

April 29, 2024

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

Reference: 2024 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, 2023 to April 20, 2024.

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 (NYSDEC Site No. 704015 - C.A.E. Electronics), 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. 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 April 9, 2024 site visit, the building was occupied. The current tenants at the Site are summarized below:

- Roll N Vac. assemble and sell modified shop-vac type vacuums;
- Proforma Printing storage space.

<u>Sub-Slab Depressurization System - Monitoring & Maintenance</u>

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. George P. 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 has 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 George P. Morgan and GeoLogic.

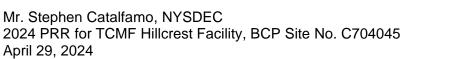
NYSDEC and NYSDOH are to be notified within 24 hours of failure of the SSDS.

Monitoring of the SSDS, for this reporting period, by GeoLogic included the following:

 A visual inspection of the SSDS components and building was completed by GeoLogic on April 9, 2024. Airflow readings and PID measurements were collected from within the accessible extraction pipes during the inspection. All PID readings have been 0 ppm, except where indicated otherwise in the tables below. During the April 9, 2024 site visit, the background PID reading was 0 ppm.

Summary Table - Vapor Mitigation System Air Flow Readings

				Extract	tion Po	int, Ai	r Flow	(feet-p	er-mir	nute)				
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	Effluent (PID (ppm))
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
2/20/1014	101	NA	196	179	NA	261	115	49	57	147	48	72	68	NM
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





		Extraction Point, Air Flow (feet-per-minute)												
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	Effluent (PID (ppm))
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 - b	lower	not wor	king		•	•	•	
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	169	123	28	42	83	0.1
4/13/2023	122	105	250	124	329	248	384	96	127	119	41	41	82	0
4/9/2024	178 [0.6]	107	265	158	331	276	307	81	139	110	44	27	101	0

Summary Table, continued

[0.1] = PID reading in ppm.

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Vapor Mitigation System Air Flow Readings

Extraction Point, A	ir Flow (f	eet-per-ı	minute)		Effluent
Date	14	15	16	17	(PID Reading)
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
4/9/2024	614	486	414	127	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, the annual groundwater monitoring event for monitoring wells MW-8 and MW-9 was completed on April 9, 2024.

The depth to groundwater was measured at each well and the data was used to develop the Water Table Elevations for the April 9, 2024 monitoring event (See Figure No. 2 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 April 9, 2024 sampling event were analyzed for cadmium, chromium and hexavalent chromium.

Field parameters (temperature, conductivity, dissolved oxygen (DO), pH, 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 I: Starting in 2020, turbidity was added to the field parameters. Note II: During the April 9, 2024 monitoring event, the turbidity unit was malfunctioning resulting in negative turbidity readings at MW-8. Calibration was completed in the field and turbidity measurements were able to be collected MW-9. However, due to the short hold times associated with laboratory analysis for hexavalent chromium, turbidity measurements were not able to be collected at MW-8.

Post-remediation, cadmium concentrations in groundwater have ranged from not-detected to 130 $\mu g/L$. 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 concentrations in the 2019 through 2024 samples from MW-8 were one order of magnitude lower. NYS Water Quality Standard for cadmium is 5 $\mu g/L$ (See Table 3).

Post-remediation, total chromium concentrations in groundwater have ranged from 19.6 μ g/L to 495 μ g/L. The highest concentration was observed at MW-8 in the November 14, 2018 sample. The concentrations in the 2019 through 2024 samples from MW-8 were lower. The NYS Water Quality Standard for chromium is 50 μ g/L (See Table 3).

Post-remediation, hexavalent chromium concentrations in groundwater have ranged from 22 μ g/L to 320 μ g/L. The highest concentration was observed at MW-3 in the November 13, 2019 sample. The concentrations in the 2020 through 2022 samples from MW-3 were lower. The NYS Water Quality Standard for hexavalent chromium is 50 μ g/L (See Table 3).



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

Recommendations

GeoLogic requests a modification to the laboratory analysis required as part of the groundwater monitoring program. The elimination of laboratory analysis for hexavalent chromium is requested. Historically, the concentrations of total chromium and hexavalent chromium detected in the groundwater samples are similar and total chromium concentrations reported in future samples will be sufficient to monitor chromium concentration trends at the Site. If an increase in total chromium concentrations is observed in future samples, the need to analyze groundwater samples for hexavalent chromium will be reevaluated.

If this request is acceptable, the SMP will be revised to reflect the modification to the groundwater monitoring program.

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

Prepared by,

GeoLogie 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: G.P. Morgan, TCMF

M. Schuck, NYSDOH C. Coddington, BCHD

cc: Fenton Public Library (paper copy only)

File: P:\PROJECTS\1999\99011A\REPORT\2024 Periodic Review Report\2024 PRR for Site No. C704045 TCMF - May 2024.doc

