



May 8, 2023

Mr. Stephen Catalfamo
NYSDEC – Region 7 Sub-Office
1679 NYS Route 11
Kirkwood, New York 13795

Reference: 2023 Periodic Review Report
TCMF Hillcrest Facility
4 Nowlan Road
Binghamton, New York
BCP Site No. C704045

Dear Mr. Catalfamo:

Introduction

This report provides the basis for review and certification of the institutional and engineering controls (ICs/ECs) implemented at Site No. C704045. The signed Institutional and Engineering Controls Certification Form is included in Appendix A.

The Site is currently owned by Binghamton Realty, Inc. and this Periodic Review Report (PRR) is prepared and submitted at the direction of Binghamton Realty, Inc., consistent with the Site's remedial program as approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH). The reporting period for this PRR is April 20, 2022 to April 20, 2023.

A Brownfield Cleanup Agreement (BCA) between Binghamton Realty, Inc. and the NYSDEC was implemented on December 6, 2004 for the Triple Cities Metal Finishing Corporation (TCMF) Hillcrest Facility (Site). The Site is located at 4 Nowlan Road in the Town of Fenton, County of Broome and State of New York.

The Final Engineering Report (FER) was accepted and the Certificate of Completion (COC) was issued by the NYSDEC to Binghamton Realty, Inc. on December 20, 2016. The COC required the implementation of the NYSDEC-approved Site Management Plan (SMP). The original SMP was submitted to NYSDEC on November 2, 2016 and approved by the NYSDEC on November 3, 2016. The original SMP has been modified multiple times, see Site Management Plan Compliance below for details.

Site Overview

The Site consists of two contiguous parcels and encompasses approximately 0.95 acres. The Site is bordered on the south by Beckwith Avenue, on the east by the B. W. Elliot Manufacturing Company (former C.A.E. Link Electronics facility), on the west by two commercial properties and a residence and on the north by Nowlan Road. North of Nowlan Road are residences and a gas station. Further south, west and north are residential properties.

In response to sub-slab vapor samples collected at the Site that exceeded Matrix 1 Action Levels set in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, a sub-slab depressurization system (SSDS) was installed within the occupied spaces of the industrial building. The SSDS has been in operation since January 2006 and has been expanded twice, once in 2012 and once in 2014.

A Maintenance & Monitoring Plan for the SSDS was submitted to NYSDEC in May 2007. Annual Interim Maintenance & Monitoring Reports have been submitted to the NYSDEC since 2009. Beginning in 2018, the annual PRR replaced the Annual Interim Maintenance & Monitoring Report.

The contaminants of concern, identified at the Site, were cadmium, chromium, lead and nickel. The chlorinated volatile organic compounds detected in the soil vapor and groundwater at the Site appear to be associated with the adjacent C.A.E. Link Electronics facility. Remediation, including excavation of source areas and application of a soil stabilization amendment, was completed at the Site in 2015 and 2016.

Site Management Plan Compliance

The original SMP was submitted to NYSDEC on November 2, 2016 and approved by the NYSDEC on November 3, 2016. The Site can be used for commercial or industrial purposes. There is a prohibition on the use of groundwater at the Site, and any site activities must be in compliance with the SMP.

The Site currently has the following institutional controls and engineering controls:

- Ground Water Use Restrictions,
- Vapor Mitigation via the SSDS,
- Cover System (includes the Asphalt Pavement and the Site Building),
- Land Use Restrictions,
- Site Management Plan (includes a Soil Management Plan, O&M Plan and ICs/ECs Plan),
- Monitoring Plan.

The monitoring requirements for the Site are listed in Section 4 of the SMP (Monitoring and Sampling Plan) and originally included the following:

- Annual review of site cover,
- Annual review of the SSDS,
- Semi-annual groundwater monitoring of wells MW-3, MW-3HA, MW-4, MW-5R, MW-6, MW-7R, MW-8 and MW-9 for the analyses of volatile organic compounds (VOCs) on the Target Compound List (TCL) by EPA Method 8260 and for cadmium and chromium by EPA Methods 6010 and for hexavalent chromium by Method SM3500.

On May 15, 2017, GeoLogic submitted a request to modify the SMP by eliminating the requirement to analyze groundwater samples for VOCs on the TCL. The NYSDEC approved this modification on May 23, 2017. The SMP was revised to reflect this modification and was submitted to the NYSDEC on July 10, 2017. Future groundwater monitoring will include the collection of samples, on a semi-annual basis, to be analyzed for cadmium, chromium and hexavalent chromium.

On May 21, 2018, the NYSDEC approved GeoLogic's request to modify the SMP by eliminating monitoring wells MW-4, MW-5R, MW-6 and MW-7R from the groundwater sampling program. The SMP was revised to reflect this modification and Revision No. 2 to the SMP was submitted to the NYSDEC on June 12, 2018. Future groundwater monitoring events will include the collection of samples from MW-3, MW-3HA, MW-8 and MW-9 on a semi-annual basis. The groundwater samples will be analyzed for cadmium, chromium and hexavalent chromium.

On December 21, 2018, GeoLogic decommissioned two monitoring wells (MW-4 and MW-6) that were no longer needed for evaluating groundwater quality at the Site. The well decommissioning procedures were selected based upon the Site's SMP and the NYSDEC's CP-43: Groundwater Monitoring Well Decommissioning Policy, dated November 3, 2009.

During the May 2019 groundwater sampling event, GeoLogic observed that monitoring well MW-3HA has been destroyed. This well was located off-site on the parcel that adjoins the Site to the west. The owner of the adjoining property stated that the well was destroyed during the winter of 2018-2019 by snow plowing operations. Future groundwater monitoring events will include the collection of samples from MW-3, MW-8 and MW-9 on a semi-annual basis.

During the November 9, 2021 groundwater sampling event, GeoLogic observed that monitoring well MW-7R appeared to have been abandoned. It is noted that this is an off-site well and was not part of the groundwater sampling program for the Site. GeoLogic utilized this well in the past to collect water levels.

On June 10, 2022, the NYSDEC approved GeoLogic's request to modify the SMP to reduce the groundwater monitoring frequency from twice per year to once per year. The SMP was revised to reflect this modification and Revision No. 3 to the SMP was submitted to the NYSDEC on August 4, 2022. Future groundwater monitoring events will include the collection of samples from MW-3, MW-8 and MW-9 on an annual basis.

During the April 13, 2023 groundwater sampling event, GeoLogic observed that monitoring well MW-3 appeared to have been abandoned. It is noted that this was an off-site well and was not installed or maintained by GeoLogic or the owner of the Site. Future groundwater monitoring events will include the collection of samples from MW-8 and MW-9 on an annual basis.

The project management team is as follows:

| | |
|-----------------|------------------------------|
| Property Owner: | Binghamton Realty, Inc. |
| Tenants: | Multiple Commercial Tenants. |
| Consultant: | GeoLogic NY, P.C. (GeoLogic) |

Site Conditions Summary

The asphalt areas that experienced excavation activities in 2016 have been restored. No changes to the building footprint have occurred since the issuance of the COC.

There have been no changes to the building or to the HVAC system, during this reporting period, which would change or impact air exchange pathways or the operation/efficiency of the SSDS.

During GeoLogic's May 3, 2022 and April 13, 2023 site visits, the building was occupied. The current tenants at the Site are summarized below:

- Mr. Michael Hammond – office space;
- Innovative Clean Room Technologies – production and warehouse space;
- Proforma Printing – storage space.

Sub-Slab Depressurization System - Monitoring & Maintenance

The SSDS currently consists of seventeen extraction points connected to two roof-mounted blowers (see Figure No. 1). No changes to the SSDS have occurred during this reporting period.

The current tenants have been instructed to contact the Site owner, Mr. Charles Morgan of Binghamton Realty, Inc., if the system is not operating, or if the system becomes damaged (ex. breakage of extraction piping). To ensure that proper notification is in place in case of new employee(s), the following information have been provided to the tenants:

- Schematic of SSDS and the location of the system components;
- Labeling of components accessible to occupant(s); and
- Contact information for Charles Morgan and GeoLogic.

NYSDEC and NYSDOH are to be notified within 24 hours of failure of the SSDS.

