17 September 2025. Permission from the Property owner was received by FoxPG on 13 October 2025. The Property owner was subsequently contacted to describe the scope of work to be performed, obtain permission to perform the described scope of work, and if acceptable, schedule the performance of field work at the Property.

FIELD WORK

Field work was performed at the Property on 27 October 2025 after the Property owner showed FoxPG the locations and layout of the water well and supply system configurations. FoxPG described the scope of work to be performed and obtained permission from the Property owner to perform the described work. Field work was conducted to the extent practicable based on accessibility and feasibility considerations of the water well and supply system configurations.

Well and Pressure Tank Locations

The approximate location and surface elevation of the water well at the Property were measured using a Garmin ETREX 32X Global Positioning System (GPS) device. The top of the water well at the Property is buried below the ground surface, so the location measured was based on the owner's indication of the well's approximate location. The location of the water system pressure tank was determined through visual inspection.

Groundwater Level Measurement

Groundwater level measurement inside the well did not occur because the top of the well casing was buried below the ground surface.

Flow Rate and Pressure Test

Water flow rate and pressure readings were measured and recorded initially and approximately every 15 minutes thereafter at the location approved by the Property owner, which was an exterior hose bib located on the north side of the residence. Water from the hose bib was directed away from the house using the Property owner's garden hose to an on-site location approved by the Property owner. The hose bib's valve was fully opened and data were measured at the valve over a period of approximately one hour using a Duro Model MO-10060 flow meter and pressure test gauge. The test was performed for the sole purpose of measuring water flow rate and pressure and did not include any evaluation of any other considerations, including but not limited to any mechanical components and/or the structural soundness of the well or any of its connected piping or other system components.

Field Measurement of Water Quality Parameters

Subsequent to the completion of the flow rate and pressure test, the threaded end of the gate valve located near the base of the water pressure tank was cleaned using a plastic bristle brush and a solution of phosphate-free detergent (Simple Green®) and potable water, followed by a rinse with deionized water. The gate valve was partially opened to allow water to flow for approximately one minute, and then the valve was closed. A new nylon/vinyl fitting and new vinyl tubing were connected to the gate valve to allow collection of water quality parameter data using a YSI Model ProDSS-4 multimeter with a flow-through cell. The gate valve was partially opened to allow water to flow through the multimeter/flow cell system and water quality data and flow rate were measured and recorded initially and periodically thereafter. Water quality parameter data were measured and recorded until parameters showed minimal change or for a period of at least 30 minutes. Visual and olfactory examination of water was performed and water flow rate was measured periodically using a 500-milliliter container and a timer.

Laboratory Analysis of Water Quality Parameters

After completing the field measurement of water quality parameters, the fitting and tubing were removed from the pressure tank gate valve. The gate valve was opened to allow a low, consistent flow of water and one water sample designated "8171-SSR-RAW" was collected directly into

Water Well Survey Report Number THK-001_8171 SSR

8171 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

21 November 2025

Page 3 of 5

laboratory-supplied sample containers. The water sample was placed into a pre-chilled cooler and transported by FoxPG under proper chain of custody to the Pace Analytical Services, LLC (Pace) service center in Syracuse, New York. Pace is a New York State Department of Health-approved environmental laboratory. Based on Condition (21) of the Permit, the sample was submitted to Pace for laboratory analysis of the following parameters:

- pH by United States Environmental Protection Agency (USEPA) Method 150.1;
- specific conductance by USEPA Method 120.1;
- turbidity by USEPA Method 180.1;
- *E. coli* by Standard Methods (SM)-9220;
- color by SM-2120B;
- odor by SM-2150B; and
- selected metals by USEPA Method 6010, except mercury by USEPA Method 7470.

RESULTS**Owner's Permission and Well Information Request**

A copy of the Well Survey Questionnaire received from the Property owner is presented in Attachment A. The measured latitude and longitude coordinates of the water supply well's reported location are N 43.02618° and W -75.96162°, respectively. The measured surface elevation near the water supply well is 824 feet above mean sea level.

Groundwater Level Measurement

Groundwater level measurement in the well did not occur because the top of the well casing was buried below the ground surface.

Flow Rate Test

Pressure and flow rate readings collected during the test are presented in the following table.

Time	Flow Rate (gpm)	Pressure (psi)
09:55	6.0	60
10:10	6.2	62
10:25	6.2	67
10:40	6.3	67
10:55	6.3	67

Notes:

gpm = gallons per minute

psi = pounds per square inch

Field Measurement of Water Quality Parameters

Visual and olfactory inspection of water flowing from the gate valve near the bottom of the pressure tank indicated the water appeared clear with no noticeable odor, color, sheen, or other evidence of a potential water quality issue. Additional water quality parameter data collected during field work are presented in the following table.

Water Well Survey Report Number THK-001_8171 SSR

8171 Salt Springs Road - Manlius, New York

Fox Professional Geology, PLLC

21 November 2025

Page 4 of 5

Time	Flow Rate (gpm)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
12:37	0.37	7.24	10.1	1.205	+174.9	6.43	-1.38
12:47	0.35	7.24	10.2	1.205	+178.3	6.48	-2.12
12:57	0.40	7.25	9.2	1.207	+182.7	6.44	-2.14
13:07	0.37	7.25	9.8	1.205	+185.9	6.39	-2.01
13:17	0.35	7.24	9.5	1.205	+188.8	6.39	-2.04

Notes:

gpm = gallons per minute

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential, reported in millivolts (mV)

DO = Dissolved Oxygen, reported in milligrams per liter (mg/L)

NTU = Nephelometric Turbidity Units

Laboratory Analysis of Water Quality Parameters

A copy of the laboratory analytical report received from Pace is presented in Attachment B. General water quality parameters and detected metals are presented in the following table.