APPENDIX A
INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

PRR for Site No. C704045



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



Sit	e No.	C704045	Site Details	I	Box 1	
Sit	e Name TC	MF Hillcrest Facil	ity			
City Co	e Address: 4 y/Town: Bir unty:Broome e Acreage:	e	Zip Code: 13904			
Re	porting Perio	od: April 20, 2023 t	o April 20, 2024			
				,	YES	NO
1.	Is the inform	mation above corre	ct?	Ž	X	
	If NO, inclu	de handwritten abo	ove or on a separate sheet.			
2.		•	perty been sold, subdivided, merged, or undergo is Reporting Period?			X
3.		peen any change of RR 375-1.11(d))?	f use at the site during this Reporting Period			X
4.	•		or local permits (e.g., building, discharge) been is is Reporting Period?			X
			stions 2 thru 4, include documentation or evid n previously submitted with this certification			
5.	Is the site of	currently undergoin	g development?			
				I	Box 2	
				,	YES	NO
6.		ent site use consiste al and Industrial	ent with the use(s) listed below?	,	X	
7.	Are all ICs	in place and function	oning as designed?	X		
	IF TI		THER QUESTION 6 OR 7 IS NO, sign and date b TE THE REST OF THIS FORM. Otherwise contin		ıd	
Α (Corrective M	easures Work Plan	nmust be submitted along with this form to add	ress the	ese issu	ies.
 Sig	nature of Ow	ner, Remedial Party	or Designated Representative	Date		

		Box 2	Α
		YES	NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		X
	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)	X	
	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

<u>Parcel</u> Institutional Control Owner

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.

Binghamton Realty Inc. 129.05-4-5

> 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

Engineering Control Parcel

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.

Box !	5
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eng 2. For e	Periodic Review Report (PRR) Certification Statements fy by checking "YES" below that: a) the Periodic Review report and all attachments were prepared under the direct reviewed by, the party making the Engineering Control certification; b) to the best of my knowledge and belief, the work and conclusions described is are in accordance with the requirements of the site remedial program, and generatineering practices; and the information presented is accurate and compete.	n this ce	ertification
eng 2. For e	 a) the Periodic Review report and all attachments were prepared under the directive reviewed by, the party making the Engineering Control certification; b) to the best of my knowledge and belief, the work and conclusions described if are in accordance with the requirements of the site remedial program, and general program, and the information presented is accurate and compete. 	in this ce rally acc	ertification epted
2. For ea	reviewed by, the party making the Engineering Control certification; b) to the best of my knowledge and belief, the work and conclusions described i are in accordance with the requirements of the site remedial program, and generation practices; and the information presented is accurate and compete.	in this ce rally acc	ertification epted
2. Fore	are in accordance with the requirements of the site remedial program, and general ineering practices; and the information presented is accurate and compete.	rally acc	epted
2. Fore			NO
		X	
	ach Engineering control listed in Box 4, I certify by checking "YES" below that all ring statements are true:	of the	
	(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 Dep	partmen	t;
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	ealth and
	(c) access to the site will continue to be provided to the Department, to evaluate 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 Site Management Plan for this Control; and	th the	
	(e) if a financial assurance mechanism is required by the oversight document fo mechanism remains valid and sufficient for its intended purpose established in the		
		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 Corre	ective Measures Work Plan must be submitted along with this form to address the	hese iss	ues.
Signatu	re 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.

l <u>George Morgan</u> print name	at4 Nowlan rd bighhamton ny print business ad	'
am certifying as _Owner		(Owner or Remedial Party)
for the Site named in the Site Details S	section of this form.	
Signature of Owner, Remedial Party, o	/	_ <u>4/29/2024</u> 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.

am certifying as a Qualified Environmental Professional for the

(Owner or Remedial Party)

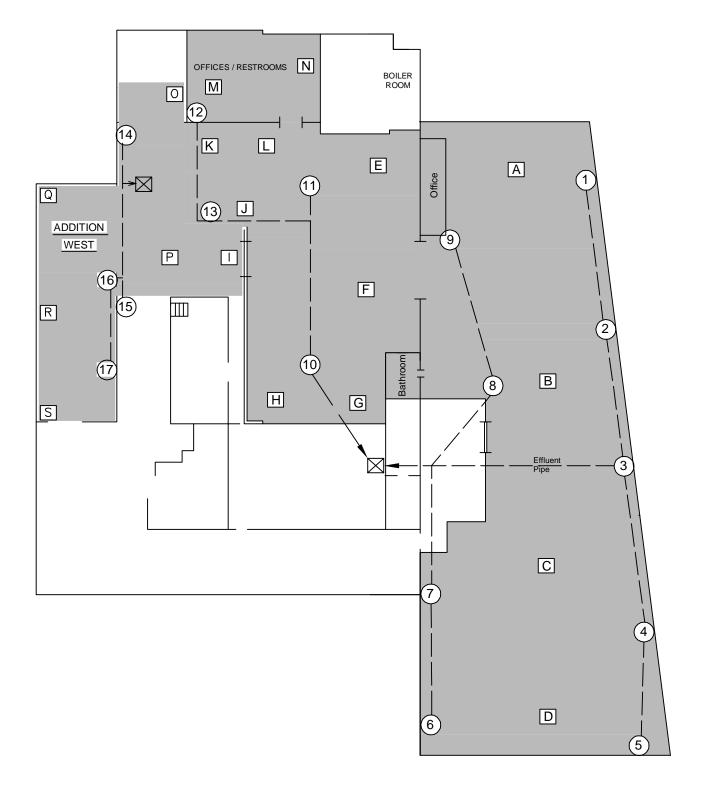
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp

(Required for PE)

APPENDIX B FIGURES

NOWLAN ROAD





EXTRACTION POINT-4" DIAMETER PVC PIPING

A PILOT POINT

ROTRON 404 AND 505 BLOWER

OCCUPIED AREA



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

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

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



North

Legend:

Monitoring Well Location (Approximate)

Groundwater Contour

Water Table Elevation, April 9, 2024

GeoLogic NY, P.C.

