Proactive by Design

AUGUST 2023
POST-INJECTION GROUNDWATER MONITORING REPORT
Former Signore Inc.
55-57 Jefferson Street
Ellicottville, New York 14731

April 12, 2024
File No. 21.0056367.68

PREPARED FOR:
Iskalo Ellicottville Holdings LLC
Williamsville, New York

GZA GeoEnvironmental of New York
300 Pearl Street, Suite 700 | Buffalo, New York 14202
716-685-2300

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GZA GeoEnvironmental of NY
300 Pearl Street
Suite 700
Buffalo, NY 14202
T: 716.685.2300
F: 716.248.1472
www.gza.com

VIA EMAIL

April 12, 2024
File No. 21.0056367.68

Mr. David Chiazza
Iskalo Ellicottville Holdings LLC
Harbinger Square
5166 Main Street
Williamsville, New York 14221
dchiazza@iskalo.com

Re: August 2023 Post-Injection Groundwater Monitoring Report
Former Signore, Inc.
55-57 Jefferson Street
Ellicottville, New York 14731 (Site)
NYSDEC Site No. C905034

Mr. Chiazza:

GZA GeoEnvironmental of New York (GZA) submits this post-injection groundwater monitoring report to Iskalo Ellicottville Holdings LLC (Client). The report presents the analytical results of sampling conducted at the above referenced Site on August 7, 2023. The monitoring is required by the New York State Department of Environmental Conservation (NYSDEC) as specified in the Decision Document for Brownfield Cleanup Program (BCP) Site Number C905034 (July 2015) and in accordance with the approved revised Site Management Plan (SMP) dated November 2023.

The remedial injection program and first round of post-injection monitoring (August 2015) were described in the Final Engineering Report for the Site remedy (October 2015). Per the SMP, semi-annual post-injection groundwater monitoring was conducted until July 2017. Considering the established rate of chlorinated volatile organic compound (cVOC) reduction observed, NYSDEC approved modification of the SMP for annual post-injection monitoring in Fall 2017.

The August 2023 sampling event was the 10th round of post-injection monitoring conducted. This data report provides Site figures, well development forms, an analytical data summary table, graphs of pre- and post- injection concentrations of cVOCs in groundwater, and the laboratory data report for the seven wells sampled.

The body of data collected since remedial injections indicates reductive dichlorination has effectively decreased groundwater cVOC concentrations as intended; and that a slow and steady overall trend of cVOC reduction has been established. However, recent data indicates Site groundwater has returned to an oxidizing environment characteristic of that prior to treatment. Additionally, trichloroethene (TCE) concentrations in monitoring well SP-32 and both tetrachloroethene (PCE) and TCE concentrations in SP-43 have increased above their respective Class GA Criteria over the last two annual sampling events.

The analytical results provide data for documentation of concentrations of cVOCs present in the on-Site groundwater. Groundwater cVOC concentrations measured at 99 months post-Organic Carbon Electron Donor Substrate (OCEDS) injection (August 2023) indicate the groundwater in the sampled monitoring wells/treatment area has returned to pre-treatment oxidizing conditions. While natural attenuation can occur in these conditions, it is most effective at low concentrations and for compounds having relatively few chlorines. Biotic degradation of the more chlorinated compounds, including PCE and TCE, is very slow and particularly ineffective at higher concentrations. In situations where reductive dechlorination has removed the parent compounds PCE and TCE, a change to oxidizing conditions can be beneficial for remediation of the daughter products cis-1,2-dichloroethene (DCE) and vinyl chloride (VC). However, if undissolved PCE and TCE remain, oxidative degradation may not be able to keep pace with their rate of dissolution.

Parent PCE and TCE concentrations had increased in monitoring well SP-45 in the two sampling events conducted since June 2019 (PCE at 17 µg/L, TCE at 4.6 µg/L). Concentrations increased in September 2021 (PCE at 130 µg/L, TCE at 26 µg/L) and September 2022 (PCE at 260 µg/L, TCE at 55 µg/L). In August 2023, parent PCE and TCE concentrations have decreased (PCE at 8 µg/L, TCE at 11 µg/L). SP-45 is located on the western portion of the OCEDS injection area (**Figure 3**).

One important exception to the trend of returning to an oxidizing environment is noted: results from the downgradient well EW-1.25R (**Figure 2**) show that reductive dichlorination is continuing to keep cVOC concentrations low. This well is located proximate to the southern BCP Site boundary and downgradient of the injection area.

Post-injection sampling will continue annually in accordance with the SMP.