Analyte (units)	Concentration	Standard*
Color, True	None	15
Odor @ 60°C	No Odor	3
<i>E. coli</i>	<1 (not detected)	No positive sample
pH	7.37	NS
Specific Conductance (mS/cm)	1.300	NS
Turbidity (NTU)	0.32	1 or 5
Metals (mg/L)		
Barium, Total	0.0835	1
Copper, Total	0.0343	0.2
Sodium, Total	24.5	20
Zinc, Total	0.0506	2

Notes:

* Standard = the lowest of the New York State Department of Environmental Conservation (NYSDEC) ambient water quality standards or guidance values (AWQS) for groundwater and/or the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs) for public drinking water. Public drinking water standards do not apply to private water wells in New York State, but they are routinely used by health departments as guidance values.

NS = no standard in New York State

°C = degrees Celsius

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Units

mg/L = milligrams per liter

Yellow highlighting indicates an exceedance of its AWQS and/or MCL

The metals antimony and thallium were not detected; however, both the reporting limit and the method detection limit for these elements are greater than the NYSDEC AWQS and/or the NYSDOH MCLs for these metals.

SUMMARY NARRATIVE

The data and information contained in this report serve as a baseline to document information on the well and water system received from the Property owner. It also serves as a baseline to document water flow rate, pressure, and water quality conditions at the Property at the point(s) of measurement and sampling on the date of the field work. Visual, olfactory, or other evidence of potential contamination in groundwater from the well at the Property was not observed or detected during field work. Evaluation of laboratory analytical results indicates that all parameters were either not detected or were detected at concentrations below the indicated NYSDEC AWQS and/or NYSDOH MCLs with the exception of sodium, which slightly exceeded its NYSDEC AWQS of 20 mg/L.

CERTIFICATION

This report applies solely to the work performed and associated testing results as described above. The results and summary narrative contained in this report are based on currently available data and/or information and are subject to modification if additional data and/or information become available.

It is a violation of the New York State Education Law for any person, unless he or she is acting under the direction of a Licensed Professional Geologist or Licensed Professional Engineer, to alter this report and/or its drawings, figures, tables, and/or attachments in any way. This report was prepared for T.H. Kinsella, Inc. specific to the performance of a baseline water well survey project at the Property, for application to this Property and this project only.

By:

Fox Professional Geology, PLLC



Jon S. Fox, P.G.
Owner and Principal Geologist



Attachment A – Well Survey Questionnaire
Attachment B – Laboratory Analytical Report

Attachment A
Well Survey Questionnaire

WELL SURVEY QUESTIONNAIRE

1. Well Location: N.E. of Kitchen
2. Use of well: yes, Primary and only Source.
3. Diameter of well: UKN
4. Depth of well: 143 ft
5. Date drilled: UKN
6. Type of pump: Unknown (UKN)
7. Pump/well yield (gpm): UKN
8. Well Type (open hole, screened, etc.): UKN
9. Water level (depth below top of casing): UKN
 - Date when measured: UKN
10. Drilling equipment:
 - ☐ Rotary
 - ☐ Compressed air percussion
11. Casing Details: ?
 - Total length: _____
 - Length below grade: _____
 - Diameter: _____
 - Materials (Steel, plate, etc.): Unknown

12. Well Yield Test Data: ?

Water Level	Drawdown	Yield (gpm)	Duration (hr:min)
<u>Unknown.</u>			

13. Attach copy of Well Log or complete the Well Log table below: ?

Depth from Surface	Water Bearing?	Well Diameter (in)	Formation Description
<u>Unknown</u>			

14. Water quality issues: ☐ Yes ☒ No

▪ If yes, please describe: _____

15. Treatment System: ☒ Yes ☐ No

▪ If yes, please describe: Filter & Softner. NO for drinking.

16. Quantity issues: ☐ Yes ☒ No

▪ If yes, please describe: _____

Attachment B
Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L2567950
Client:	Fox Professional Geology, PLLC 310 Cherry Road Syracuse, NY 13219
ATTN:	Jon Fox
Phone:	(315) 935-6467
Project Name:	MANLIUS
Project Number:	THK-001
Report Date:	11/11/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2567950-01	8171-SSR-RAW	WATER	MANLIUS, NY	10/27/25 13:25	10/27/25

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25**Case Narrative (continued)****Report Revision**

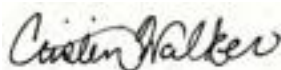
November 11, 2025: The Client ID was amended on L2567950-01.

Report Submission

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

The analysis of E. Coli was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

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

Authorized Signature: Cristin Walker**Title:** Technical Director/Representative**Date:** 11/11/25

METALS

Project Name: MANLIUS

Lab Number: L2567950

Project Number: THK-001

Report Date: 11/11/25

SAMPLE RESULTS

Lab ID: L2567950-01
 Client ID: 8171-SSR-RAW
 Sample Location: MANLIUS, NY

Date Collected: 10/27/25 13:25
 Date Received: 10/27/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Barium, Total	0.0835		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Copper, Total	0.0343		mg/l	0.0100	0.0022	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/31/25 12:06	11/01/25 19:40	EPA 7470A	1,7470A	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Sodium, Total	24.5		mg/l	2.00	0.120	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS
Zinc, Total	0.0506		mg/l	0.0500	0.0021	1	10/31/25 10:31	11/06/25 15:09	EPA 3005A	1,6010D	LRS



Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2135403-1										
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Sodium, Total	ND		mg/l	2.00	0.120	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/31/25 10:31	11/04/25 20:21	1,6010D	ZPC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2135421-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/31/25 12:06	11/01/25 18:04	1,7470A	RDB