WATER TABLE ELEVATIONS - APRIL 2024 TRIPLE CITIES METAL FINISHING **BINGHAMTON, NEW YORK BCP SITE NO. 704045**

	011 = 1101 7010	. •			
DRAWN BY:	SCALE:	PROJECT NO:			
CTG	Not To Scale	99011A			
REVIEWED BY:	DATE:	FIGURE NO:			
FCE	APRIL 2024	2			

APPENDIX C TABLES

TABLE 1 **GROUNDWATER ELEVATIONS**

MV	W-3	MW	-ЗНА	MV	MW-4		V-5R	MW-6		MW-7R		MW-8		MW-9	
p of Well Screen evation 869.3		87	2.5	87	1.0	87	873.3		2.2	87	7.4	872.5		874.6	
ing 859.3 862.5		2.5	86	1.0	86	3.3	86	2.2	85	7.4	862.5		864.6		
Clevation COC Reference 899.30 Clevation		901.53		899	9.01	898	3.27	897.21		896	5.40	899.47		898.64	
DtoW	Elev.	DtoW	Elev.	DtoW	Elev.	DtoW	Elev.	DtoW	Elev.	DtoW	Elev.	DtoW	Elev.	DtoW	Elev.
30.75	868.55	NA		33.22	865.79	NA		28.58	868.63	22.75	873.65	NA		NA	
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
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
30.24	869.06	32.40	869.13	32.98	82.98 866.03		869.33	28.01	869.20	22.79	873.61	NA		29.51	869.13
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
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
29.40	869.90	31.55	869.98	NC		NC		NC		NC		29.50	869.97	28.64	870.00
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
29.16	870.14					28.05	870.22			19.09	877.31	29.26	870.21	28.40	870.24
29.57	869.73					28.45	869.82			20.60	875.80	29.68	869.79	28.85	869.79
29.62	869.68					28.52	869.75			20.27	876.13	29.79	869.68	28.91	869.73
30.45	868.85	Dest	royed	Aban	doned	29.30	868.97	Aban	doned	22.77	873.63	30.53	868.94	29.75	868.89
29.50	869.80	during v	winter of	in Dec	cember	NA		in Dec	ember	19.78	876.62	29.60	869.87	28.77	869.87
31.46	867.84	20	018	20	018	30.38	867.89	20	018		_	31.64	867.83	30.91	867.73
29.15	870.15					28.05	870.22			Abon	donad	29.25	870.22	28.40	870.24
Aban	doned					24.48	873.79			Aban	uonea	29.70	869.77	28.90	869.74
Aban	doned					28.05	870.22					29.31	870.16	28.47	870.17
	86 85 899 DtoW 30.75 29.92 30.93 30.24 29.05 30.30 29.40 28.97 29.16 29.57 29.62 30.45 29.50 31.46 29.15 Aban	859.3 899.30 DtoW Elev. 30.75 868.55 29.92 869.38 30.93 868.37 30.24 869.06 29.05 870.25 30.30 869.00 29.40 869.90 28.97 870.33 29.16 870.14 29.57 869.73 29.62 869.68 30.45 868.85 29.50 869.80 31.46 867.84	869.3 87 859.3 86 899.30 907 DtoW Elev. DtoW 30.75 868.55 NA 29.92 869.38 32.00 30.93 868.37 32.99 30.24 869.06 32.40 29.05 870.25 31.21 30.30 869.00 32.47 29.40 869.90 31.55 28.97 870.33 31.18 29.16 870.14 29.57 869.73 29.62 869.68 30.45 868.85 29.50 869.80 31.46 867.84 29.15 870.15 Abandoned	869.3 872.5 859.3 862.5 899.30 901.53 DtoW Elev. DtoW Elev. 30.75 868.55 NA 29.92 869.38 32.00 869.53 30.93 868.37 32.99 868.54 30.24 869.06 32.40 869.13 29.05 870.25 31.21 870.32 30.30 869.00 32.47 869.06 29.40 869.90 31.55 869.98 28.97 870.33 31.18 870.35 29.16 870.14 29.57 869.73 29.62 869.68 30.45 868.85 Destroyed during winter of 20.18 Abandoned	869.3 872.5 87 859.3 862.5 86 899.30 901.53 899 DtoW Elev. DtoW Elev. DtoW 30.75 868.55 NA 33.22 29.92 869.38 32.00 869.53 32.88 30.93 868.37 32.99 868.54 33.37 30.24 869.06 32.40 869.13 32.98 29.05 870.25 31.21 870.32 32.77 30.30 869.00 32.47 869.06 33.10 29.40 869.90 31.55 869.98 NC 28.97 870.33 31.18 870.35 32.65 29.16 870.14 29.57 869.73 29.62 869.68 30.45 868.85 Destroyed during winter of 31.46 867.84 29.15 870.15 Abandoned	869.3 872.5 871.0 859.3 862.5 861.0 899.30 901.53 899.01 DtoW Elev. DtoW Elev. 30.75 868.55 NA 33.22 865.79 29.92 869.38 32.00 869.53 32.88 866.13 30.93 868.37 32.99 868.54 33.37 865.64 30.24 869.06 32.40 869.13 32.98 866.03 29.05 870.25 31.21 870.32 32.77 866.24 30.30 869.00 32.47 869.06 33.10 865.91 29.40 869.90 31.55 869.98 NC 28.97 870.33 31.18 870.35 32.65 