Should you have any questions or require additional information following your review, please contact Thomas Bohlen at 716-570-5983.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen, P.G.
Senior Project Manager

Jeremiah Duncan, Ph.D.
Senior Chemist

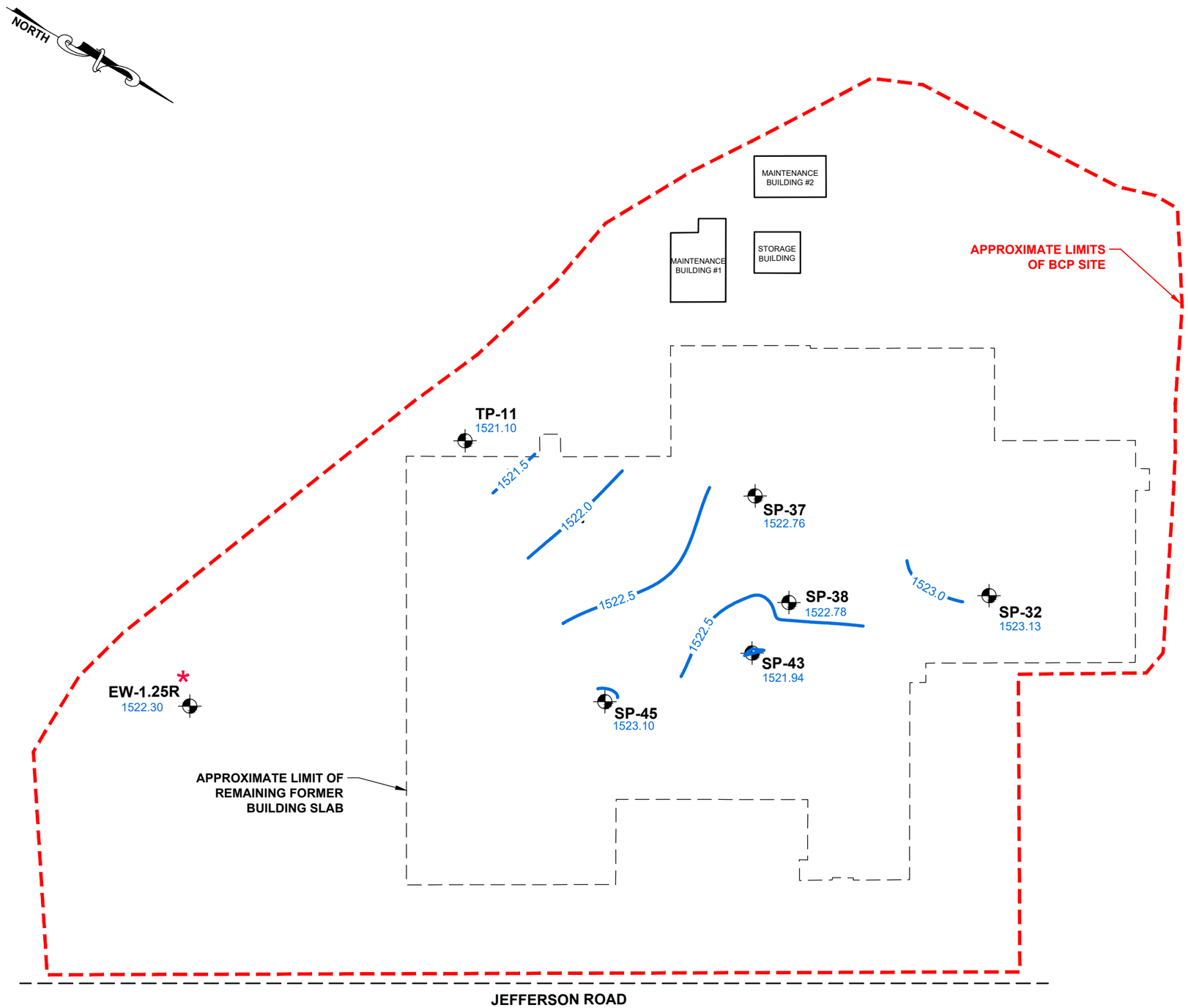
Bart A. Klettke, P.E.
Principal

cc: Megan Kuczka, NYSDEC; Angela Martin, New York State Department of Health (NYSDOH)

ATTACHMENTS

FIGURE 1	MICROWELL GROUNDWATER ELEVATION CONTOUR PLAN
FIGURE 2	CHLORINATED VOLATILE ORGANIC COMPOUND CONCENTRATIONS – JUNE 2019 THROUGH AUGUST 2023
FIGURE 3	LOCATION OF ORGANIC CARBON ELECTRON DONOR SUBSTRATE INJECTIONS
ATTACHMENT A	LIMITATIONS
ATTACHMENT B	WELL DEVELOPMENT FORMS
ATTACHMENT C	GROUNDWATER ANALYTICAL RESULTS SUMMARY
ATTACHMENT D	CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS MEASURED IN GROUNDWATER
ATTACHMENT E	LABORATORY REPORT

FIGURES



LEGEND:

- **SP-37** 1522.76 — APPROXIMATE LOCATION AND DESIGNATION OF 1" MICROWELL.GROUNDWATER ELEVATION MEASURED ON AUGUST 7, 2023.
- 1522.0 — APPROXIMATE LOCATION AND ELEVATION OF GROUNDWATER CONTOUR LINE BASED ON MEASUREMENTS TAKEN ON AUGUST 7, 2023.
- * — GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING

NOTES:

1. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 40 80 160

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

AUG. 2023 POST-INJECTION GROUNDWATER MONITORING REPORT, MICROWELL GROUNDWATER ELEVATION CONTOUR PLAN

PREPARED BY:	PREPARED FOR:		
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	ISKALO ELLICOTTVILLE HOLDINGS, LLC		
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 1
DESIGNED BY: TB	DRAWN BY: TAK	SCALE: 1" = 80'	
DATE: AUGUST 2023	PROJECT NO. 21.0056367.68	REVISION NO.	

Sample Location Sample Date	Class GA Criteria	SP-37 6/14/2019	Q	SP-37 9/17/2021	Q	SP-37 9/30/2022	Q	SP-37 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		<		<		<	
cis-1,2-Dichloroethene	5	3.6		6.8		6.6		5.1	
Tetrachloroethene	5	10		15		7.3		7.1	
Trichloroethene	5	12		12		7.4		8.9	
trans-1,2-dichloroethene	5	<		<		<		<	

Sample Location Sample Date	Class GA Criteria	SP-38 6/14/2019	Q	SP-38 9/16/2021	Q	SP-38 9/30/2022	Q	SP-38 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		1.4		0.08	J	<	
cis-1,2-Dichloroethene	5	<		2.2	J	<		<	
Tetrachloroethene	5	<		0.4	J	0.81		0.42	J
Trichloroethene	5	<		4.6		6		3.2	
trans-1,2-dichloroethene	5	<		<		<		<	

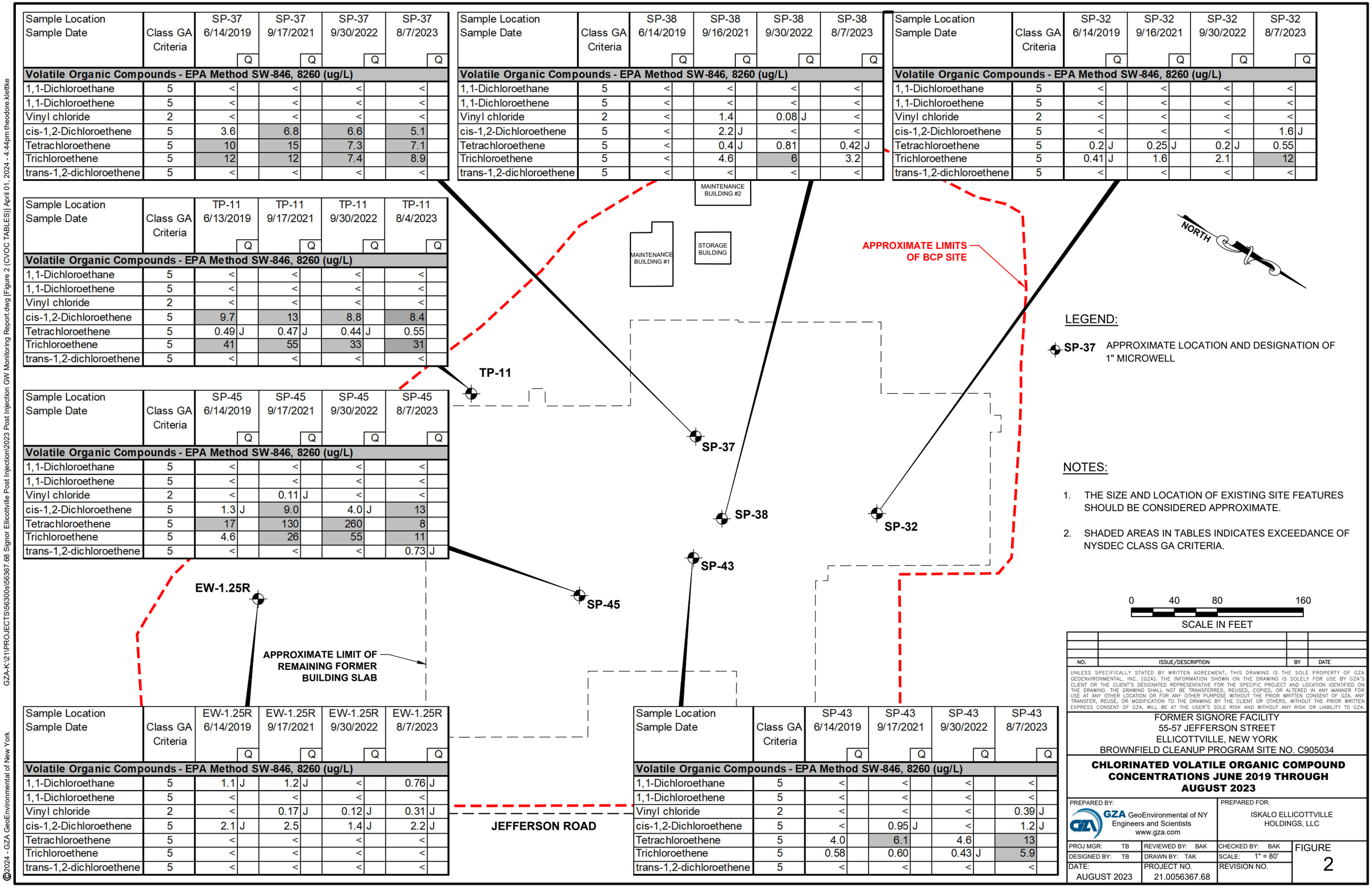
Sample Location Sample Date	Class GA Criteria	SP-32 6/14/2019	Q	SP-32 9/16/2021	Q	SP-32 9/30/2022	Q	SP-32 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		<		<		<	
cis-1,2-Dichloroethene	5	<		<		<		1.6	J
Tetrachloroethene	5	0.2	J	0.25	J	0.2	J	0.55	
Trichloroethene	5	0.41	J	1.6		2.1		12	
trans-1,2-dichloroethene	5	<		<		<		<	