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2135403-2								
Antimony, Total	100		-		80-120	-		20
Arsenic, Total	106		-		80-120	-		20
Barium, Total	107		-		80-120	-		20
Beryllium, Total	104		-		80-120	-		20
Cadmium, Total	101		-		80-120	-		20
Chromium, Total	104		-		80-120	-		20
Copper, Total	103		-		80-120	-		20
Iron, Total	105		-		80-120	-		20
Lead, Total	105		-		80-120	-		20
Manganese, Total	106		-		80-120	-		20
Nickel, Total	102		-		80-120	-		20
Selenium, Total	102		-		80-120	-		20
Silver, Total	106		-		80-120	-		20
Sodium, Total	106		-		80-120	-		20
Thallium, Total	103		-		80-120	-		20
Zinc, Total	102		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2135421-2								
Mercury, Total	99		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135403-3 QC Sample: L2567625-04 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.495	99		-	-		75-125	-		
Arsenic, Total	0.006J	0.12	0.137	114		-	-		75-125	-		
Barium, Total	0.053	2	2.13	104		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0500	100		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0541	102		-	-		75-125	-		
Chromium, Total	0.296	0.2	0.493	98		-	-		75-125	-		
Copper, Total	0.021	0.25	0.285	106		-	-		75-125	-		
Iron, Total	0.293	1	1.29	100		-	-		75-125	-		
Lead, Total	0.010J	0.53	0.563	106		-	-		75-125	-		
Manganese, Total	0.0240	0.5	0.522	100		-	-		75-125	-		
Nickel, Total	0.067	0.5	0.589	104		-	-		75-125	-		
Selenium, Total	ND	0.12	0.136	113		-	-		75-125	-		
Silver, Total	ND	0.05	0.0521	104		-	-		75-125	-		
Sodium, Total	213.	10	216	30	Q	-	-		75-125	-		
Thallium, Total	ND	0.12	0.124	103		-	-		75-125	-		
Zinc, Total	0.024J	0.5	0.536	107		-	-		75-125	-		

Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135421-3 QC Sample: L2567387-19 Client ID: MS Sample

Mercury, Total	ND	0.005	0.00465	93		-	-		75-125	-		
----------------	----	-------	---------	----	--	---	---	--	--------	---	--	--

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135403-4 QC Sample: L2567625-04 Client ID: DUP Sample						
Iron, Total	0.293	0.342	mg/l	15		20
Manganese, Total	0.0240	0.0250	mg/l	4		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135403-4 QC Sample: L2567625-04 Client ID: DUP Sample						
Sodium, Total	213.	207	mg/l	3		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2135421-4 QC Sample: L2567387-19 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

SAMPLE RESULTS

Lab ID: L2567950-01

Client ID: 8171-SSR-RAW

Sample Location: MANLIUS, NY

Date Collected: 10/27/25 13:25

Date Received: 10/27/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.32		NTU	0.20	0.20	1	-	10/28/25 21:18	44,180.1	AAS
Odor @ 60 C	NO ODOR		TON	1	1.0	1	-	10/28/25 04:10	121,2150B	CAR
Color, True	ND		A.P.C.U.	5.0	5.0	1	-	10/28/25 08:10	121,2120B	CAR
Specific Conductance	1300		umhos/cm	10	10.	1	-	10/28/25 03:41	4,120.1	CAR
pH (H)	7.37		SU	-	NA	1	-	10/28/25 21:21	121,4500H+-B	AAS



Project Name: MANLIUS

Lab Number: L2567950

Project Number: THK-001

Report Date: 11/11/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2133512-1										
Odor	NO ODOR		TON	1	1.0	1	-	10/28/25 04:10	121,2150B	CAR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2134027-1										
Turbidity	ND		NTU	0.20	0.20	1	-	10/28/25 21:18	44,180.1	AAS



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2133508-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134027-2								
Turbidity	108		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134029-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: MANLIUS

Project Number: THK-001

Lab Number: L2567950

Report Date: 11/11/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2133508-2	QC Sample: L2567852-01	Client ID: DUP Sample		
Specific Conductance	620	620	umhos/cm	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2133512-2	QC Sample: L2567950-01	Client ID: 8171-SSR-RAW		
Odor	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2133604-1	QC Sample: L2567950-01	Client ID: 8171-SSR-RAW		
Color, True	ND	ND	A.P.C.U.	NC		12
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2134027-3	QC Sample: L2568083-01	Client ID: DUP Sample		
Turbidity	0.21	0.23	NTU	9		13
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2134029-2	QC Sample: L2568083-01	Client ID: DUP Sample		
pH	8.22	8.26	SU	0		5

Project Name: MANLIUS
Project Number: THK-001

Serial_No:11112509:46
Lab Number: L2567950
Report Date: 11/11/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2567950-01A	Plastic 250ml unpreserved	NA	NA			Y	Absent		COND-120(1),TURB-180(2),PH-4500(.01)
L2567950-01B	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),HG-T(28),MN-TI(180),FE-TI(180),NA-TI(180),CD-TI(180)
L2567950-01C	Amber 950ml unpreserved	NA	NA			Y	Absent		COLOR-T-2120(1),ODOR-2150(1)

Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25**GLOSSARY****Acronyms**

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers



Project Name: MANLIUS**Lab Number:** L2567950**Project Number:** THK-001**Report Date:** 11/11/25**Data Qualifiers**

estimated.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: MANLIUS
Project Number: THK-001

Lab Number: L2567950
Report Date: 11/11/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **28**Published Date: **07/25/2025**Page **1** of **2****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

MADEP-APH.**Nonpotable Water:** **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1:** Hg. **EPA 245.7:** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

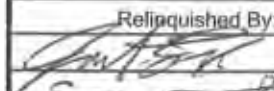
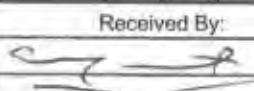
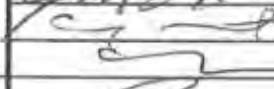
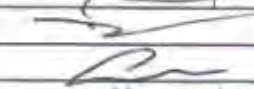
Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

		NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 10/28/25		ALPHA Job # L2567950			
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Mantins</u> Project Location: <u>Mantins, NY</u> Project # <u>THK-001</u> (Use Project name as Project #) ☐ Project Manager: <u>Jon Fox</u> ALPHAQuote #: <u>00191642</u> Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:				Deliverables ☒ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other				Billing Information ☒ Same as Client Info PO #	
Client Information Client: <u>FoxPG</u> Address: <u>310 Cherry Rd.</u> <u>Syracuse, NY 13219</u> Phone: <u>315-935-5467</u> Fax: Email: <u>jon.fox@jonfoxpg.com</u>				Regulatory Requirement ☒ NY TOGS ☐ NY Part 375 ☒ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:					
Other project specific requirements/comments: <u>Only report the specific metals listed below: *</u> <u>Please specify Metals or IAL</u> <u>Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se,</u> <u>Ag, Na, Tl, Zn</u>						ANALYSIS E. Coli. pH/Cond./Turbidity Metals * Odor and Color				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)			
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Sample Specific Comments			
67950-01		8171-SSR-RAW		10/27/2025 13:25		GW		JSF					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved, BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time					
				10/27/25 1448				10/27/25 1448					
				10/27/25 1700				10/27/25 1815					
				10/28/25 0700				10/28/25 0100					



Sample Delivery Group Summary

Pace Job Number : L2567950

Received : 27-OCT-2025

Reviewer : Matthew Bianculli

Account Name : Fox Professional Geology, PLLC

Project Number : THK-001

Project Name : MANLIUS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.4	

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

PACE Analytical
575 Broad Hollow Rd
Melville, NY 11747-
Attn: Giovanna Deloca

PROJECT NAME: L2567950
DATE: 11/10/2025

SAMPLE NUMBER- 960516 SAMPLE ID- 8171-SSR-RAW
DATE SAMPLED- 10/27/25
DATE RECEIVED- 10/27/25 SAMPLER- Client
TIME RECEIVED- 1549 DELIVERED BY- Casey

SAMPLE MATRIX- WA
TIME SAMPLED- 1325
RECEIVED BY- EM
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		10/27/25		CES	5.0 Degrees C
E-Coli Enumeration	Colilert24	10/27/25	1600	BLO	< 1 per 100ml

Note: Revised report for Sample ID. This report replaces the report issued on 10/29/2025.

NYSDOH LAB ID NO. 11246

APPROVED BY:


(Terms and Conditions on Reverse Side)

Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample received by the Laboratory.

		Subcontract Chain of Custody Certified Environmental Services 7280 Caswell Street North Syracuse, NY 13210		MS424		Pace Job Number L2567950	
Client Information Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.com Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com		Project Information Project Location: NY Project Manager: Melissa Deyo Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables (Level 4) Report to MDL		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria:			
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2567950 Report to include Method and/or Regulatory required batch QC Additional Comments:							
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC
	L2567950-01	8174-SSR-RAW 960516	10-27-25 13:25	WATER	E. Coli		
							Container Count 0
Relinquished By:			Date/Time:		Received By:		Date/Time:
							10-27-25 15:49
Form No: AL_subcoc							

barb@certifiedenvironmental.com

From: Melissa Deyo <Melissa.Deyo@pacelabs.com>
Sent: Friday, November 7, 2025 3:35 PM
To: Barb Duchene
Subject: Report Revision
Attachments: L2567950_sub.pdf

Hi Barb,

Can you update the sample ID on this report to 8171-SSR-RAW and issue a revised report?

Please see the following link for sample receipt Thanksgiving Day Holiday exceptions for PACE Westborough & Mansfield:  [Thanksgiving 2025.pdf](#)

Committed to you,

Melissa Deyo

Project Manager 2, Westborough, MA

Pace Analytical Services

Main: 508-898-9220 | Direct: 716-427-5229 | www.pacelabs.com

Rapid Response Line | (877) 859-7778



NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete any copies.

 Please consider the environment before printing this email



Certified
Environmental
Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: Pace

Batch Number: <u>MS424</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Sample Received on Ice: (Not required for Bact)	☒	☐	_____
8. Preservation OK: (Microbiology See Below)	☐	☐	_____
9. Preservation Not Applicable:(ie: Solid/Sludge, Alk,BOD,TSS,TS,Cl,F1,SO4,pH,Cond, etc):	☒		
10. CES Sample Container(s): If not sure ask client	☐	☒	_____

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC HNO₃ MT NaOH WCSP Ascorbic Acid WC
HCl WCSP Na₂S₂O₃ WC Other _____ Not Available ☐

Microbiology: ☒ Chlorinated Source (Sodium Thiosulfate)
☐ Non-Chlorinated Source (No Sodium Thiosulfate)

Additional Comments/Client Correspondence _____

Sample(s) Received By: EM Sample(s) Logged In By: RS Login Reviewed By: BS

DOCUMENT ID: SRCL072522

Approved by: RRB

Date Put In Place: 11/28/23

CERTIFIED ENVIRONMENTAL SERVICES, INC.

TERMS AND CONDITIONS

1. Services completed by Certified Environmental Services, Inc. are done so in general accordance with the environmental services and/or analytical industries recognized methods.
2. Certified Environmental Services, Inc. does not assume any other liabilities other than re-performance of the work if the completed services are determined to be deficient due to the negligence of Certified Environmental Services, Inc. Under no circumstances shall Certified Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
3. Any claim made must be done in writing within thirty (30) days of Certified Environmental Services, Inc.'s written report.
4. Certified Environmental Services, Inc. will not accept any liability in whole or in part as a result of data interpretation by the client.
5. All reports are submitted in writing to our customers only. Certified Environmental Services, Inc. will not be responsible for the accuracy of the contents of any report obtained by anyone other than our Client.
6. Invoices for services rendered are generated periodically as the work is completed. All invoices are due within thirty (30) days of the invoice date. Any discrepancy with an invoice must be reported to the accounts receivable department within fifteen (15) days of the invoice date. All balances over thirty (30) days will be subject to a 1-1/2% finance charge.
7. The terms and conditions set forth herein shall not be altered in any way unless done so in writing and signed by a Manager of Certified Environmental Services, Inc.