866.36 29.16 870.14 29.57 869.80 Abandoned Abandoned in December 31.46 867.84 2018 2018 Abandoned	869.3 872.5 871.0 87 859.3 862.5 861.0 86 899.01 898 DtoW Elev. DtoW Elev. DtoW 30.75 868.55 NA 29.92 869.38 32.00 869.53 32.88 866.13 28.58 30.93 868.37 32.99 868.54 33.37 865.64 29.81 30.24 869.06 32.40 869.13 32.98 866.03 28.94 29.05 870.25 31.21 870.32 32.77 866.24 27.56 30.30 869.90 31.55 869.98 NC NC 28.97 870.33 31.18 870.35 32.65 866.36 27.88 29.50 869.68 30.45 868.85 Destroyed during winter of 29.50 Abandoned Abandoned NA 31.46 867.84 2018 2018 30.38 29.15 </td <td>869.3 872.5 871.0 873.3 859.3 862.5 861.0 863.3 899.30 901.53 899.01 898.27 DtoW Elev. DtoW Elev. DtoW Elev. 30.75 868.55 NA 33.22 865.79 NA 29.92 869.38 32.00 869.53 32.88 866.13 28.58 869.69 30.93 868.37 32.99 868.54 33.37 865.64 29.81 868.46 30.24 869.06 32.40 869.13 32.98 866.03 28.94 869.33 29.05 870.25 31.21 870.32 32.77 866.24 27.56 870.71 30.30 869.00 32.47 869.06 33.10 865.91 29.17 869.10 29.40 869.90 31.55 869.98 NC NC NC 29.57 869.73 28.95 866.36 27.88 870.32 29.57 869.85 Abandoned Abandoned 28.52</td> <td>869.3 872.5 871.0 873.3 87 859.3 862.5 861.0 863.3 86 899.01 898.27 897 DtoW Elev. DtoW</td> <td>869.3 872.5 871.0 873.3 872.2 859.3 862.5 861.0 863.3 862.2 899.30 901.53 899.01 898.27 897.21 DtoW Elev. DtoW</td> <td>869.3 872.5 871.0 873.3 872.2 87 859.3 862.5 861.0 863.3 862.2 85 899.30 901.53 899.01 898.27 897.21 896 DtoW Elev. DtoW El</td> <td>869.3 872.5 871.0 873.3 872.2 877.4 859.3 862.5 861.0 863.3 862.2 857.4 899.01 898.27 897.21 896.40 DtoW Elev. DtoW Elev.</td> <td>869.3 872.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.2 877.4 877.4 877.2 877.4 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 <</td> <td>869.3 889.3 887.3 87.2 887.4 887.5 887.5 887.3 87.2 887.2 887.2 887.2 887.2 887.2 887.2 889.4 889.4 889.5 889.0 898.27 889.2 899.1 898.27 897.1 899.1 898.27 897.1 899.1 899.1 899.2 898.55 NA Elev DtoW Elev Below Sept<</td> <td>869.3 872.5 871.0 873.3 872.2 877.4 872.5 87 859.3 90.1 53 899.01 863.3 862.2 857.4 899.47 899.47 899.47 800 50 90.1 53 899.01 898.27 897.21 896.40 899.47 899.</td>	869.3 872.5 871.0 873.3 859.3 862.5 861.0 863.3 899.30 901.53 899.01 898.27 DtoW Elev. DtoW Elev. DtoW Elev. 30.75 868.55 NA 33.22 865.79 NA 29.92 869.38 32.00 869.53 32.88 866.13 28.58 869.69 30.93 868.37 32.99 868.54 33.37 865.64 29.81 868.46 30.24 869.06 32.40 869.13 32.98 866.03 28.94 869.33 29.05 870.25 31.21 870.32 32.77 866.24 27.56 870.71 30.30 869.00 32.47 869.06 33.10 865.91 29.17 869.10 29.40 869.90 31.55 869.98 NC NC NC 29.57 869.73 28.95 866.36 27.88 870.32 29.57 869.85 Abandoned Abandoned 28.52	869.3 872.5 871.0 873.3 87 859.3 862.5 861.0 863.3 86 899.01 898.27 897 DtoW Elev. DtoW	869.3 872.5 871.0 873.3 872.2 859.3 862.5 861.0 863.3 862.2 899.30 901.53 899.01 898.27 897.21 DtoW Elev. DtoW	869.3 872.5 871.0 873.3 872.2 87 859.3 862.5 861.0 863.3 862.2 85 899.30 901.53 899.01 898.27 897.21 896 DtoW Elev. DtoW El	869.3 872.5 871.0 873.3 872.2 877.4 859.3 862.5 861.0 863.3 862.2 857.4 899.01 898.27 897.21 896.40 DtoW Elev. DtoW Elev.	869.3 872.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.4 877.2 877.4 877.2 877.4 877.4 877.2 877.4 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 879.2 <	869.3 889.3 887.3 87.2 887.4 887.5 887.5 887.3 87.2 887.2 887.2 887.2 887.2 887.2 887.2 889.4 889.4 889.5 889.0 898.27 889.2 899.1 898.27 897.1 899.1 898.27 897.1 899.1 899.1 899.2 898.55 NA Elev DtoW Elev Below Sept<	869.3 872.5 871.0 873.3 872.2 877.4 872.5 87 859.3 90.1 53 899.01 863.3 862.2 857.4 899.47 899.47 899.47 800 50 90.1 53 899.01 898.27 897.21 896.40 899.47 899.