Sample Location Sample Date	Class GA Criteria	TP-11 6/13/2019	Q	TP-11 9/17/2021	Q	TP-11 9/30/2022	Q	TP-11 8/4/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		<		<		<	
cis-1,2-Dichloroethene	5	9.7		13		8.8		8.4	
Tetrachloroethene	5	0.49	J	0.47	J	0.44	J	0.55	
Trichloroethene	5	41		55		33		31	
trans-1,2-dichloroethene	5	<		<		<		<	

Sample Location Sample Date	Class GA Criteria	SP-45 6/14/2019	Q	SP-45 9/17/2021	Q	SP-45 9/30/2022	Q	SP-45 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		0.11	J	<		<	
cis-1,2-Dichloroethene	5	1.3	J	9.0		4.0	J	13	
Tetrachloroethene	5	17		130		260		8	
Trichloroethene	5	4.6		26		55		11	
trans-1,2-dichloroethene	5	<		<		<		0.73	J

Sample Location Sample Date	Class GA Criteria	EW-1.25R 6/14/2019	Q	EW-1.25R 9/17/2021	Q	EW-1.25R 9/30/2022	Q	EW-1.25R 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	1.1	J	1.2	J	<		0.76	J
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		0.17	J	0.12	J	0.31	J
cis-1,2-Dichloroethene	5	2.1	J	2.5		1.4	J	2.2	J
Tetrachloroethene	5	<		<		<		<	
Trichloroethene	5	<		<		<		<	
trans-1,2-dichloroethene	5	<		<		<		<	

Sample Location Sample Date	Class GA Criteria	SP-43 6/14/2019	Q	SP-43 9/17/2021	Q	SP-43 9/30/2022	Q	SP-43 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260 (ug/L)									
1,1-Dichloroethane	5	<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<	
Vinyl chloride	2	<		<		<		0.39	J
cis-1,2-Dichloroethene	5	<		0.95	J	<		1.2	J
Tetrachloroethene	5	4.0		6.1		4.6		13	
Trichloroethene	5	0.58		0.60		0.43	J	5.9	
trans-1,2-dichloroethene	5	<		<		<		<	



LEGEND:

SP-37 APPROXIMATE LOCATION AND DESIGNATION OF 1" MICROWELL

NOTES:

1. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
2. SHADED AREAS IN TABLES INDICATES EXCEEDANCE OF NYSDEC CLASS GA CRITERIA.