Qualifiers (Updated 09.12.2018):

ND-Not Detected at reporting limit	NR-Not Reported	NA-Not Available
H-Regulatory hold time exceeded	R-Duplication outside in-house acceptance limits	
B-Analyte detected in Method Blank	A-Preservation incomplete. Additional acid added to sample prior to analysis.	
DO-Spike Diluted Out	E-Estimate	MDL-Method Detection Limit
S-Spike recovery outside acceptance limits (+ is over – is under, results may be biased high or biased low)		
L-Laboratory Control Sample outside acceptance limits (+ is over – is under, results may be biased high or biased low)		

#- NYS ELAP does not offer accreditation for this parameter.

**For Solid Waste analysis where there is no approved method, this is a laboratory developed method.

F - Filtration not performed within 15 minutes of sample collection as required by cited method.

E - Total Suspended Solids, Estimate. Residue on filter below method requirement of 2.5 mg.

E - Biochemical Oxygen Demand, Estimate. Depletion less than 2.0 as required by cited method.

X- Exceeds maximum contamination limit.

Section F

Noise Readings

2025 Noise reading and improvements-

This year a seismograph monitor was installed at the Puetzer house located at 8037 Changing Seasons Circle Fayetteville. The main purpose of this is to record vibrations from blasting and sound but gets triggered to record because of the ground vibrations, not because the sound alone was high enough to trigger the machine. It can be triggered and record very loud sounds. 129 dB(L). It has only been triggered a couple of times by sound alone, one time they suspect was a lawn mower, and another time it was caused by 40 mph winds.

2024 Noise readings and improvements-

No changes in equipment have taken place.

2023 Noise readings and improvements-

No changes in equipment have taken place.

2022 Noise readings and improvements-

Official noise readings have not been taken recently. We continue to use best management practices for noise reduction.

2021 Noise readings and improvements-

New mobile equipment continues to improve noise emissions.

2020 Noise readings and improvements-

No changes in equipment have taken place.

2019 Noise reading and improvements-

Official noise readings have not been taken recently. We continue to use best management practices for noise reduction.

2017-2018 Noise readings and improvements-

Official noise readings have not been taken recently. In the past few years our equipment has been updated resulting in decreased noise levels. We continue to use best management practices for noise reduction.

2012- 2016 Noise readings and improvements-

No changes have taken place since 2010. T.H. Kinsella continues to use the best management practices for noise reduction at the quarry.

2011 Noise readings and improvements-

No changes have taken place since 2010. T.H. Kinsella continues to use the best management practices for noise reduction at the quarry.

2010 Noise readings and improvements-

- Due to the limited staff at the Town of Manlius and the fact that the person who did the noise readings is no longer employed by the town, no noise readings were taken in 2010.
- T.H. Kinsella continues to use the best management practices for reducing noise including:
 - Training operators' practices to keep machinery noise low.
 - Major equipment using smart back up alarms.
 - Dividing the new mining area into two parts using the 40' high wall as a noise barrier until final mining.

2009 Noise readings and improvements-

- Due to the limited staff at the Town of Manlius and the fact that the person who did the noise readings is no longer employed by the town, no noise readings were taken in 2009.
- T.H. Kinsella continues to use the best management practices for reducing noise including:
 - Training operators' practices to keep machinery noise low.
 - Major equipment using smart back up alarms.
 - Dividing the new mining area into two parts using the 40' high wall as a noise barrier until final mining.

2008 Noise readings and improvements-

- Ric Maute continues to monitor noise at the quarry during the year. All of his readings are done with out notice.
- T.H. Kinsella recent crusher modifications have improved off site noise and we continue to use methods to reduce off site noise. This includes:
 - Doing most of our rock breaking "in the hole" to reduce noise from traveling off site.
 - No operations on the upper level until 8:00 in the morning.
 - Training operators' practices to keep machinery noise low.

2007 Noise readings and improvements-

- Ric Maute periodically monitors noise at various times during the year. The QMC would like to continue to build data in regards to the noise in the event

someone feels there has been a change in noise from the quarry, we would be able to determine if there have been any changes.

- We finished enclosing our secondary crushers and screens this year to reduce both noise and dust from the crushers.

2006 Noise readings and Improvements

- Ric Maute from the town is continuing to do noise reading at various times during the year.
- This year we enclosed our primary crusher to reduce the noise and dust from the crusher.
- We also built a truck storage garage near the maintenance garage that will prevent the trucks from having to slam the tail gates to remove the snow during the winter months.

2005 Noise readings and Improvements

Rick Maute from the Town did noise readings once per month when the crusher was operating. He also took readings at various times when we blasted.

In the spring of 2005, we changed our back up alarms on equipment regularly operating in the quarry to a “Preco radar type alarm”. This type of alarm only “beeps” when it senses something behind the machine. It cost \$500.00 per machine to change the alarms.

2004 Noise readings

Ric Maar, the Town of Manlius Engineer, took noise readings in March and April. After his departure, readings were not taken until October by Mike Maute.

The QMC resumed noise readings in 2000 for background purposes to see if any changes resulted from the crushers being moved as well as from the redesign of the hopper on the crusher.

Five noise readings were taken from March through December because of Ric Maar’s departure.

2003 Noise Improvements-

Our final quarry haul truck was equipped with a new quieter engine this summer. The new berm being constructed along the quarry’s west side is nearly twice as high as the old berm. This should contribute to a considerable reduction in noise.