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 decommisioned.



TABLE 2 FIELD PARAMETERS

Well	Date	Temp. (°C)	Conductivity (mS/cm)	DO (mg/L)	pН	ORP	Turbidit (NTU)
	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	
MW-3	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		<u> </u>	•			
	4/9/2024			Aband	loned		
	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
	1/4/2017	NS					1
	5/3/2017	12.31	1.375	10.01	7.71	252.8	1
	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	-
MW-8	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
	4/9/2024	12.20	0.664	9.72	7.57	259.5	NA
	4/11/2016	12.90	0.870	7.24	8.29	51.1	11/1
	10/25/2016	14.88	0.705	10.16	8.63	230.6	1
	1/4/2017	14.69	1.230	10.60	8.29	168.5	1
	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	1
	5/24/2018	12.36	0.778	10.22	7.80	243.9	1
	11/14/2018	14.69	0.786	9.44	7.74	181.0	1
	5/23/2019	11.87	0.690	16.96	7.74	281.7	1
MW-9	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	12.79	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	9.04	7.70	63.7	299.0
	4/13/2023	13.20	0.735	9.70	7.77		1,039.0
	4/13/2023	12.30	0.735	9.28 9.46	7.17	214.4	
	4/7/2U24	12.30	0.623	9.40	1.19	306.3	383.4

GeoLogic

TABLE 3
SUMMARY OF 2016 - 2024 GROUNDWATER METALS ANALYTICAL RESULTS

Well	Date	Cadmium	Chromium	Hexavalent Chromium
	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
MW-3	5/23/2019	7.5	125	110
171 77 -3	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
	4/11/2016		andoned	11NT / A
	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
MW-3HA	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
	4/44/2046		yed Winter 2018	113.7.1.4
	4/11/2016	<3 U	54.8	#N/A
	10/25/2016	7.9	254	#N/A
	1/4/2017	10.0	Not Accessible	100
	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
MW-8	5/23/2019	12.9	267	250
1,1,1,	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
	4/9/2024	20	220	180
	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
MW-9	5/23/2019	11.9	82.8	75
1 V1 VV - 7	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	76
	4/13/2023	0.0		
	4/9/2024	5.5	69	59

Notes: #N/A = Not analyzed.

All concentrations in micrograms per liter $(\mu g/L)$ = 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 REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Christopher T Gabriel Geologic NY Inc PO BOX 350 37 Copeland Ave Homer, New York 13077 Generated 4/19/2024 1:11:45 PM

JOB DESCRIPTION

TCMF Groundwater Sampling - 99011A

JOB NUMBER

480-218647-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298



Eurofins Buffalo

Job Notes

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Laboratory Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

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Definitions/Glossary

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Glossary

LOQ

Giossaiy	
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)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

MLMinimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Geologic NY Inc Job ID: 480-218647-1

Project: TCMF Groundwater Sampling - 99011A

Job ID: 480-218647-1 Eurofins Buffalo

Job Narrative 480-218647-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/10/2024 10:30 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 time was 3.3°C.

Metals

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

General Chemistry

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

Eurofins Buffalo

4/19/2024

Detection Summary

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Client Sample ID: MW-8	Lab Sample ID: 480-218647-
------------------------	----------------------------

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.020	0.0020	0.00050	mg/L	1	_	6010C	Total/NA
Chromium	0.22	0.0040	0.0010	mg/L	1		6010C	Total/NA
Chromium, hexavalent	0.18	0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: MW-9 Lab Sample ID: 480-218647-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0055	0.0020	0.00050	mg/L	1	_	6010C	Total/NA
Chromium	0.069	0.0040	0.0010	mg/L	1		6010C	Total/NA
Chromium, hexavalent	0.059	0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: DUPE Lab Sample ID: 480-218647-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	: D	Method	Prep Type
Cadmium	0.020		0.0020	0.00050	mg/L		_	6010C	Total/NA
Chromium	0.21		0.0040	0.0010	mg/L	•		6010C	Total/NA
Chromium, hexavalent	0.35		0.010	0.0050	mg/L	•		7196A	Total/NA

Client Sample Results

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Lab Sample ID: 480-218647-1 **Client Sample ID: MW-8**

Date Collected: 04/09/24 12:50 **Matrix: Water**

Date Received: 04/10/24 10:30

Method: SW846 6010C -	Metals (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.020	0.0020	0.00050	mg/L		04/12/24 10:43	04/13/24 00:49	1
Chromium	0.22	0.0040	0.0010	mg/L		04/12/24 10:43	04/15/24 14:23	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846	0.18		0.010	0.0050	mg/L			04/10/24 11:45	1
74000									

Lab Sample ID: 480-218647-2 **Client Sample ID: MW-9**

Date Collected: 04/09/24 12:40 **Matrix: Water**

Date Received: 04/10/24 10:30

Method: SW846 6010C - M	etals (ICP)							
Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0055	0.0020	0.00050	mg/L		04/12/24 10:43	04/13/24 00:53	1
Chromium	0.069	0.0040	0.0010	mg/L		04/12/24 10:43	04/15/24 14:27	1
General Chemistry								
Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: DUPE Lab Sample ID: 480-218647-3 **Matrix: Water**

0.010

0.059

0.0050 mg/L

Date Collected: 04/09/24 12:35 Date Received: 04/10/24 10:30

Chromium, hexavalent (SW846

7196A)

7196A)