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SCALE IN FEET

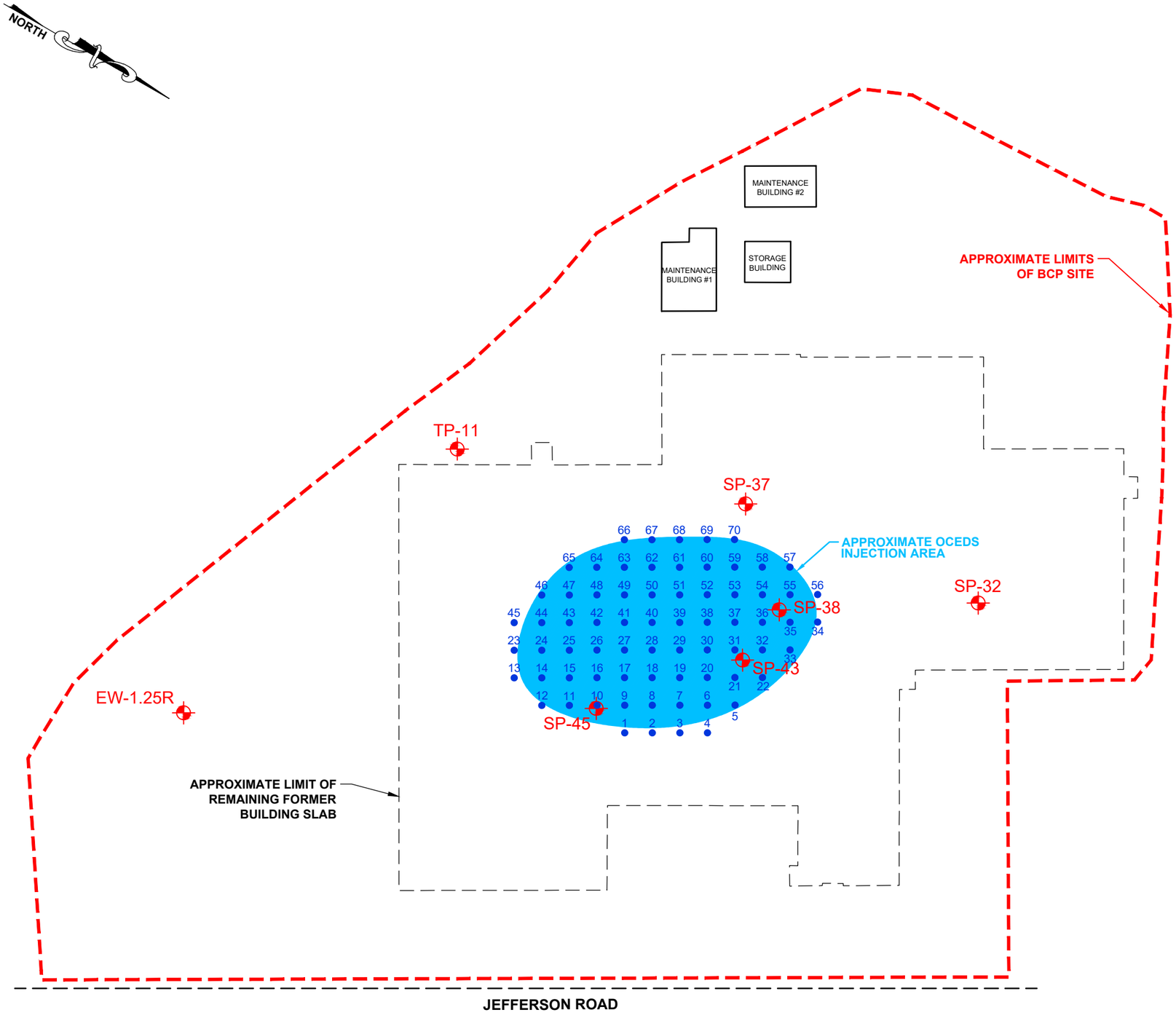
NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

CHLORINATED VOLATILE ORGANIC COMPOUND CONCENTRATIONS JUNE 2019 THROUGH AUGUST 2023

PREPARED BY:	PREPARED FOR:		
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	ISKALO ELLICOTTVILLE HOLDINGS, LLC		
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 2
DESIGNED BY: TB	DRAWN BY: TAK	SCALE: 1" = 80'	
DATE: AUGUST 2023	PROJECT NO. 21.0056367.68	REVISION NO.	

GZA-K:\21\PROJECTS\56300s\56367.68 Signor Ellicottville Post Injection\2023 Post Injection GW Monitoring Report.dwg [Figure 2 (CVOC TABLES)] April 01, 2024 - 4:44pm theodore.klettke



LEGEND:

- 1 ● ORGANIC CARBON ELECTRON DONOR SUBSTRATE (OCEDS) INJECTION POINT
- SP-37 ⊕ APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH OCEDS INJECTIONS

NOTES:

1. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
2. SHADED AREAS IN TABLES INDICATES EXCEEDANCE OF NYSDEC CLASS GA CRITERIA.

0 40 80 160
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

AUGUST 2023 POST-INJECTION GROUNDWATER MONITORING REPORT, LOCATION OF ORGANIC CARBON ELECTRON DONOR SUBSTRATE INJECTIONS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 3
DESIGNED BY: TB	DRAWN BY: TAK	SCALE: 1" = 60'	
DATE: AUGUST 2023	PROJECT NO. 21.0056367.68	REVISION NO.	