Section G

Crusher Reports

Fayetteville Efficient

2025			
MONTH	TONS PRODUCED	MAN HOURS	TONS PER MAN HOUR
Jan	0	429	0.0
Feb	0	236	0.0
Mar	0	96	0.0
Apr	0	275	0.0
May	17,214	841	20.5
Jun	30,623	1,260	24.3
Jul	10,051	536	18.8
Aug	0	253	0.0
Sep	11,358	631	18.0
Oct	28,182	1,017	27.7
Nov	32,352	912	35.5
Dec	5,032	833	6.0
TTL	134,812	7,318	18.4

This is a monthly spreadsheet with how many tons we have produced and how many hours the employees have worked. The first day of operations was on 5/15/2025. The last day of operations was on 12/5/2025.

Section H

Dust Control Plan

This is a plan to control fugitive dust from the quarry with environmentally acceptable materials requested by the Town of Manlius as a condition of the mining permit that the company holds. The following methods will be used to control dust:

Drilling

Water is sprayed into the borehole through the drill rod to wet any dust particles from the drill bit. A dust collector mounted on the drill captures any dust that does surface from the borehole.

Loading Material into Trucks

Control of dust while loading trucks is achieved by minimizing the disturbance, the vertical drop, and the tumbling of loaded material. If material is excessively dry, the water truck sprays the stockpile to ensure moisture content to control the dust.

Crushing Material

Water is sprayed at each stage of the crushing operation. This includes the hopper, where material is first dumped into the crusher; the impact crusher, conveyor transfer points, and the conveyor final drop into stockpiles where there is a potential for dust emissions. Other areas of the plant are using wash screens; therefore, all material is saturated. Also, some new conveyors are “radial” stackers enabling material to be closer to the belt, decreasing vertical drop and potential for dust. The construction of aboveground berms and the movement of the crushing operation to the quarry have reduced the potential for dust to migrate from the crushing area. Our crushers are also enclosed with a building.

Unpaved Roads

Unpaved roads are maintained by regular watering by our water truck, and an annual liquid calcium spray treatment that lasts for most of the year. Front-end loaders periodically scoop up water that is retained in the quarry floor and sprinkle it on the roads and the loading areas. In addition, slow enforced speed limits and stone spread on quarry roads minimize the chance of fine dust particles becoming airborne and to keep particles from “tracking”. Calcium flakes are spread in some areas to retain moisture for dust control. The calcium “tracks” to some areas where fine dust particles are hard to control.

Paved Roads

Regular sweeping and flushing with water maintain the paved roads leading to the quarry from Route 5 and Townsend Road. The roads are periodically checked during the day for spilled stone and then swept if necessary. If fine dust is on the road, the water truck flushes the dust off the road.

The methods used vary in frequency depending on temperature, wind, humidity, and amount of traffic in the quarry.

Section I

Air Blast Control Plan

This is a plan to control air blast and dust from blasting on the surrounding properties. The following methods will be used to minimize the effects:

Air Blast

Proper blast design and hole layouts are used to provide maximum rock fracture and minimum air concussion and vibration. In the quarry extension area, the angle of the blast face will be away from any adjacent dwellings; therefore, the energy resulting from blasts will be directed and dissipated away from the closest structures in the Changing Seasons development and along Salt Springs Road. The earthen berm enclosing the quarry will assist in absorbing and/or deflecting air blast waves. There will be six to eight feet of cover material over the charges in each hole and fifteen to seventeen feet of distance from the bore holes to the exposed rock face, depending on the bore hole size. Factors such as wind speed and direction, temperature inversions, and cloud cover are observed on the night before a scheduled blast. If favorable conditions are not forecast for the scheduled blast day, the blast will be postponed or cancelled.

Dust Effects

The majority of the blasting occurs well within the quarry perimeter protected from the winds by the perimeter vegetative buffer zone and depth below adjacent elevation. The prevailing westerly winds tend to carry any dust away from the dwelling and the extensive buffer areas allow dust to settle well within the quarry perimeters. The quarry floor is saturated with water to prevent any dust on the floor from becoming airborne.

Vibration Controls

In 2010 we were able to implement computerized digital blasting caps. This enabled us to design the timing of the blast exactly as recommended by Vibra-Tech engineers to reduce off site annoyances. Each hole (or ½ hole) is design to detonate milliseconds apart. By differentiating the delays, it changes the ground vibrations to be less noticeable. This technology is fairly new, but it is the first year in many that we did not have any blasting complaints.

Section J

Berms & Reclamation Activities

2025- Imported fill is continuing along the north-west wall for reclamation. The rate of imported fill continues to come in faster than the mining of the area, therefore, reclamation is very close behind the removal of the rock. We have also started placing overburden being removed from the new mining area to the south end of the north-west wall (area closest to Changing Seasons) since mining is complete there. There is also an area in the northern part of the quarry that we started to reclaim by grading the area. Topsoil and seed will be applied in the spring when the weather permits.

2024- Imported fill is continuing along the north-west wall for reclamation. The rate of imported fill continues to come in faster than the mining of the area, therefore, reclamation is very close behind the removal of the rock. Overburden is being used along the south wall for reclamation. Compost is stockpiled for added organics during reclamation.

2023- Imported fill is continuing along the north-west wall for reclamation. The rate of imported fill coming in is almost faster than the mining of the area, therefore, reclamation is very close behind mining. Overburden is being used along the south wall for reclamation.

2022- Imported fill is continuing along the north-west wall for reclamation. Overburden is being used along the south wall for reclamation.

2021- We did not change our imported fill dump area. We continue reclaiming the north-west wall. We are also placing overburden fill material closer to the working face on the north wall.

2020- Imported fill continued along the north-west wall for reclamation. We have now caught up with mining activity, therefore, we will change where we dump the imported fill to the south wall for reclamation. We are also dumping overburden here. Compost is being stockpiled to amend the organics in the soil if necessary, to promote vegetation

2019- Imported fill is continuing along the north-west wall for reclamation. Overburden is being used along the south wall for reclamation. Compost is being stockpiled to amend the organics in the soil if necessary, to promote vegetation.