Monitoring of the SSDS by GeoLogic has included the following:

- Visual inspections of the SSDS components and building were performed by GeoLogic on May 3, 2022 and April 13, 2023. Airflow readings and PID measurements were collected from within the accessible extraction pipes during the inspections. All PID readings have been 0 ppm, except where indicated otherwise in the tables below. It is also noted that painting was occurring during the May 3, 2022 site visit and background PID readings ranged from 0 ppm to 0.7 ppm. No painting was occurring during the April 13, 2023 site visit and the background PID reading was 0 ppm.

Summary Table - Vapor Mitigation System Air Flow Readings

| Date | Extraction Point, Air Flow (feet-per-minute) | | | | | | | | | | | | | Effluent (PID (ppm)) |
|------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| 1/14/2009 | 140 | 100 | 100 | 220 | 250 | 320 | 300 | 100 | 250 | | | | | 0 |
| 8/28/2009 | 100 | 100 | 150 | 250 | NA | 400 | 400 | 75 | 200 | | | | | 0 |
| 12/11/2009 | 100 | 70 | 180 | 200 | 180 | 250 | 300 | 120 | 75 | | | | | 0 |
| 6/03/2010 | 60 | 160 | 140 | 150 | NA | 240 | 390 | 70 | 165 | | | | | 0 |
| 10/25/2010 | 100 | 250 | 250 | 250 | NA | 250 | 450 | 190 | 295 | | | | | 0 |
| 5/19/2011 | 80/0 | 220 | 200 | NA | NA | NA | 420 | 200 | 150 | | | | | NM |
| 10/17/2011 | 100 | 180 | NA | 220 | 200 | 280 | 400 | 160 | 180 | | | | | 0 |
| 5/04/2012 | 113 | 115 | 160 | 172 | 260 | 250 | 341 | 50 | 144 | 47 | 30 | 53 | 53 | NM |
| 9/28/2012 | 67 | 108 | 102 | 108 | NA | 210 | 312 | 74 | 86 | 102 | 61 | 54 | 34 | 0 |
| 3/15/2013 | NA | 166 | 204 | NA | 245 | 235 | 326 | 98 | 49 | 140 | 49 | 41 | 91 | NM |
| 9/20/2013 | 196 | 259 | 293 | 321 | 382 | 357 | NA | 212 | 192 | 277 | 150 | 150 | 233 | 0 |
| 2/20/2014 | 101 | NA | 196 | 179 | NA | 261 | 115 | 49 | 57 | 147 | 48 | 72 | 68 | NM |

| Date | Extraction Point, Air Flow (feet-per-minute) | | | | | | | | | | | | | Effluent (PID (ppm)) |
|--|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-----|-----|-------------|----------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| 10/22/2014 | 122 | 68 | NA | 122 | NA | 186 | 343 | 99 | 94 | 161 | 45 | 92 | 72 | 0 |
| 2/19/2015 | 345 | 351 | 366 | 302 | 297 | 431 | 535 | 162 | 162 | 310 | 10 | 220 | 245 | NM |
| 8/19/2015 | 102 | 79 | 166 | 147 | NA | 203 | 370 | 88 | 77 | 166 | 35 | 57 | 245 | 0 |
| 3/17/2016 | 69 | 102 | 268 | 292 | 301 | 366 | 428 | 211 | 192 | 277 | 86 | 216 | 227 | 0 |
| 9/21/2016 | 75 | 111 | 215 | 307 | 283 | 310 | 389 | 251 | 165 | 228 | 103 | 184 | 236 | NM |
| 5/3/2017 | 107 | 72 | 161 | 139 | NA | NA | 283 | 89 | 186 | 159 | 36 | 161 | NA | NM |
| 5/24/2018 | 113 | 78 | 210 | 185 | 119 | 205 | 315 | 120 | 62 | 137 | 30 | 79 | 62 | 0 |
| 5/23/2019 | 197 | 80 | 226 | 149 | 403 | 246 | 373 | 110 | 66 | 217 | 156 | 150 | 43 | 0 |
| 6/8/2020 | No air flow - blower not working | | | | | | | | | | | | | |
| 6/3/2021 | 130 | 162 | 132 | 153 | 142 | 266 [0.1] | 463 [0.3] | 96 [0.2] | 95 [0.1] | 131 [0.1] | 53 | 21 | 76 [0.1] | 0.2 |
| 5/3/2022 | 154 [0.3] | 148 [0.4] | 246 [0.3] | 196 [0.3] | 339 [0.3] | 253 [0.1] | 392 [0.1] | 103 [0.1] | 169 | 123 | 28 | 42 | 83 | 0.1 |
| 4/13/2023 | 122 | 105 | 250 | 124 | 329 | 248 | 384 | 96 | 127 | 119 | 41 | 41 | 82 | 0 |
| Notes: NA – Not Accessible – blocked by inventory, shelving; NM – Not measured. [0.1] = PID reading in ppm. | | | | | | | | | | | | | | |

Summary Table, continued

Vapor Mitigation System Air Flow Readings

| Extraction Point, Air Flow (feet-per-minute) | | | | | Effluent (PID Reading) |
|--|--------------|--------------|--------------|--------------|------------------------|
| Date | 14 | 15 | 16 | 17 | |
| 10/22/2014 | 105 | 210 | 696 | 513 | 0 |
| 2/19/2015 | 243 | 384 | 1279 | 788 | NM |
| 8/19/2015 | 112 | 1010 | 760 | 581 | 0 |
| 3/17/2016 | 132 | 980 | 622 | 702 | 0 |
| 9/21/2016 | 127 | 869 | 732 | 765 | NM |
| 5/3/2017 | 105 | 147 | 679 | 679 | NM |
| 5/24/2018 | 62 | 196 | 1960 | 980 | 0 |
| 5/23/2019 | 30 | 259 | 1179 | 778 | 0 |
| 6/8/2020 | 36 | 218 | 984 | 532 | 0 |
| 6/3/2021 | 417 [0.1] | 878 [0.1] | 478 [0.6] | 241 [0.3] | 0.1 |
| 5/3/2022 | 829 | 248 | 480 | 93 | 0 |
| 4/13/2023 | 770 | 527 | 454 | 97 | 0 |

No interruptions to the operation of the SSDS were reported to GeoLogic during this reporting period, except for power outages.

No damage was observed to the SSDS's piping or surface seals during the annual system inspection.

Groundwater Monitoring Summary

As required under the SMP, Revision No. 3, annual groundwater monitoring events for monitoring wells MW-3, MW-8 and MW-9 were completed on May 3, 2022 and for monitoring wells MW-8 and MW-9 on April 13, 2023.

Depths to groundwater were measured at each well and the data was used to develop Water Table Elevations for both events (See Figures No. 2 and No. 3, and Table 1). Note: without data from MW-7R, it is not possible to determine the direction of groundwater flow. However, the direction of groundwater flow has been historically consistent, to the west.

The groundwater samples collected during the May 3, 2022 and April 13, 2023 sampling events were analyzed for cadmium, chromium and hexavalent chromium. It is noted that per the NYDEC's request, an additional groundwater sample was collected from MW-8, filtered in the field and submitted for laboratory analysis.

Field parameters (temperature, conductivity, dissolved oxygen (DO), pH and oxidation-reduction potential (ORP) and turbidity) were measured during purging procedures to ensure that stability was achieved prior to groundwater sample collection (see Table 2). Note: Starting in 2020, turbidity was added to the field parameters.

Post-remediation, cadmium concentrations in groundwater have ranged from not-detected to 130 µg/L. The highest concentration was observed at MW-8 which is adjacent to the remediation excavation and injection areas. It is noted that the highest concentration was observed in the November 14, 2018 sample and that the 2019 through 2023 samples from MW-8 were one order of magnitude lower. NYS Water Quality Standard for cadmium is 5 µg/L (See Table 3).

Post-remediation, total chromium concentrations in groundwater have ranged from 19.6 µg/L to 495 µg/L. The highest concentration was observed at MW-8 in the November 14, 2018 sample. The 2019 through 2023 samples from MW-8 were lower. The NYS Water Quality Standard for cadmium is 50 µg/L (See Table 3).

Post-remediation, hexavalent chromium concentrations in groundwater have ranged from 22 µg/L to 320 µg/L. The highest concentration was observed at MW-3 in the November 13, 2019 sample. The

2020 through 2022 samples from MW-3 were lower. The NYS Water Quality Standard for hexavalent cadmium is 50 µg/L (See Table 3).