Method: SW846 6010C - Metals	s (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Cadmium	0.020		0.0020	0.00050	mg/L		04/12/24 10:43	04/13/24 01:21	
Chromium	0.21		0.0040	0.0010	mg/L		04/12/24 10:43	04/15/24 14:54	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chromium, hexavalent (SW846	0.35		0.010	0.0050	mg/L			04/10/24 11:45	

04/10/24 11:45

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-707315/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 707574

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.0020 04/12/24 10:43 04/13/24 00:42 Cadmium ND 0.00050 mg/L

Lab Sample ID: MB 480-707315/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 707827

MB MB

Result Qualifier RL **MDL** Unit Prepared Dil Fac Analyte Analyzed 0.0040 0.0010 mg/L 04/12/24 10:43 04/15/24 14:17 Chromium ND

Lab Sample ID: LCS 480-707315/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 707574

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Cadmium 0.500 0.538 108 80 - 120 mg/L

Lab Sample ID: LCS 480-707315/2-A **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 707827 Prep Batch: 707315 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

0.500 0.500 80 - 120 Chromium mg/L 100

Lab Sample ID: 480-218647-2 MS

Matrix: Water

Analysis Batch: 707574

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec 0.500 0.546 108 75 - 125 Cadmium 0.0055 mg/L

Lab Sample ID: 480-218647-2 MS

Matrix: Water

Analysis Batch: 707827

Prep Batch: 707315 Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 0.069 0.500 Chromium 0.562 mg/L 99 75 - 125

Lab Sample ID: 480-218647-2 MSD

Matrix: Water

Analysis Batch: 707574 Prep Batch: 707315 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.0055 0.500 75 - 125 Cadmium 0.544 mg/L 108 0

Lab Sample ID: 480-218647-2 MSD

Matrix: Water

Prep Type: Total/NA **Analysis Batch: 707827 Prep Batch: 707315** Spike MSD MSD %Rec **RPD** Sample Sample Result Qualifier **RPD** Added Limits Analyte Result Qualifier Unit %Rec Limit Chromium 0.069 0.500 75 - 125 0.550 mg/L 96

Eurofins Buffalo

Prep Type: Total/NA

Prep Batch: 707315

Prep Batch: 707315

Prep Batch: 707315

Client Sample ID: MW-9-MS

Client Sample ID: MW-9-MS

Client Sample ID: MW-9-MSD

Prep Type: Total/NA

Prep Batch: 707315

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: MW-9-MSD

4/19/2024

QC Sample Results

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-707057/3

Matrix: Water

Analysis Batch: 707057

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.010 04/10/24 11:45 Chromium, hexavalent ND 0.0050 mg/L

Lab Sample ID: LCS 480-707057/4

Matrix: Water

Analysis Batch: 707057

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 0.0500 85 - 115 Chromium, hexavalent 0.0528 mg/L 106

Lab Sample ID: 480-218647-2 MS

Matrix: Water

Analysis Batch: 707057

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec Chromium, hexavalent 0.057 0.0500 0.103 93 85 - 115 mg/L

Lab Sample ID: 480-218647-2 MSD

Matrix: Water

Analysis Batch: 707057

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chromium, hexavalent 0.057 0.0500 0.107 101 85 - 115 mg/L

Lab Sample ID: 480-218647-1 DU

Matrix: Water

Analysis Batch: 707057

DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier RPD Unit D Limit Chromium, hexavalent 0.18 0.183 20 mg/L

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: MW-8

Prep Type: Total/NA

Client Sample ID: MW-9-MS

Client Sample ID: MW-9-MSD

QC Association Summary

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Metals

Prep Batch: 707315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218647-1	MW-8	Total/NA	Water	3005A	
480-218647-2	MW-9	Total/NA	Water	3005A	
480-218647-3	DUPE	Total/NA	Water	3005A	
MB 480-707315/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-707315/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-218647-2 MS	MW-9-MS	Total/NA	Water	3005A	
480-218647-2 MSD	MW-9-MSD	Total/NA	Water	3005A	

Analysis Batch: 707574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218647-1	MW-8	Total/NA	Water	6010C	707315
480-218647-2	MW-9	Total/NA	Water	6010C	707315
480-218647-3	DUPE	Total/NA	Water	6010C	707315
MB 480-707315/1-A	Method Blank	Total/NA	Water	6010C	707315
LCS 480-707315/2-A	Lab Control Sample	Total/NA	Water	6010C	707315
480-218647-2 MS	MW-9-MS	Total/NA	Water	6010C	707315
480-218647-2 MSD	MW-9-MSD	Total/NA	Water	6010C	707315

Analysis Batch: 707827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218647-1	MW-8	Total/NA	Water	6010C	707315
480-218647-2	MW-9	Total/NA	Water	6010C	707315
480-218647-3	DUPE	Total/NA	Water	6010C	707315
MB 480-707315/1-A	Method Blank	Total/NA	Water	6010C	707315
LCS 480-707315/2-A	Lab Control Sample	Total/NA	Water	6010C	707315
480-218647-2 MS	MW-9-MS	Total/NA	Water	6010C	707315
480-218647-2 MSD	MW-9-MSD	Total/NA	Water	6010C	707315