2018- Imported fill is continuing along the north-west wall for reclamation. Overburden is being used along the south wall for reclamation.

2017- Imported fill continues to be placed along the north-west wall for reclamation purposes. Over 100,000 tons of material was put in place for reclamation in 2017.
Berms- We have had a handful of evergreen trees die on the outside of the berm that we are removing. The trees that were planted by the tree committee along Salt Springs Road and Townsend Road appear to be thriving.

2015-2016- The overburden and fill along the south wall has caught up to our active mining face, therefore, in 2016 we began placing fill along the north-west wall near the Changing Seasons development for reclamation.

2014- Areas that were reclaimed in 2013 have grown excellent vegetation. We are continuing to place fill along the south wall following closely behind mining operations concurrently reclaiming.

2013- Topsoil was placed and graded on the south slope this fall. The area was then seeded and mulched. Grass was germinating before cold weather hit. Two thirds of the south wall in the original quarry has been reclaimed.

2012- Final material is being placed on the south wall in anticipation of grading and seeding a portion in 2013. Additionally, overburden continues to be deposited in this area for reclamation.

2011 Reclamation this year has mainly been limited to back filling the south wall of the quarry. It is estimated to have 75% of the material in place to reclaim the original quarry's south wall. When sufficient material is in place, grading and re-vegetation will occur.

Berms- There have been no changes in the berms.

2010- Reclamation this year has mainly been limited to back filling the south wall of the quarry. When sufficient material is in place, grading and re-vegetation will occur.

Berms- There have been no changes in the berms.

2009- Reclamation is complete on the south-east side of the quarry. Topsoil has been placed and seeded. Fill material is continuing to be placed against the south wall of the quarry for future sloping and seeding per our reclamation plan.

Berms- 10 new 8' evergreen trees were planted on top of the berm along Salt-Springs road to help screen the quarry from the second floor of Rock Acres house. This was not requested by anyone. Danger/Drop-off signs were replaced where necessary around the perimeter of the quarry where necessary.

2008- Reclamation is nearly complete on the south-east side of the quarry along Townsend road. Most of the material is in place and sloped in accordance with the reclamation plan. By the spring of 2009, we should be able to topsoil and seed most of this area.

Berms- No changes were made to the berms in 2008. Berms are regularly monitored to ensure warning/posted signs are in place.

2007- Reclamation this year was focused on backing filling and sloping the walls on the south-east side of the quarry along Townsend road. More material is needed to finish this area, so we will continue reclaiming this area in 2008.

Berms- The new berms erected in the expansion area are maturing very nicely and are blending nicely with the surroundings. This year the tree commission planted a row of trees along the berm on Townsend road.

2006- Reclamation is continuing along the south wall. This year we placed approximately 40,000 cubic yards of overburden along the wall for reclamation. The reclaimed area along the quarry road has matured and is very hard to notice that mining ever occurred there.

Berms- Trees were re-staked as needed on the berm and in front of the berm. Some trees on the berm and in the front died this year. We will remove those and they maybe replaced at some point. The tree commission planted a row of trees along Saltsprings Road that should look nice in the future.

2005- Reclamation is continuing along the south wall of the quarry. This area will be the primary focus of reclamation in the years to come.

Berms- The berms around the perimeter of the quarry have been completed. We are still planting trees on the berm and outside the berm. This will continue until we establish adequate cover and vegetation.

2004-Reclamation is finished along the quarry entry road. This area was seeded and mulched in May and has established vegetation. Backfill began on south wall of the quarry to reclaim this area. It will take 3-4 years for this to be complete.

Berms-We are continuing to build the berms in the new section of the quarry. Half of the berm along Saltsprings was completed in 2004 and we will complete the rest in the 2005 winter. We built some “mini berms” with rock walls close to Saltsprings road to soften the large berm behind it. Carl Swartzler and Larry Harris live across the street and liked the berms. They asked that we make an additional one the western field of the expansion area. The west berm of the quarry is progressing nicely.

2003-Reclamation is entering its final stages off the entry road to the quarry. We hope to have the area graded and ready for seeding by the spring of 2004. Portions of the south wall where mining is complete are being prepared for back fill to begin in the spring of 2004.

Berms- Approximately 500 feet of new berm has been constructed along the west side of the quarry. Material for the berm along Salt Springs Road is starting to be dumped to begin building that section of berm. We hope to have the majority of this section complete by spring.

2002- Reclamation is continuing off the entry road to the quarry. We are also continuing to stockpile overburden near the west wall in case this area can't be mined we are ready

to reclaim it. Composting of the 1998 Labor Day storm debris continues and is decomposing rapidly.

In May of 1996, topsoil was placed on the east slope of the quarry and was mulched and seeded with a grass and woody plant mixture.

Reclamation on the east slope is now complete, and the south end of the east wall has been terraced to provide some exposed rock faces in our reclamation efforts. About twenty or thirty evergreen trees have been transplanted at the base of the east slope. Mulch has been stockpiled from the Labor Day 1998 storm and will be utilized in our reclamation after it has decomposed. Final reclamation in the northeast section of the quarry has been finished this year.

Section K

Performance Bonds

In 2016 we renewed our 5-year NYSDEC Mining permit for an additional 5 years. The DEC required us to increase our reclamation performance bond from \$408,750.00 to \$448,800.00.

At the end of 2019 we consolidated all of our reclamation securities from our various permits to one irrevocable letter of credit. This letter changes based on the various requirements of the mine. The letter of credit includes our Fayetteville Quarry.