The cadmium and chromium concentrations reported in the MW-8 Filtered sample were 27 micrograms per liter (mg/L) and 250 mg/L respectively. The cadmium and chromium concentrations reported in the unfiltered sample were the same as the filtered sample. This data suggests the cadmium and chromium concentrations observed at MW-8 are not associated with suspended sediment in the sample.

Results from future monitoring events will continue to be utilized to monitor contaminant concentrations.

Recommendations

No changes to the monitoring frequency or maintenance requirements are recommended by GeoLogic at this time.

If you have any questions, or additional information is required, please contact the undersigned.

Prepared by,

GeoLogic NY, P.C.



Christopher T. Gabriel
Project Manager



Forrest C. Earl, P.G.
President/Principal Hydrogeologist

Enc: Appendix A Institutional and Engineering Controls Certification Form
 Appendix B Figures
 Appendix C Tables
 Appendix D Laboratory Analysis Reports

cc via e-mail: Charles Morgan & G.P. Morgan, TCMF
 M. Schuck, NYSDOH
 C. Coddington, BCHD

cc: Fenton Public Library (paper copy only)

File: P:\PROJECTS\1999\99011A\REPORT\2023 Periodic Review Report\2023 PRR for Site No. C704045 TCMF - May 2023.doc

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. **C704045**

Site Name TCMF Hillcrest Facility

Site Address: 4 Nowlan Road Zip Code: 13904
City/Town: Binghamton
County: Broome
Site Acreage: 0.953

Reporting Period: April 20, 2022 to April 20, 2023

- | | YES | NO |
|--|--------------------------|--------------------------|
| 1. Is the information above correct? | X | <input type="checkbox"/> |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | <input type="checkbox"/> | X |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | X |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | X |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | <input type="checkbox"/> | X |

Box 2

- | | YES | NO |
|--|----------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial | X | <input type="checkbox"/> |
| 7. Are all ICs in place and functioning as designed? | X | <input type="checkbox"/> |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid? ☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years) ☒ ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C704045**Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control**129.05-4-2**

Binghamton Realty Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

- The Controlled Property may be used for Commercial and Industrial.
- Prohibition on the use of groundwater.
- Site activities (i.e., monitoring and soil management) in compliance with the SMP.
- Evaluation of vapor intrusion for newly developed buildings.

129.05-4-5

Binghamton Realty Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

- The Controlled Property may be used for Commercial and Industrial.
- Prohibition on the use of groundwater.
- Site activities (i.e., monitoring and soil management) in compliance with the SMP.
- Evaluation of vapor intrusion for newly occupied or developed buildings.

Box 4**Description of Engineering Controls**ParcelEngineering Control**129.05-4-2**

Vapor Mitigation
Cover System

- Sub-Slab Depressurization Systems with the Site building.
- Site Cover System.

129.05-4-5

Cover System

- Site Cover System.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

X

☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

X

☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C704045

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I George P. Morgan at 4 Nolan Road, Binghamton, NY 13904
print name print business address

am certifying as G.P. Morgan, Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

G.P. Morgan
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

4/20/23
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

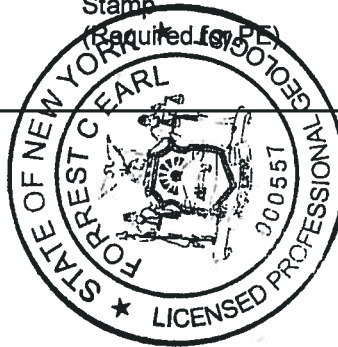
I Forrest Earl, P.G. at Geologic NY, P.C.
print name PO Box 350 Homer, NY 13045
print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)

Forrest Earl
Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

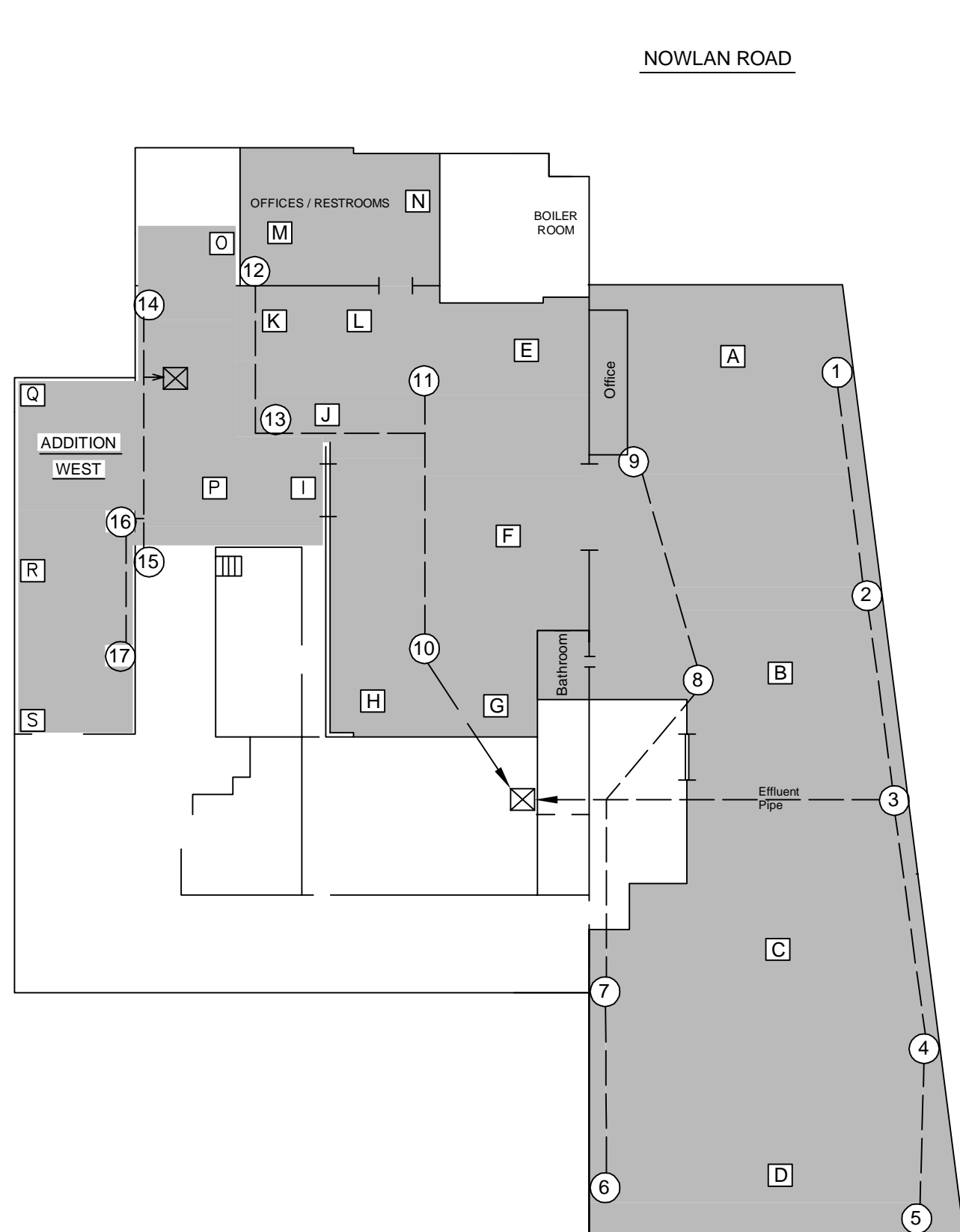
Stamp
(Required for PE)

5-5-23
Date



APPENDIX B

FIGURES



LEGEND:

- ① EXTRACTION POINT-4" DIAMETER PVC PIPING
- A PILOT POINT
- ⊗ ROTRON 404 AND 505 BLOWER
- OCCUPIED AREA




GeoLogic

GeoLogic NY, P.C., Homer, New York

SSD SYSTEM LOCATION MAP
Triple Cities Metal Finishing
Binghamton, New York
Site No. C704045

| | | |
|----------------------|--------------------|------------------------|
| DRAWN BY: SMC/SDW | SCALE: NTS | PROJECT NO.: 99011A |
| REVIEWED BY: KT | DATE: JUN. 2020 | FIGURE NO.: 1 |



- Legend:
-  Monitoring Well Location (Approximate)
 -  Groundwater Contour
 -  867 Water Table Elevation, May 3, 2022

GeoLogic
GeoLogic NY, P.C.