GZA-C:\Users\TTHEODO~1.KLE\AppData\Local\Temp\AcPublish_22368\2023 Post Injection GW Monitoring Report.dwg [Figure 3] February 22, 2024 - 11:33am theodore.klettke

ATTACHMENT A

LIMITATIONS

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

ATTACHMENT B

WELL DEVELOPMENT FORMS

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**EW-1.25R**	Ground Surface Elevation: 1532.29		Riser/Screen Material: Steel/Stainless Steel	
Installation Date:	7/90	Protective Casing Elevation: 1532.29 ft.		Top of Screen Depth: 15 ft.	
Installed By:	Empire Soils	Monitoring Point Elevation: 1531.96 ft.		Bottom of Screen Depth: 25 ft.	
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.51	6.77	0.65	14.7	13.19	Clear

Notes:

Field Observations

Exterior Observations: Good

Interior Observations: Good

Signs of Damage/Tampering: None

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: none

Parameters +/-	
pH	+/- 0.1
Conductivity	+/- 3%
Temperature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10mV
DO	+/- 10%

Sampling Information:
Sample ID: EW-1.25-080723
Sample Time: 1010
# of Sample Containers: 3
Duplicate Sample ID:
Sample Analysis: VOCs 8260
MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
08/~~11~~/23	0920	~~11~~.76	0	6.44	0.613	14.5	-3.67	none	1.26	-73.5	Depth of Water: 11.74
	0925	11.77	0.1	6.37	0.610	14.2	-2.73		0.97	-76.1	Length of Water Column: 11.90
	0930	11.77	0.2	6.34	0.609	15.9	0.98		0.54	-79.0	Depth of Well: 23.64
	0935	11.77	0.3	6.33	0.605	14.8	5.76		0.76	-81.8	Sheen Observed: Y (N)
	0940	11.77	0.4	6.34	0.607	15.0	10.62		0.74	-84.4	DNAPL Observed: Y (N)
	0945	11.77	0.5	6.35	0.601	14.6	19.68		0.70	-87.3	Did Well Go Dry: Y (N)
	0955	11.77	0.6	6.37	0.598	15.0	19.15		0.68	-89.9	Other:
	1000	11.77	0.7	6.37	0.595	15.0	20.06		0.68	-90.3	

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well : **SP-32**
Installation Date: 9/27/2012
Installed By: TREC

Ground Surface Elevation:
Protective Casing Elevation:
Monitoring Point Elevatior 1533.52
Elevation Datum:

Riser/Screen Material: PVC
Top of Screen Depth: 9 ft.
Bottom of Screen Depth: 19 ft.

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
7.14	5.93	0.133	18.6	5.02	Clear

Notes:

Field Observations

Exterior Observations: Good

Interior Observations Good

Signs of Damage/Tampering: None

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: None

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-32-080723
Conductivity	+/- 3%	Sample Time: 1055
Temperature	+/- 10%	# of Sample Containers: 3
Turbidity	+/- 10%	Duplicate Sample ID:
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
8-7-23	1030	10.40	0	6.20	0.158	18.7	-5.77	none	1.80	64.6	Depth of Water: 10.39
	1040	10.40	0.2	6.66	0.256	17.6	-6.95		1.06	52.8	Length of Water Column: 8.25
	1045	10.48	0.3	6.67	0.265	17.2	-6.62		0.97	57.1	Depth of Well: 18.64
	1050	10.40	0.6	6.68	0.265	17.2	-6.52		0.96	57.1	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

GZA GeoEnvironmental of New York

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	SP-37	Ground Surface Elevation:		Riser/Screen Material: PVC	
Installation Date:	9/27/2012	Protective Casing Elevation:		Top of Screen Depth: 9 ft.	
Installed By:	TREC	Monitoring Point Elevation	1533.36	Bottom of Screen Depth: 19 ft.	
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
6.49	6.08	0.19	18.4	10.32	Clear

Notes:

Field Observations

Exterior Observations: Good

Interior Observations: Good

Signs of Damage/Tampering: none

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: none

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-37-080723
Conductivity	+/- 3%	Sample Time: 1150
Temperature	+/- 10%	# of Sample Containers: 3
Turbidity	+/- 10%	Duplicate Sample ID: —
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
8-7-23	1125	10.62	0	6.15	0.188	18.7	-6.20	none	2.35	119.0	Depth of Water: 10.60
	1130	10.63	0.1	6.12	0.187	17.6	-6.75		2.21	123.2	Length of Water Column: 9.56
	1135	10.63	0.3	6.12	0.187	16.9	-7.18		2.03	126.7	Depth of Well: 20.16
	1140	10.63	0.4	6.11	0.188	16.9	-7.25		2.00	127.8	Sheen Observed: Y (N)
	1145	10.63	0.5	6.12	0.191	16.9	-7.30		1.98	128.6	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-38**	Ground Surface Elevation:		Riser/Screen Material: PVC	
Installation Date:	9/27/2012	Protective Casing Elevation:		Top of Screen Depth: 9 ft.	
Installed By:	TREC	Monitoring Point Elevatior	1533.52	Bottom of Screen Depth: 19 ft.	
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
7.2	6.85	0.416	16.7	5.88	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: Good	pH +/- 0.1	Sample ID: SP-38-080723
	Conductivity +/- 3%	Sample Time: 1320
Interior Observations Good	Temperature +/- 10%	# of Sample Containers: 3
	Turbidity +/- 10%	Duplicate Sample ID: —
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering: none	DO +/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: none