During 2025, NYS DEC revised its reclamation cost estimate requiring an increase in the amount of the letter of credit for the Fayetteville quarry site (NYS Mine file #70077) from \$448,800.00 to \$800,000.00. Evidence of the increase in the consolidated Standby Letter of Credit as well as the letter confirming acceptance of the increased amount is attached below.



M & T Bank
Trade Finance Operations
One Light Street, 14th Floor, MC: MD2-L140
Baltimore, MD 21202
Tel: Letters of Credit: (410) 244-4475 / 4587
Tel: Documentary Collections: (410) 244-4800
SWIFT: MANTUS33INT

RECEIVED

APR 10 2025

Bureau of Mines,
Facilities, and Technology

**Irrevocable
Standby Letter of Credit
No. SB2283070001**

Amendment no. 4
Dated April 08, 2025

Beneficiary:
NYS DEPT. OF ENVIRONMENTAL CONS.
DIVISION OF MINERAL RESOURCES
625 BROADWAY - 3RD FLOOR
ALBANY, NY 12233-6500 United States

Applicant:
T.H. KINSELLA INC.
ROUTE 5 EAST GENESEE STREET
FAYETTEVILLE, NY 13066 United States

We amend our Standby Letter of Credit subject to the following terms and conditions. This amendment forms an integral part of the original instrument. All other terms and conditions remain unchanged.

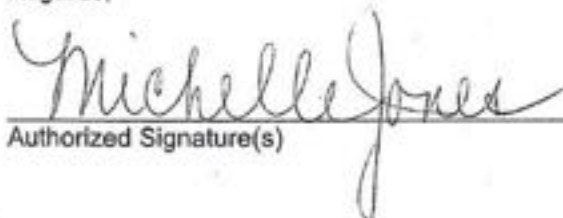
Amended Terms:

The amount of the Standby Letter of Credit is increased by: USD 351,200.00 to USD 1,932,040.00

ALL REFERENCES TO M AND T BANK ARE UPDATED TO OUR NEW ADDRESS BELOW, AND ALL STANDBY LETTER OF CREDIT COMMUNICATIONS AND DOCUMENTS (INCLUDING WITHOUT LIMITATION ANY DRAWS) WILL NEED TO BE SUBMITTED TO: M&T BANK, INTERNATIONAL TRADE FINANCE, ONE LIGHT STREET, 14TH FLOOR, MC: MD2-L140, BALTIMORE, MD 21202.

Unless otherwise instructed herein, all correspondence and inquiries regarding this transaction should be directed to our Customer Service Center at the above address, telephone: 410-244-4801 or 410-244-4824. Please indicate our reference number in all your correspondence or telephone inquiries.

Regards,


Authorized Signature(s)



**Department of
Environmental
Conservation**

KATHY HOCHUL
Governor

AMANDA LEFTON
Acting Commissioner

April 16, 2025

T H Kinsella Inc.
Attn.: Thomas Kinsella
PO Box 7
Fayetteville, NY 13066

**Re: Mine File # 70077 (Kinsella Quarry - NYS Route 5)
Letter of Credit No. SB2283070001 (\$1,932,040.00) - Blanket Bond
M & T Bank**

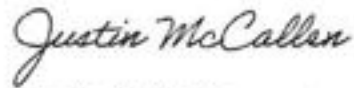
Dear T H Kinsella Inc.:

The New York State Department of Environmental Conservation (DEC) received the amendment for the increase of the above referenced Letter of Credit in the amount of \$1,932,040.00 submitted to cover the liability for the reclamation of the above-referenced mine. The following are the amounts for each mine file number: Mine File # 70077 for \$800,000.00, Mine File # 70435 for \$650,000.00, Mine File # 70594 for \$274,000.00, Mine File # 70875 for \$126,040.00, and Mine File # 70887 for \$82,000.00. The Letter of Credit amendment has been reviewed and is accepted.

Financial security must be maintained until final reclamation is approved by the DEC. Please make sure any changes in your financial surety (increase/decrease amendments/rider, new originals, cancellation notices, etc) are mailed to the full Albany NYSDEC office (address above).

If you have any questions, please feel free to contact me. Thank you.

Sincerely,



Justin McCallen
Program Aide

ecc: Andrew Abbott/Sheryl Thrasher, NYSDEC - Region 7, Syracuse, NY
cc: M & T Bank, Attn.: Letters of Credit, MC: MD2-L140, One Light St., 14th Floor,
Baltimore, MD, 21202

Air Quality Monitoring 2026 US EPA PM 2.5(AQI) Monthly

High Readings from:

*Canadian wood smoke

**Winter temp inversions, trapping pollutants

County	Onondaga	Onondaga	Onondaga	Onondaga	Onondaga	Onondaga	Onondaga	Cayuga
Location	Fayetteville	Summer	Green	8236	Brickyard	Liverpool	Southwood	Scipio
	1	View	Lakes 5	Salt Springs	Falls			NY
January								
Average	33	33	39	30	45	32	35	47
High	**146	**151	**152	**148	**151	**104	**106	**152
Low	3	4	4	3	5	3	4	3
February								
Average	37	38	43	38	43	33	36	54
High	**157	**155	**158	**155	**157	**152	**145	**161
Low	3	3	3	3	3	0	3	2
March								
Average	32	32	37	32	37	27	32	41
High	**103	**96	**107	**99	**122	**95	**97	**134
Low	1	1	2	2	3	1	1	2
April								
Average	31	33	37	32	37	28	32	40
High	43	70	53	48	70	63	57	74
Low	1	1	1	1	1	1	1	1
May								
Average	33	NA	37	30	39	28	33	40
High	56	Off line	61	60	63	(spike?)134	54	56
Low	1		1	1	1	1	1	3
June								
Average								
High								
Low								
July								
Average								
High								
Low								
August								
Average								
High								
Low								
September								
Average								
High								
Low								
October								
Average								
High								
Low								
November								
Average								
High								
Low								
December								
Average								
High								
Low								