WATER TABLE ELEVATIONS - MAY 2022
TRIPLE CITIES METAL FINISHING
BINGHAMTON, NEW YORK
BCP SITE NO. 704045

| | | |
|---------------------|------------------------|-----------------------|
| DRAWN BY: CTG | SCALE: Not To Scale | PROJECT NO: 99011A |
| REVIEWED BY: FCE | DATE: MAY 2022 | FIGURE NO: 2 |



- Legend:
- Monitoring Well Location (Approximate)
 - Groundwater Contour
 - 867 Water Table Elevation, April 13, 2023

GeoLogic
GeoLogic NY, P.C.

WATER TABLE ELEVATIONS – APRIL 2023
TRIPLE CITIES METAL FINISHING
BINGHAMTON, NEW YORK
BCP SITE NO. 704045

| | | |
|---------------------|------------------------|-----------------------|
| DRAWN BY: CTG | SCALE: Not To Scale | PROJECT NO: 99011A |
| REVIEWED BY: FCE | DATE: APRIL 2023 | FIGURE NO: 3 |

APPENDIX C

TABLES

TABLE 1
GROUNDWATER ELEVATIONS

| Well | MW-3 | | MW-3HA | | MW-4 | | MW-5R | | MW-6 | | MW-7R | | MW-8 | | MW-9 | |
|--|-----------|--------|---------------------------------|--------|----------------------------|--------|--------|-------------------|----------------------------|--------|-----------|--------|--------|--------|--------|--------|
| Top of Well Screen Elevation | 869.3 | | 872.5 | | 871.0 | | 873.3 | | 872.2 | | 877.4 | | 872.5 | | 874.6 | |
| Bottom of Well Casing Elevation | 859.3 | | 862.5 | | 861.0 | | 863.3 | | 862.2 | | 857.4 | | 862.5 | | 864.6 | |
| TOC Reference Elevation | 899.30 | | 901.53 | | 899.01 | | 898.27 | | 897.21 | | 896.40 | | 899.47 | | 898.64 | |
| DATE | DtoW | Elev. | DtoW | Elev. | DtoW | Elev. | DtoW | Elev. | DtoW | Elev. | DtoW | Elev. | DtoW | Elev. | DtoW | Elev. |
| 10/29/2015 | 30.75 | 868.55 | NA | | 33.22 | 865.79 | NA | | 28.58 | 868.63 | 22.75 | 873.65 | NA | | NA | |
| 4/11/2016 | 29.92 | 869.38 | 32.00 | 869.53 | 32.88 | 866.13 | 28.58 | 869.69 | 27.70 | 869.51 | 21.37 | 875.03 | 29.98 | 869.49 | 29.11 | 869.53 |
| 10/25/2016 | 30.93 | 868.37 | 32.99 | 868.54 | 33.37 | 865.64 | 29.81 | 868.46 | 28.66 | 868.55 | 23.50 | 872.90 | 31.01 | 868.46 | 30.27 | 868.37 |
| 1/4/2017 | 30.24 | 869.06 | 32.40 | 869.13 | 32.98 | 866.03 | 28.94 | 869.33 | 28.01 | 869.20 | 22.79 | 873.61 | NA | | 29.51 | 869.13 |
| 5/3/2017 | 29.05 | 870.25 | 31.21 | 870.32 | 32.77 | 866.24 | 27.56 | 870.71 | NA | | 18.06 | 878.34 | 29.14 | 870.33 | 28.25 | 870.39 |
| 11/16/2017 | 30.30 | 869.00 | 32.47 | 869.06 | 33.10 | 865.91 | 29.17 | 869.10 | 28.12 | 869.09 | 22.33 | 874.07 | 30.40 | 869.07 | 29.56 | 869.08 |
| 5/24/2018 | 29.40 | 869.90 | 31.55 | 869.98 | NC | | NC | | NC | | NC | | 29.50 | 869.97 | 28.64 | 870.00 |
| 11/14/2018 | 28.97 | 870.33 | 31.18 | 870.35 | 32.65 | 866.36 | 27.88 | 870.39 | NA | | 18.57 | 877.83 | 29.07 | 870.40 | 28.20 | 870.44 |
| 5/23/2019 | 29.16 | 870.14 | Destroyed during winter of 2018 | | Abandoned in December 2018 | | 28.05 | 870.22 | Abandoned in December 2018 | | 19.09 | 877.31 | 29.26 | 870.21 | 28.40 | 870.24 |
| 11/13/2019 | 29.57 | 869.73 | | | | | 28.45 | 869.82 | | | 20.60 | 875.80 | 29.68 | 869.79 | 28.85 | 869.79 |
| 6/8/2020 | 29.62 | 869.68 | | | | | 28.52 | 869.75 | | | 20.27 | 876.13 | 29.79 | 869.68 | 28.91 | 869.73 |
| 11/10/2020 | 30.45 | 868.85 | | | | | 29.30 | 868.97 | | | 22.77 | 873.63 | 30.53 | 868.94 | 29.75 | 868.89 |
| 6/3/2021 | 29.50 | 869.80 | | | | | NA | | | | 19.78 | 876.62 | 29.60 | 869.87 | 28.77 | 869.87 |
| 11/9/2021 | 31.46 | 867.84 | | | | | 30.38 | 867.89 | | | Abandoned | | 31.64 | 867.83 | 30.91 | 867.73 |
| 5/3/2022 | 29.15 | 870.15 | | | | | 28.05 | 870.22 | | | | | 29.25 | 870.22 | 28.40 | 870.24 |
| 4/13/2023 | Abandoned | | | | | | 24.48 | 873.79 | | | | | 29.70 | 869.77 | 28.90 | 869.74 |
| Notes: | | | | | | | | | | | | | | | | |
| TOC - Top of Casing | | | DtoW - TOC Depth to Water | | | | | Elev. - Elevation | | | | | | | | |
| NA - Not Accessible or Not Installed Yet | | | | | | | | | | | | | | | | |
| NC - Not collected due to miscommunication with field personnel. | | | | | | | | | | | | | | | | |
| Destroyed = Well destroyed. | | | | | | | | | | | | | | | | |
| Abandoned = Well decommissioned. | | | | | | | | | | | | | | | | |