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
8-7-23	1255	10.81	0	6.63	0.433	16.5	41.43	none	4.07	105.6	Depth of Water: 10.74
	1300	10.80	0.1	6.61	0.430	15.5	52.43		3.76	111.9	Length of Water Column: 8.28
	1305	10.80	0.2	6.61	0.429	16.3	34.51		3.64	115.0	Depth of Well: 19.02
	1310	10.80	0.3	6.60	0.432	16.2	20.85		3.60	118.1	Sheen Observed: Y (N)
	1315	10.80	0.4	6.60	0.432	16.3	18.12	↓	3.58	122.2	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-45**	Ground Surface Elevation:		Riser/Screen Material: PVC	
Installation Date:	10/1/2012	Protective Casing Elevation:		Top of Screen Depth: 9.2 ft.	
Installed By:	TREC	Monitoring Point Elevation	1533.43	Bottom of Screen Depth: 19.2 ft.	
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.05	6.84	0.37	17.5	6.27	Clear

Notes:

Field Observations

Exterior Observations: Good

Interior Observations: Good

Signs of Damage/Tampering: none

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-45-080723
Conductivity	+/- 3%	Sample Time: 1510
Temperature	+/- 10%	# of Sample Containers: 3
Turbidity	+/- 10%	Duplicate Sample ID: —
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: none

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
8-7-23	1445	10.34	0.0	6.67	0.390	19.9	5.11	none	1.84	144.7	Depth of Water: 10.33
	1450	10.34	0.1	6.64	0.373	20.2	2.25	"	1.34	136.0	Length of Water Column: 7.09
	1455	10.34	0.2	6.64	0.369	20.1	-3.41	"	1.15	130.9	Depth of Well: 17.42
	1500	10.34	0.3	6.64	0.366	20.0	-5.39	"	1.09	126.9	Sheen Observed: Y (N)
	1505	10.35	0.4	6.64	0.364	20.0	-5.41	"	1.07	125.3	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**SP-43**	Ground Surface Elevation:		Riser/Screen Material: PVC
Installation Date:	10/1/2012	Protective Casing Elevation:		Top of Screen Depth: 10 ft.
Installed By:	TREC	Monitoring Point Elevatior	1533.42	Bottom of Screen Depth: 20 ft.
		Elevation Datum:		

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
7.89	6.12	0.183	20.5	4.72	Clear

Notes:

Field Observations

Exterior Observations: Good

Interior Observations: Good

Signs of Damage/Tampering: none

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: none

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-43-080723
Conductivity	+/- 3%	Sample Time: 1425
Temperature	+/- 10%	# of Sample Containers: 3
Turbidity	+/- 10%	Duplicate Sample ID: ———
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	MNA PARAMETERS

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
8-7-23	1400	11.55	0	5.99	0.226	16.1	-1.31	none	1.55	152.8	Depth of Water: 11.48
	1405	11.55	0.1	6.20	0.262	15.8	-1.23	1	1.15	149.6	Length of Water Column: 8.55
	1410	11.55	0.2	6.36	0.302	15.6	-5.00	1	0.84	143.3	Depth of Well: 20.03
	1415	11.54	0.3	6.39	0.309	15.6	-6.07	1	0.81	141.4	Sheen Observed: Y (N)
	1420	11.55	0.5	6.38	0.311	15.5	-5.89	1	0.79	140.4	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.66

FORMER SIGNORE, INC. FACILITY
WELL DEVELOPMENT FORM
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well : **TP-11**
Installation Date:
Installed By: Trec Environmental
Ground Surface Elevation:
Protective Casing Elevation:
Monitoring Point Elevation: 1532.98 ft.
Elevation Datum:
Riser/Screen Material: PVC
Top of Screen Depth:
Bottom of Screen Depth:

Previous Field measurement Information Available (**yes**/no/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color
9.42	6.69	0.393	16.7	4.97	Clear

Notes:

Field Observations

Exterior Observations: Good
Interior Observations: Good
Signs of Damage/Tampering: none

Locked (yes/no) | Well Cap (yes/no) | Surface Seal Intact (yes/no) | PID Measurement: 0.0 | Odors: none

Parameters +/-	
pH	+/- 0.1
Conductivity	+/- 3%
Temperature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10mV
DO	+/- 10%

Sampling Information:
Sample ID: TP-11 – 080423
Sample Time: 1530
# of Sample Containers: 3
Duplicate Sample ID: —
Sample Analysis: VOCs 8260

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
8-4-23	1505	11.88	0	6.88	0.513	13.9	25.25	none	3.57	103.7	Depth of Water: 11.88
"	1510	11.88	0.1	6.86	0.514	14.3	-2.70	"	3.36	104.5	Length of Water Column: 8.94
"	1515	11.88	0.2	6.85	0.517	14.2	-6.27	"	3.35	104.6	Depth of Well: 19.59
"	1520	11.88	0.4	6.85	0.518	14.3	-6.36	"	3.34	103.9	Sheen Observed: Y (N)
"	1525	11.88	0.5	6.85	0.519	14.4	-6.72	—	3.35	103.9	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