General Chemistry

Analysis Batch: 707057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218647-1	MW-8	Total/NA	Water	7196A	
480-218647-2	MW-9	Total/NA	Water	7196A	
480-218647-3	DUPE	Total/NA	Water	7196A	
MB 480-707057/3	Method Blank	Total/NA	Water	7196A	
LCS 480-707057/4	Lab Control Sample	Total/NA	Water	7196A	
480-218647-2 MS	MW-9-MS	Total/NA	Water	7196A	
480-218647-2 MSD	MW-9-MSD	Total/NA	Water	7196A	
480-218647-1 DU	MW-8	Total/NA	Water	7196A	

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Lab Chronicle

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Client Sample ID: MW-8

Date Received: 04/10/24 10:30

Lab Sample ID: 480-218647-1 Date Collected: 04/09/24 12:50

Matrix: Water

Batch Batch Dilution Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab Total/NA 3005A 707315 EMO EET BUF 04/12/24 10:43 Prep Total/NA 6010C 707574 NZG 04/13/24 00:49 Analysis 1 **EET BUF** Total/NA Prep 3005A 707315 EMO **EET BUF** 04/12/24 10:43 Total/NA 04/15/24 14:23 Analysis 6010C 1 707827 NZG **EET BUF** Total/NA Analysis 7196A 707057 KM **EET BUF** 04/10/24 11:45 1

Client Sample ID: MW-9 Lab Sample ID: 480-218647-2

Matrix: Water

Date Collected: 04/09/24 12:40 Date Received: 04/10/24 10:30

Dilution **Prepared** Batch **Batch Batch** Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab Total/NA 3005A 707315 EMO 04/12/24 10:43 Prep EET BUF Total/NA Analysis 6010C 1 707574 NZG **EET BUF** 04/13/24 00:53 Total/NA 04/12/24 10:43 Prep 3005A 707315 EMO **EET BUF** Total/NA Analysis 6010C 707827 NZG **EET BUF** 04/15/24 14:27 1 04/10/24 11:45 Total/NA Analysis 7196A 1 707057 KM **EET BUF**

Client Sample ID: DUPE Lab Sample ID: 480-218647-3

Date Collected: 04/09/24 12:35 **Matrix: Water**

Date Received: 04/10/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			707315	EMO	EET BUF	04/12/24 10:43
Total/NA	Analysis	6010C		1	707574	NZG	EET BUF	04/13/24 01:21
Total/NA	Prep	3005A			707315	EMO	EET BUF	04/12/24 10:43
Total/NA	Analysis	6010C		1	707827	NZG	EET BUF	04/15/24 14:54
Total/NA	Analysis	7196A		1	707057	KM	EET BUF	04/10/24 11:45

Laboratory References:

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

Accreditation/Certification Summary

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

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Method Summary

Client: Geologic NY Inc Job ID: 480-218647-1

Project/Site: TCMF Groundwater Sampling - 99011A

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

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Sample Summary

Client: Geologic NY Inc Project/Site: TCMF Groundwater Sampling - 99011A Job ID: 480-218647-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-218647-1	MW-8	Water	04/09/24 12:50	04/10/24 10:30
480-218647-2	MW-9	Water	04/09/24 12:40	04/10/24 10:30
480-218647-3	DUPE	Water	04/09/24 12:35	04/10/24 10:30

Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record

🚁 eurofins	Engineering to Testi
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hone: 716-691-2600 Fac 716-691-7991	Sampler			Lab PM						Carrier	Trechag	No(s)	-	. 10	No: 194882-405	77.4	
lient information	Joe Me	onze			ati, Jol	hn				State of	Origin.	/Ic	acı	17	194882-403)(f.1	
lier Contact. Ir. Christopher Gabriel	Phone:				Benina	ti@e	Leurol	insus.c	om			110	20	IP	age 1 of 1		
ompany.		F	WSE					An	alysis R	equest	ed	# 1	26	W	90 W.		
Seologic NY Inc	Due Dale Requested:	1				П								100	reservation Co	des: M - Hexane	
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iny. Iomer	IVI tendinamine (enthe):			- 1	100			11		11		1 1			C - Zn Acetule C - Nilde Acid	P - Na2O4S	
late, Zlp.	Compliance Project:	Δ Yes Δ	No		18										E - NaHSO4 F - MeOH	Q - Ne2903 R - Ne28203	
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307-749-5000(Tel)	99011A	_			or No)	П									i - Ice J - Di Water	U - Acetone V - MCAA	
meil ChrisG@geologic.net	250/				r No	L	ž į								K-EDTA	W - pH 4-5 Y - Trizma	
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MW-9-MSD	4-9-24 17		G	Water	Н	×	X.	_							OLINIA INI MINI MINI	Au -	
DUPE	4-9-241	1:35	6	Water	Ш	人	X					Ш				1,0	
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Possible Hazard identification Non-Hazard Flammable Skin Imitant	Poison B Unknow	D	Radiologic	al	ľ		Return	To Clie	ent [Dispo	sal By	Lab		Arcf	ed longer than nive For	Month	18
Non-Hazard Flammable Skin Imitant Deliverable Requested: I, II, III, IV, Other (specify)	Pulson D Olimber		Titouris and		s	pecia	ıl instr	uctiona/	QC Requir	ements:							
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Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record