TABLE 2
FIELD PARAMETERS

| Well | Date | Temp. (°C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP | Turbidity (NTU) |
|--|------------|---------------|-------------------------|--------------|------|--------|--------------------|
| MW-3 | 10/29/2015 | 14.48 | 0.788 | 4.93 | 7.58 | 219.2 | |
| | 4/11/2016 | 12.64 | 0.807 | 13.29 | 8.01 | 157.6 | |
| | 10/25/2016 | 14.41 | 0.767 | 3.17 | 8.18 | 271.1 | |
| | 1/4/2017 | 13.92 | 1.023 | 7.26 | 8.08 | 63.3 | |
| | 5/3/2017 | 12.35 | 1.431 | 7.56 | 7.63 | 260.5 | |
| | 11/16/2017 | 8.19 | 0.951 | 9.58 | 7.61 | 2.0 | |
| | 5/24/2018 | 12.62 | 0.980 | 8.55 | 7.62 | 246.8 | |
| | 11/14/2018 | 14.59 | 0.871 | 10.37 | 7.62 | 252.7 | |
| | 5/23/2019 | 12.64 | 0.908 | 15.14 | 7.73 | 286.4 | |
| | 11/13/2019 | 14.95 | 0.917 | 7.69 | 7.56 | 250.2 | |
| | 6/8/2020 | 12.80 | 0.741 | 8.78 | 7.74 | 190.5 | 386.1 |
| | 11/10/2020 | 13.81 | 0.960 | 10.01 | 7.06 | 313.0 | 752.0 |
| | 6/3/2021 | 12.90 | 0.414 | 8.33 | 7.53 | 178.7 | 289.0 |
| | 11/9/2021 | 14.10 | 1.044 | 8.00 | 7.61 | 190.2 | 324.0 |
| | 5/3/2022 | 12.90 | 1.447 | 8.63 | 7.79 | 56.1 | 273.8 |
| | 4/13/2023 | Abandoned | | | | | |
| MW-8 | 4/11/2016 | 12.44 | 0.569 | 4.01 | 8.29 | -143.9 | |
| | 10/25/2016 | 13.94 | 0.755 | 7.71 | 8.45 | 228.9 | |
| | 1/4/2017 | NS | | | | | |
| | 5/3/2017 | 12.31 | 1.375 | 10.01 | 7.71 | 252.8 | |
| | 11/16/2017 | 8.21 | 1.009 | 10.26 | 7.92 | 12.8 | |
| | 5/24/2018 | 12.60 | 0.904 | 9.35 | 7.69 | 255.1 | |
| | 11/14/2018 | 14.01 | 0.838 | 9.18 | 7.71 | 252.4 | |
| | 5/23/2019 | 12.97 | 0.793 | 15.56 | 7.75 | 287.3 | |
| | 11/13/2019 | 14.04 | 0.853 | 7.93 | 7.53 | 299.2 | |
| | 6/8/2020 | 12.70 | 0.732 | 9.57 | 7.79 | 181.1 | 2,168.0 |
| | 11/10/2020 | 13.02 | 0.952 | 6.56 | 7.10 | 297.0 | >1,000 |
| | 6/3/2021 | 12.80 | 0.383 | 8.90 | 7.50 | 165.3 | 1,920.4 |
| | 11/9/2021 | 14.00 | 0.997 | 8.51 | 7.63 | 258.6 | 2,784.0 |
| | 5/3/2022 | 13.10 | 1.174 | 9.46 | 7.87 | 94.6 | 3,595.3 |
| | 4/13/2023 | 13.50 | 0.946 | 8.97 | 7.72 | 233.5 | 2,110.0 |
| MW-9 | 4/11/2016 | 12.90 | 0.870 | 7.24 | 8.29 | 51.1 | |
| | 10/25/2016 | 14.88 | 0.705 | 10.16 | 8.63 | 230.6 | |
| | 1/4/2017 | 14.69 | 1.230 | 10.60 | 8.29 | 168.5 | |
| | 5/3/2017 | 11.99 | 1.294 | 10.78 | 7.83 | 238.6 | |
| | 11/16/2017 | 8.05 | 0.949 | 11.69 | 7.83 | 25.1 | |
| | 5/24/2018 | 12.36 | 0.778 | 10.22 | 7.80 | 243.9 | |
| | 11/14/2018 | 14.69 | 0.786 | 9.44 | 7.74 | 181.0 | |
| | 5/23/2019 | 11.87 | 0.690 | 16.96 | 7.81 | 281.7 | |
| | 11/13/2019 | 14.37 | 0.853 | 8.90 | 7.54 | 262.4 | |
| | 6/8/2020 | 12.10 | 0.671 | 10.00 | 7.80 | 183.5 | 139.6 |
| | 11/10/2020 | 12.79 | 1.100 | 10.04 | 7.06 | 323.0 | >1,000 |
| | 6/3/2021 | 12.30 | 0.345 | 9.52 | 7.54 | 180.3 | 403.2 |
| | 11/9/2021 | 13.60 | 0.854 | 9.04 | 7.70 | 217.7 | 854.0 |
| | 5/3/2022 | 11.90 | 1.106 | 9.70 | 7.81 | 63.7 | 299.0 |
| | 4/13/2023 | 13.20 | 0.735 | 9.28 | 7.77 | 214.4 | 1,039.0 |
| Notes: Turbidity added to field parameters in June 2020. | | | | | | | |

TABLE 3
SUMMARY OF 2016 - 2023 GROUNDWATER METALS ANALYTICAL RESULTS

| Well | Date | Cadmium | Chromium | Hexavalent Chromium |
|--|------------|----------------|----------|---------------------|
| MW-3 | 4/11/2016 | 10.5 | 161 | #N/A |
| | 10/25/2016 | 18.9 | 279 | #N/A |
| | 1/4/2017 | 13.2 | 210 | #N/A |
| | 5/3/2017 | 8.1 | 88.2 | 50 |
| | 11/16/2017 | 5.6 | 110 | 120 |
| | 5/24/2018 | 17.2 | 183 | 130 |
| | 11/14/2018 | 13.2 | 166 | 85 |
| | 5/23/2019 | 7.5 | 125 | 110 |
| | 11/13/2019 | 16.8 | 313 | 320 |
| | 6/8/2020 | 8.0 | 106 | 92 |
| | 11/10/2020 | 8.8 | 206 | 180 |
| | 6/3/2021 | 3.5 | 147 | 130 |
| | 11/9/2021 | 6.0 | 152 | 140 |
| | 5/3/2022 | <2.5 ND | 115 | 84 |
| Abandoned | | | | |
| MW-3HA | 4/11/2016 | 7.1 | 19.6 | #N/A |
| | 10/25/2016 | 18.8 | 57.8 | #N/A |
| | 1/4/2017 | 7.4 | 26.4 | #N/A |
| | 5/3/2017 | 11.7 | 54.4 | 43 |
| | 11/16/2017 | 8.2 | 28.9 | 22 |
| | 5/24/2018 | 16.8 | 34.3 | 22 |
| | 11/14/2018 | 18.7 | 63.6 | 47 |
| Well Destroyed Winter 2018 | | | | |
| MW-8 | 4/11/2016 | <3 U | 54.8 | #N/A |
| | 10/25/2016 | 7.9 | 254 | #N/A |
| | 1/4/2017 | Not Accessible | | |
| | 5/3/2017 | 10.3 | 133 | 100 |
| | 11/16/2017 | 3.1 | 96.0 | 76 |
| | 5/24/2018 | 17.0 | 254 | 240 |
| | 11/14/2018 | 130 | 495 | 280 |
| | 5/23/2019 | 12.9 | 267 | 250 |
| | 11/13/2019 | 17.3 | 279 | 270 |
| | 6/8/2020 | 15.8 | 301 | 300 |
| | 11/10/2020 | 18.3 | 339 | 310 |
| | 6/3/2021 | 17.4 | 284 | 250 |
| | 11/9/2021 | 18.2 | 271 | 270 |
| | 5/3/2022 | 18.4 | 332 | 310 |
| | 4/13/2023 | 27.0 | 250 | 240 |
| MW-9 | 4/11/2016 | 4.8 | 74.6 | #N/A |
| | 10/25/2016 | 7.5 | 24.4 | #N/A |
| | 1/4/2017 | 7.7 | 152 | #N/A |
| | 5/3/2017 | 6.5 | 48.0 | 43 |
| | 11/16/2017 | 5.0 | 70.3 | 50 |
| | 5/24/2018 | 14.9 | 90.4 | 87 |
| | 11/14/2018 | 11.0 | 65.4 | 53 |
| | 5/23/2019 | 11.9 | 82.8 | 75 |
| | 11/13/2019 | 16.2 | 89.0 | 75 |
| | 6/8/2020 | 7.7 | 64.9 | 53 |
| | 11/10/2020 | 10.2 | 110 | 94 |
| | 6/3/2021 | 7.3 | 80.3 | 61 |
| | 11/9/2021 | 6.3 | 65.1 | 60 |
| | 5/3/2022 | 6.2 | 85.2 | 75 |
| | 4/13/2023 | 8.5 | 79.0 | 76 |
| NYS Standard | | 5 | 50 | 50 |
| Notes: #N/A = Not analyzed. | | | | |
| All concentrations in micrograms per liter (µg/L) = parts per billion (ppb). | | | | |
| Highlight value exceed TOG 1.1.1 Water Quality Standards and/or Guidances for Class GA waters. | | | | |
| Monitoring requirement for VOCs was terminated in May 2017. See past reports for VOC results. | | | | |

APPENDIX D
LABORATORY ANALYSIS REPORTS

May 17, 2022

Geologic
Geologic
PO Box 350
Homer, NY 13077

RE: Project: TCMF 99011A - 5/3
Pace Project No.: 70213470

Dear Geologic:

Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kimberley M. Mack
kimberley.mack@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Christopher Gabriel, Geologic NY



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

Method: EPA 6010C

Description: 6010 MET ICP

Client: Geologic NY

Date: May 17, 2022

General Information:

4 samples were analyzed for EPA 6010C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

Method: EPA 7196A

Description: 7196 Chromium, Hexavalent

Client: Geologic NY

Date: May 17, 2022

General Information:

4 samples were analyzed for EPA 7196A by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- DUPLICATE (Lab ID: 70213470004)
- MW-3 (Lab ID: 70213470001)
- MW-8 (Lab ID: 70213470002)
- MW-9 (Lab ID: 70213470003)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

| Sample: MW-3 | | Lab ID: 70213470001 | | Collected: 05/03/22 12:45 | | Received: 05/04/22 10:45 | | Matrix: Water | |
|---------------------------|---------|---|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 6010 MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville | | | | | | | |
| Cadmium | <2.5 | ug/L | 2.5 | 1 | 05/10/22 08:25 | 05/16/22 16:36 | 7440-43-9 | | |
| Chromium | 115 | ug/L | 10.0 | 1 | 05/10/22 08:25 | 05/16/22 16:36 | 7440-47-3 | | |
| 7196 Chromium, Hexavalent | | Analytical Method: EPA 7196A Pace Analytical Services - Melville | | | | | | | |
| Chromium, Hexavalent | 0.084 | mg/L | 0.020 | 1 | | 05/04/22 20:32 | 18540-29-9 | H1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

| Sample: MW-8 | | Lab ID: 70213470002 | | Collected: 05/03/22 13:00 | | Received: 05/04/22 10:45 | | Matrix: Water | |
|---------------------------|---------|---|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 6010 MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville | | | | | | | |
| Cadmium | 18.4 | ug/L | 2.5 | 1 | 05/10/22 08:25 | 05/16/22 16:48 | 7440-43-9 | | |
| Chromium | 332 | ug/L | 10.0 | 1 | 05/10/22 08:25 | 05/16/22 16:48 | 7440-47-3 | | |
| 7196 Chromium, Hexavalent | | Analytical Method: EPA 7196A Pace Analytical Services - Melville | | | | | | | |
| Chromium, Hexavalent | 0.31 | mg/L | 0.020 | 1 | | 05/04/22 20:34 | 18540-29-9 | H1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

| Sample: MW-9 | | Lab ID: 70213470003 | | Collected: 05/03/22 13:10 | | Received: 05/04/22 10:45 | | Matrix: Water | |
|---------------------------|-------|--|-------|---------------------------|----------------|--------------------------|------------|---------------|------|
| Parameters | | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3005A | | | | | | | |
| | | Pace Analytical Services - Melville | | | | | | | |
| Cadmium | 6.2 | ug/L | 2.5 | 1 | 05/10/22 08:25 | 05/16/22 16:50 | 7440-43-9 | | |
| Chromium | 85.2 | ug/L | 10.0 | 1 | 05/10/22 08:25 | 05/16/22 16:50 | 7440-47-3 | | |
| 7196 Chromium, Hexavalent | | Analytical Method: EPA 7196A | | | | | | | |
| | | Pace Analytical Services - Melville | | | | | | | |
| Chromium, Hexavalent | 0.075 | mg/L | 0.020 | 1 | | 05/04/22 20:35 | 18540-29-9 | H1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

| Sample: DUPLICATE | | Lab ID: 70213470004 | | Collected: 05/03/22 13:15 | | Received: 05/04/22 10:45 | | Matrix: Water | |
|---------------------------|------|--|-------|---------------------------|----------------|--------------------------|------------|---------------|------|
| Parameters | | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3005A | | | | | | | |
| | | Pace Analytical Services - Melville | | | | | | | |
| Cadmium | 31.1 | ug/L | 2.5 | 1 | 05/10/22 08:25 | 05/16/22 16:53 | 7440-43-9 | | |
| Chromium | 362 | ug/L | 10.0 | 1 | 05/10/22 08:25 | 05/16/22 16:53 | 7440-47-3 | | |
| 7196 Chromium, Hexavalent | | Analytical Method: EPA 7196A | | | | | | | |
| | | Pace Analytical Services - Melville | | | | | | | |
| Chromium, Hexavalent | 0.32 | mg/L | 0.020 | 1 | | 05/04/22 20:35 | 18540-29-9 | H1 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

QC Batch: 255872

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70213470001, 70213470002, 70213470003, 70213470004

METHOD BLANK: 1292852

Matrix: Water

Associated Lab Samples: 70213470001, 70213470002, 70213470003, 70213470004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Cadmium | ug/L | <2.5 | 2.5 | 05/16/22 16:31 | |
| Chromium | ug/L | <10.0 | 10.0 | 05/16/22 16:31 | |

LABORATORY CONTROL SAMPLE: 1292853

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cadmium | ug/L | 500 | 486 | 97 | 80-120 | |
| Chromium | ug/L | 500 | 487 | 97 | 80-120 | |

MATRIX SPIKE SAMPLE: 1292855

| Parameter | Units | 70213470001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Cadmium | ug/L | <2.5 | 500 | 528 | 105 | 75-125 | |
| Chromium | ug/L | 115 | 500 | 647 | 106 | 75-125 | |

SAMPLE DUPLICATE: 1292854

| Parameter | Units | 70213470001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Cadmium | ug/L | <2.5 | <2.5 | | |
| Chromium | ug/L | 115 | 117 | 2 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

| | | | |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch: | 255359 | Analysis Method: | EPA 7196A |
| QC Batch Method: | EPA 7196A | Analysis Description: | 7196 Chromium, Hexavalent |
| | | Laboratory: | Pace Analytical Services - Melville |

Associated Lab Samples: 70213470001, 70213470002, 70213470003, 70213470004

METHOD BLANK: 1289939 Matrix: Water
Associated Lab Samples: 70213470001, 70213470002, 70213470003, 70213470004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Chromium, Hexavalent | mg/L | <0.020 | 0.020 | 05/04/22 20:27 | |

LABORATORY CONTROL SAMPLE: 1289940

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Chromium, Hexavalent | mg/L | 0.2 | 0.19 | 94 | 85-115 | |

MATRIX SPIKE SAMPLE: 1289941

| Parameter | Units | 70213470001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/L | 0.084 | 0.2 | 0.29 | 102 | 85-115 | H1 |

SAMPLE DUPLICATE: 1289942

| Parameter | Units | 70213470001 Result | Dup Result | RPD | Qualifiers |
|----------------------|-------|--------------------|------------|-----|------------|
| Chromium, Hexavalent | mg/L | 0.084 | 0.10 | 18 | H1 |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCMF 99011A - 5/3

Pace Project No.: 70213470

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 70213470001 | MW-3 | EPA 3005A | 255872 | EPA 6010C | 255945 |
| 70213470002 | MW-8 | EPA 3005A | 255872 | EPA 6010C | 255945 |
| 70213470003 | MW-9 | EPA 3005A | 255872 | EPA 6010C | 255945 |
| 70213470004 | DUPLICATE | EPA 3005A | 255872 | EPA 6010C | 255945 |
| 70213470001 | MW-3 | EPA 7196A | 255359 | | |
| 70213470002 | MW-8 | EPA 7196A | 255359 | | |
| 70213470003 | MW-9 | EPA 7196A | 255359 | | |
| 70213470004 | DUPLICATE | EPA 7196A | 255359 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOC

WO#: 70213470



| | | | | | | | |
|--|--|---|--|--|--|---|--|
| Section A Required Client Information: Company: GeoLogic NY, P.C. Address: PO Box 350 Homer, NY 13077 Email To: geologicny@geologic.net Phone: 607-749-5000 Fax: 607-749-5063 Requested Due Date/TAT: Standard | | Section B Required Project Information: Report To: Chris Gaberl Copy To: Purchase Order No.: Project Name: TCMF Project Number: 99011A | | Section C Invoice Info Attention: Company Name: GeoLogic Address: Pace Quote Reference: Pace Project Manager: lea.sherman@pacelabs.com Pace Profile #: | | REGULATORY AGENCY <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> USF <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: NY STATE: | |
|--|--|---|--|--|--|---|--|

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE DW WATER WT WASTE WATER WW PRODUCT P SOILSOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test ↑ Y/N | Requested Analysis Filtered (Y/N) | | | | | | | | | | Pace Project No./ Lab I.D. |
|--------|--|---|--|--------------------------------|-----------------|--------------------|---------------------------|-----------------|---------------|------------------------|-----------------------------------|--|--|--|--|--|--|--|--|--|----------------------------|
| | | | | | COMPOSITE START | COMPOSITE END/GRAB | | | | | | | | | | | | | | | |
| 1 | MW-3 | | WT | G | DATE | DATE | TIME | DATE | TIME | | | | | | | | | | | | |
| 2 | MW-8 | | WT | G | | | 05/03/22 12:45 | | 2 | 1 | | | | | | | | | | | |
| 3 | MW-9 | | WT | G | | | 05/03/22 13:00 | | 2 | 1 | | | | | | | | | | | |
| 4 | Duplicate | | WT | G | | | 05/03/22 13:10 | | 2 | 1 | | | | | | | | | | | |
| 5 | MW-3 MS | | WT | G | | | 05/03/22 13:15 | | 2 | 2 | | | | | | | | | | | |
| 6 | MW-3 MSD | | WT | G | | | 05/03/22 13:25 | | 2 | 2 | | | | | | | | | | | |
| 7 | | | | | | | 05/03/22 13:20 | | 2 | 2 | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | Trip Blank | | WT | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|--|--|--|-----------------------|--|---------------------|--|---|--|-----------------------|--|---------------------|--|--|--|--|--|
| ADDITIONAL COMMENTS Lab needs to add NH ₃ to Total Cadmium / Chromium samples Duplicate, MW-3 MS and MW-3 MSD Category B Deliverables needed | | RELINQUISHED BY / AFFILIATION Joseph Menzel / GeoLogic Date: 5/3/22 | | DATE 5/3/22 | | TIME 1452 | | ACCEPTED BY / AFFILIATION Joe M. Pace Date: 5/4/22 | | DATE 5/4/22 | | TIME 1045 | | SAMPLE CONDITIONS Received on Ice (Y/N) <input checked="" type="checkbox"/> Custody Sealed Cooler (Y/N) <input checked="" type="checkbox"/> Temp in °C 1.5 | | Samples Intact (Y/N) <input checked="" type="checkbox"/> | |
|---|--|--|--|-----------------------|--|---------------------|--|---|--|-----------------------|--|---------------------|--|--|--|--|--|



Sample Condition Upon Receipt

WO#: 70213470

Client Name:

Geology

Project

PM: LS1

Due Date: 05/18/22

CLIENT: GEO

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

776758736987

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☐ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091

Correction Factor: + 0.1

Cooler Temperature(°C): 1.5

Cooler Temperature Corrected(°C): 1.6

Temperature Blank Present: ☐ Yes ☒ NoType of Ice: ☒ Blue ☐ None☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Date and Initials of person examining contents: SAR5/4/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ Noincluding Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | COMMENTS: |
|---|---|---|--|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 5. |
| Short Hold Time Analysis (<72hr): | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: (Triple volume provided for ICP) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 10. |
| Containers Intact: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 11. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 12. |
| -Includes date/time/ID, Matrix: SL/WT OIL | | | |
| All containers needing preservation have been checked? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| pH paper Lot # HC173342 | | | |
| All containers needing preservation are found to be in compliance with method recommendation? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample # |
| (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) | | | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). | | | |
| Per Method, VOA pH is checked after analysis | | | |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Initial when completed: Lot # of added preservative: Date/Time preservative added: |
| KI starch test strips Lot # | | | |
| Residual chlorine strips Lot # | | | 14. Positive for Res. Chlorine? Y N |
| SM 4500 CN samples checked for sulfide? | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. Positive for Sulfide? Y N |
| Lead Acetate Strips Lot # | | | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Present: | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 17. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if applicable): | | | |

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Cr+G samples went out @ 1kg.

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Christopher T Gabriel
Geologic NY Inc
PO BOX 350
37 Copeland Ave
Homer, New York 13077

Generated 4/19/2023 1:52:50 PM

JOB DESCRIPTION

Geologic Project - 99011A

JOB NUMBER

480-207816-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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4/19/2023 1:52:50 PM

Authorized for release by
John Beninati, Project Manager
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Job ID: 480-207816-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-207816-1

Comments

No additional comments.

Receipt

The samples were received on 4/14/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

Receipt Exceptions

Incorrect month listed on COC under sample date: MW-8 (480-207816-1), MW-8 FILTERED (480-207816-2), MW-9 (480-207816-3), MS-MW-9 (480-207816-3[MS]), MSD-MW-9 (480-207816-3[MSD]) and DUPLICATE (480-207816-4).

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Client Sample ID: MW-8

Lab Sample ID: 480-207816-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Cadmium | 0.027 | | 0.0020 | 0.00050 | mg/L | 1 | | 6010C | Total/NA |
| Chromium | 0.25 | | 0.0040 | 0.0010 | mg/L | 1 | | 6010C | Total/NA |
| Chromium, hexavalent | 0.24 | | 0.010 | 0.0050 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: MW-8 FILTERED

Lab Sample ID: 480-207816-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Cadmium | 0.027 | | 0.0020 | 0.00050 | mg/L | 1 | | 6010C | Dissolved |
| Chromium | 0.25 | | 0.0040 | 0.0010 | mg/L | 1 | | 6010C | Dissolved |

Client Sample ID: MW-9

Lab Sample ID: 480-207816-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Cadmium | 0.0085 | | 0.0020 | 0.00050 | mg/L | 1 | | 6010C | Total/NA |
| Chromium | 0.079 | | 0.0040 | 0.0010 | mg/L | 1 | | 6010C | Total/NA |
| Chromium, hexavalent | 0.076 | | 0.010 | 0.0050 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: DUPLICATE

Lab Sample ID: 480-207816-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Cadmium | 0.031 | | 0.0020 | 0.00050 | mg/L | 1 | | 6010C | Total/NA |
| Chromium | 0.26 | | 0.0040 | 0.0010 | mg/L | 1 | | 6010C | Total/NA |
| Chromium, hexavalent | 0.25 | | 0.010 | 0.0050 | mg/L | 1 | | 7196A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Client Sample ID: MW-8

Date Collected: 04/13/23 13:00

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-1

Matrix: Water

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Cadmium | 0.027 | | 0.0020 | 0.00050 | mg/L | | 04/17/23 08:23 | 04/18/23 05:26 | 1 |
| Chromium | 0.25 | | 0.0040 | 0.0010 | mg/L | | 04/17/23 08:23 | 04/18/23 05:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent (SW846 7196A) | 0.24 | | 0.010 | 0.0050 | mg/L | | | 04/14/23 10:10 | 1 |

Client Sample ID: MW-8 FILTERED

Date Collected: 04/13/23 13:15

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-2

Matrix: Water

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Cadmium | 0.027 | | 0.0020 | 0.00050 | mg/L | | 04/17/23 08:19 | 04/17/23 23:52 | 1 |
| Chromium | 0.25 | | 0.0040 | 0.0010 | mg/L | | 04/17/23 08:19 | 04/17/23 23:52 | 1 |

Client Sample ID: MW-9

Date Collected: 04/13/23 12:45

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-3

Matrix: Water

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Cadmium | 0.0085 | | 0.0020 | 0.00050 | mg/L | | 04/17/23 08:23 | 04/18/23 05:30 | 1 |
| Chromium | 0.079 | | 0.0040 | 0.0010 | mg/L | | 04/17/23 08:23 | 04/18/23 05:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent (SW846 7196A) | 0.076 | | 0.010 | 0.0050 | mg/L | | | 04/14/23 10:10 | 1 |

Client Sample ID: DUPLICATE

Date Collected: 04/13/23 13:40

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-4

Matrix: Water

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Cadmium | 0.031 | | 0.0020 | 0.00050 | mg/L | | 04/17/23 08:23 | 04/18/23 05:41 | 1 |
| Chromium | 0.26 | | 0.0040 | 0.0010 | mg/L | | 04/17/23 08:23 | 04/18/23 05:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent (SW846 7196A) | 0.25 | | 0.010 | 0.0050 | mg/L | | | 04/14/23 10:10 | 1 |

QC Sample Results

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-665406/1-A

Matrix: Water

Analysis Batch: 665788

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 665406

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|--------|---------|------|---|----------------|----------------|---------|
| Cadmium | ND | | 0.0020 | 0.00050 | mg/L | | 04/17/23 08:23 | 04/18/23 04:44 | 1 |
| Chromium | ND | | 0.0040 | 0.0010 | mg/L | | 04/17/23 08:23 | 04/18/23 04:44 | 1 |

Lab Sample ID: LCS 480-665406/2-A

Matrix: Water

Analysis Batch: 665788

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665406

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|------|---|------|----------------|
| Cadmium | 0.200 | 0.209 | | mg/L | | 104 | 80 - 120 |
| Chromium | 0.200 | 0.215 | | mg/L | | 107 | 80 - 120 |

Lab Sample ID: 480-207816-3 MS

Matrix: Water

Analysis Batch: 665788

Client Sample ID: MS-MW-9

Prep Type: Total/NA

Prep Batch: 665406

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Cadmium | 0.0085 | | 0.200 | 0.220 | | mg/L | | 106 | 75 - 125 |
| Chromium | 0.079 | | 0.200 | 0.288 | | mg/L | | 105 | 75 - 125 |