Francisco Te

hone: 716-891-2600 Fax: 716-891-7991	Sampler.	1enze	1	Lab Pl Benir	M: nati, Jo	hn			Carri	or Tr	Vr2	CL	19	oc No: 194882-40577.1
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ChrisG@geologic.net roject Name.	Project#				te (Yes	Cac	휠							L-EDA Y-Trtzma L-EDA Z-other (specify)
Froundwater Sampling - 99011A	48026360				910	ş	8		1.1		1 1		1	Other:
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TCMF			Campia	Matrix	Page 1	- Metals (ICP)	E							
			Sample Type		Fitte	į	7196A - Chromism, Hexavalent						Total Nur	
		Sample	(C≔Comp,	(til-unior, S-volki, O-motiviali,	ple st	8010C	8		11		1 1		80	Special Instructions/Note:
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WW-9	4-9-24	12:40	6	Water		×	X							
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MW-9-MS			1	Motor	++	-	1				11			
MW-9-MSD	4-9-24			Water	++	X	1	+++	+	10000				II NI INI NI III NI
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Possible Hazard Identification					s			osar (A 199 m To Client	My Dy asi	розві Ву	Loh			live For Months
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Custody Seals Intact: Custody Seal No.:												7	-	Ver: 06/08/2021

N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO4
S - H2SO4
T - TSP Dodecahydrate Special Instructions/Note: other (specify) Ver: 06/08/2021 U - Acetone V - MCAA W - pH 4-5 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Sisposal By Lab Archive For Mon 13CUS 00194882-40577.1 reservation Codes 030 H - Ascorbic Acid Page 1 of 1 Job# A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH 1 - Ice J - DI Water K - EDTA G - Amchlor -- EDA a 480-218647 Chain of Custody Total Number of containers 7.9.29 Method of Shipment **Analysis Requested** Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements: E-Mail: John Beninati@et.eurofinsus.com Return To Client × × × × × × × × × 10,b0 - (901) sisteM - 20108 Lab PM. Beninati, John Time: Fleid Filtered Sample (Yes or No) RINTHAM ARAM 0 Water Water Matrix Preservation Code Water Water Water Radiological Type (C=comp, Sample G=grab) 500 PWSID Qu'i 0 0 B 0 S A Yes A No Joe Menze 12:50 4-9-24 12:40 4-9-24 12:40 4-9-24 12:40 -9-24/12:35 Sample Time Date Due Date Requested: Unknown (AT Requested (days): Compliance Project: Date/Time 524 Sample Date 4-6-4 Project # 48026360 SSOW# 99011A # OM Poison B Skin Imitant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Flammable Groundwater Sampling - 99011A Possible Hazard Identification
Non-Hazard Flammab PO BOX 350 37 Copeland Ave Empty Kit Relinquished by Custody Seals Intact: Mr. Christopher Gabriel Client Information Sample Identification ChrisG@geologic.net A Yes A No 607-749-5000(Tel) TUMF Geologic NY Inc WW- 9-MSD élinquished by WW- 9-WIS State, Ztp. NY, 13077 Homer MW-9 DUPE MW-8 Page 17 of 19 4/19/2024

Environment Testing

💸 eurofins

Chain of Custody Record

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

EUROTINS Buffalo

10 Hazelwood Drive

10 Hazelwood Drive Amherst, NY 14228-2298 Phone 716-891-2600 Fay: 716-891-7001	Chain of Custody Record	ody Record	🐫 eurofins Environment Testing
Client Information	Sampler Men 22	Lab PM Beninati, John	Coc No Co
Cileni Contact Mr. Christopher Gabriel	Į.	E-Mail: John. Beninati@et. eurofinsus.com	State of Origin. Page. Page 1 of 1
Company. Geologic NY Inc	DISMA	Analysis Requested	CZZ#
Address. PO BOX 350 37 Copeland Ave	Due Date Requested:		
	TAT Requested (days):		A + HCL Normania B NaOH Normania C - 27 Aretain O - AsN8O2
State, Zip; NY, 13077	Compliance Project: A Yes A No		D. Nitrice D. Na2OdS D. Nitrice D. Na2SO3 E. NaHSO4 D. NASSO3
Phone. 607-749-5000(Tel)	Po#. 99011A	(4)	
Email ChrisG@geologic.net	WO#	(2)	1 - Ice J - Di Water
Project Name. Groundwater Sampling - 99011A	Project # 48026360	10 es	
Site TCMP	\$SOW#	(43) - (43)	Other:
Sample Identification	Sample Type (C=comp. c	Matrix Matrix Matrix Management Management Matrix M	redmuM lato
	Preserva	, o X	Special instructions/Note:
WW-8	4-9-24 12:50 6	×	
6-MW	12.80	Water	
of.	-9-24 12:40	Water × ×	
DSW- G-WSD	-9-24 12:40	Water ×	
DUPE	-9-24 12:35	Water × ×	
	0/3		0.0000000000000000000000000000000000000
	(4)		400-21004/ Chain of Custody
	75/		
ant	Poison B Unknown Radiological	Sample Disposal (A fee may be	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Arrhive For Months
Deliverable Requested 1, II, III, IV, Other (specify)		Special Instructions/QC Requirements	ents:
Empty Kit Relinquished by	Date:	Time:	Method of Shipment.
Refinquished by M. M.	8 15:03	Company Received by -	Date/Time
Reinquished by Cuffild	Date/Time Con Con	Company Required by:	Date Mine 1030 Company
		Company (Managed by	Date/Time: Company
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks	#1313
4			Ver: 06/08/2021

EUROTINS BUffalo

Client: Geologic NY Inc Job Number: 480-218647-1

Login Number: 218647 List Source: Eurofins Buffalo

List Number: 1

Creator: Wallace, Cameron

Creator: Wallace, Cameron		
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	
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.	N/A	
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.	N/A	