Lab Sample ID: 480-207816-3 MSD

Matrix: Water

Analysis Batch: 665788

Client Sample ID: MSD-MW-9

Prep Type: Total/NA

Prep Batch: 665406

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|-------|
| Cadmium | 0.0085 | | 0.200 | 0.227 | | mg/L | | 109 | 75 - 125 | 3 | 20 |
| Chromium | 0.079 | | 0.200 | 0.294 | | mg/L | | 108 | 75 - 125 | 2 | 20 |

Lab Sample ID: MB 480-665346/1-A

Matrix: Water

Analysis Batch: 665785

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 665346

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|--------|---------|------|---|----------------|----------------|---------|
| Cadmium | ND | | 0.0020 | 0.00050 | mg/L | | 04/17/23 08:19 | 04/17/23 21:57 | 1 |
| Chromium | ND | | 0.0040 | 0.0010 | mg/L | | 04/17/23 08:19 | 04/17/23 21:57 | 1 |

Lab Sample ID: LCS 480-665346/2-A

Matrix: Water

Analysis Batch: 665785

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 665346

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|------|---|------|----------------|
| Cadmium | 0.200 | 0.207 | | mg/L | | 104 | 80 - 120 |
| Chromium | 0.200 | 0.211 | | mg/L | | 105 | 80 - 120 |

QC Sample Results

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-665352/27

Matrix: Water

Analysis Batch: 665352

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------------|-----------------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 04/14/23 10:10 | 1 |

Lab Sample ID: MB 480-665352/53

Matrix: Water

Analysis Batch: 665352

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------------|-----------------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 04/14/23 10:10 | 1 |

Lab Sample ID: LCS 480-665352/28

Matrix: Water

Analysis Batch: 665352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|----------------|---------------|------------------|------|---|------|----------------|
| Chromium, hexavalent | 0.0500 | 0.0458 | | mg/L | | 92 | 85 - 115 |

Lab Sample ID: LCS 480-665352/54

Matrix: Water

Analysis Batch: 665352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|----------------|---------------|------------------|------|---|------|----------------|
| Chromium, hexavalent | 0.0500 | 0.0484 | | mg/L | | 97 | 85 - 115 |

Lab Sample ID: 480-207816-3 MS

Matrix: Water

Analysis Batch: 665352

Client Sample ID: MS-MW-9

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Chromium, hexavalent | 0.076 | | 0.0500 | 0.132 | | mg/L | | 114 | 85 - 115 |

Lab Sample ID: 480-207816-3 MSD

Matrix: Water

Analysis Batch: 665352

Client Sample ID: MSD-MW-9

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Chromium, hexavalent | 0.076 | | 0.0500 | 0.130 | | mg/L | | 109 | 85 - 115 | 2 | 20 |

QC Association Summary

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Metals

Prep Batch: 665346

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-207816-2 | MW-8 FILTERED | Dissolved | Water | 3005A | |
| MB 480-665346/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 480-665346/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Prep Batch: 665406

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-207816-1 | MW-8 | Total/NA | Water | 3005A | |
| 480-207816-3 | MW-9 | Total/NA | Water | 3005A | |
| 480-207816-4 | DUPLICATE | Total/NA | Water | 3005A | |
| MB 480-665406/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 480-665406/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| 480-207816-3 MS | MS-MW-9 | Total/NA | Water | 3005A | |
| 480-207816-3 MSD | MSD-MW-9 | Total/NA | Water | 3005A | |

Analysis Batch: 665785

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-207816-2 | MW-8 FILTERED | Dissolved | Water | 6010C | 665346 |
| MB 480-665346/1-A | Method Blank | Total Recoverable | Water | 6010C | 665346 |
| LCS 480-665346/2-A | Lab Control Sample | Total Recoverable | Water | 6010C | 665346 |

Analysis Batch: 665788

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-207816-1 | MW-8 | Total/NA | Water | 6010C | 665406 |
| 480-207816-3 | MW-9 | Total/NA | Water | 6010C | 665406 |
| 480-207816-4 | DUPLICATE | Total/NA | Water | 6010C | 665406 |
| MB 480-665406/1-A | Method Blank | Total/NA | Water | 6010C | 665406 |
| LCS 480-665406/2-A | Lab Control Sample | Total/NA | Water | 6010C | 665406 |
| 480-207816-3 MS | MS-MW-9 | Total/NA | Water | 6010C | 665406 |
| 480-207816-3 MSD | MSD-MW-9 | Total/NA | Water | 6010C | 665406 |

General Chemistry

Analysis Batch: 665352

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-207816-1 | MW-8 | Total/NA | Water | 7196A | |
| 480-207816-3 | MW-9 | Total/NA | Water | 7196A | |
| 480-207816-4 | DUPLICATE | Total/NA | Water | 7196A | |
| MB 480-665352/27 | Method Blank | Total/NA | Water | 7196A | |
| MB 480-665352/53 | Method Blank | Total/NA | Water | 7196A | |
| LCS 480-665352/28 | Lab Control Sample | Total/NA | Water | 7196A | |
| LCS 480-665352/54 | Lab Control Sample | Total/NA | Water | 7196A | |
| 480-207816-3 MS | MS-MW-9 | Total/NA | Water | 7196A | |
| 480-207816-3 MSD | MSD-MW-9 | Total/NA | Water | 7196A | |

Lab Chronicle

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Client Sample ID: MW-8

Date Collected: 04/13/23 13:00

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Prep | 3005A | | | 665406 | VAK | EET BUF | 04/17/23 08:23 |
| Total/NA | Analysis | 6010C | | 1 | 665788 | LMH | EET BUF | 04/18/23 05:26 |
| Total/NA | Analysis | 7196A | | 1 | 665352 | CLT | EET BUF | 04/14/23 10:10 |

Client Sample ID: MW-8 FILTERED

Date Collected: 04/13/23 13:15

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Dissolved | Prep | 3005A | | | 665346 | VAK | EET BUF | 04/17/23 08:19 |
| Dissolved | Analysis | 6010C | | 1 | 665785 | LMH | EET BUF | 04/17/23 23:52 |

Client Sample ID: MW-9

Date Collected: 04/13/23 12:45

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Prep | 3005A | | | 665406 | VAK | EET BUF | 04/17/23 08:23 |
| Total/NA | Analysis | 6010C | | 1 | 665788 | LMH | EET BUF | 04/18/23 05:30 |
| Total/NA | Analysis | 7196A | | 1 | 665352 | CLT | EET BUF | 04/14/23 10:10 |

Client Sample ID: DUPLICATE

Date Collected: 04/13/23 13:40

Date Received: 04/14/23 09:00

Lab Sample ID: 480-207816-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Prep | 3005A | | | 665406 | VAK | EET BUF | 04/17/23 08:23 |
| Total/NA | Analysis | 6010C | | 1 | 665788 | LMH | EET BUF | 04/18/23 05:41 |
| Total/NA | Analysis | 7196A | | 1 | 665352 | CLT | EET BUF | 04/14/23 10:10 |

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York | NELAP | 10026 | 03-31-24 |

- 1
- 2
- 3
- 4
- 5
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- 13
- 14

Method Summary

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

| Method | Method Description | Protocol | Laboratory |
|--------|--|----------|------------|
| 6010C | Metals (ICP) | SW846 | EET BUF |
| 7196A | Chromium, Hexavalent | SW846 | EET BUF |
| 3005A | Preparation, Total Metals | SW846 | EET BUF |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET BUF |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Geologic NY Inc
Project/Site: Geologic Project - 99011A

Job ID: 480-207816-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-207816-1 | MW-8 | Water | 04/13/23 13:00 | 04/14/23 09:00 |
| 480-207816-2 | MW-8 FILTERED | Water | 04/13/23 13:15 | 04/14/23 09:00 |
| 480-207816-3 | MW-9 | Water | 04/13/23 12:45 | 04/14/23 09:00 |
| 480-207816-4 | DUPLICATE | Water | 04/13/23 13:40 | 04/14/23 09:00 |

Ver: 06/04/2021

Login Sample Receipt Checklist

Client: Geologic NY Inc

Job Number: 480-207816-1

Login Number: 207816

List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

| Question | Answer | Comment |
|--|--------|------------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.3 #1 ICE |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | True | |