ATTACHMENT C

GROUNDWATER ANALYTICAL RESULTS SUMMARY

Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	EW-1.25 6/25/2013	Q	EW-1.25 10/16/2013	Q	EW-1.25 6/10/2014	Q	EW-1.25 6/4/2015	Q	EW-1.25 8/21/2015	Q	EW-1.25 10/21/2015	Q	EW-1.25 6/15/2016	Q	EW-1.25 10/25/2016	Q	EW-1.25 7/13/2017	Q	EW-1.25 6/21/2018	Q	EW-1.25R 6/14/2019	Q	EW-1.25R 9/17/2021	Q	EW-1.25R 9/30/2022	Q	EW-1.25R 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-846, 8260C (ug/L)																													
Acetone	50	<		<		<		<		<		3.8	J	2.3	J	<		<		<		6.8		<		1.5	J	<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		0.18	J	<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		1.8		<		<		<		<		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<		0.88	J	<		<		<	
1,1-Dichloroethane	5	4.1		4.1		2.9		3		2.6		4.2		2.9		3.9		3.0		<		1.1	J	1.2	J	<		0.76	J
1,1-Dichloroethene	5	<		<		<		0.25	J	0.19	J	0.36	J	0.24	J	0.48	J	0.39	J	<		<		<		<		<	
Vinyl chloride	2	4.6		5		2.4		2.6		<		3.3		3.2		6.6		<		<		<		0.17	J	0.12	J	0.31	J
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	31		32		23		29		28		44		28		98		57		<		2.1	J	2.5		1.4	J	2.2	J
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		0.7	J	<		<		<		<		<		<	
Tetrachloroethene	5	3.3		3.8		3.6		<		1.4		1.8		3.1		<		<		<		<		<		<		<	
Trichloroethene	5	51		59		41		47		42		58		47		0.27	J	35		<		<		<		<		<	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		0.79	J	<		<		<		<		<		<	
Total VOCs		94.77		103.9		72.9		81.85		75.01		115.46		86.74		110.74		97.19				11.06		3.87		3.02		3.27	
Field Parameters																													
Temperature (Deg. C)	NV	13		13.5		10.4		9.1		13.1		13.4		12.4		13		14.9		12.1		9.8		14.1		13.4		15	
Specific Conductance (mS/cm)	NV	0.7		0.68		0.7		0.757		0.67		0.68		0.653		0.612		0.65		0.629		0.633		0.641		0.564		0.595	
Dissolved Oxygen (mg/L)	NV	0.05		0.18		0.06		0.17		0.12		0.22		0.29		0.23		0.13		0.65		0.18		17.1		3.1		0.68	
Oxygen Reduction Potential (mv)	NV	-88.5		-99.3		-91.2		-130.5		-86.2		-91.6		161.4		-125.1		-169.9		-54.1		-140.1		-98.9		-96		-90.3	
pH (std. units)	NV	7.35		6.85		6.78		6.73		6.77		6.89		6.79		6.87		6.77		6.12		6.91		6.28		6.78		6.37	
Turbidity (NTUs)	NV	9.12		3.31		11.71		7.7		14.2		10.7		20.1		11.87		13.13		21.5		69.11		9.82		8.14		20.06	
Inorganics (ug/L)																													
Iron	300	NS		1,000		14,000		14,000		11,500		11,900		27,300		10,500		<		27,000	M1	6,600	M1	28,400		NS		NS	
Manganese	300	NS		1,300		1,600		1,482		1,265		1,465		1,453		1,354		1,256		3,060		1,392		2,460		NS		NS	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	NS		1,000		170		237		218		190		244		130		130		NT		1,110		1,620		NS		NS	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		<		NT		6.85		<		NS		NS	
Ethene (ug/L)	NV	NS		1.7		<		<		0.535		<		0.558		0.55		0.55		NT		2.82		<		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		<		<		2.07		2.47		1.92		2.26		1.56		1.84		21.0		7.97		11.60		NS		NS	
Chloride (mg/L)	250	NS		66	B	69		62		57		56		49		45		47		48.2	M1	14.1		16.0		NS		NS	
Nitrate (mg/L)	10	NS		<		<		0.015	J	0.020	J	<		<		0.029	J	<		<		<		0.12		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		7.6		7.4	B	12.8		10.3		10.5		10.2		11.7		8.86		<		10.3		4		NS		NS	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
   M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled; NT = Not tested.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-32 10/3/2012	Q	SP-32 10/17/2013	Q	SP-32 6/10/2014	Q	SP-32 6/4/2015	Q	SP-32 8/21/2015	Q	SP-32 10/22/2015	Q	SP-32 6/15/2016	Q	SP-32 10/25/2016	Q	SP-32 7/12/2017	Q	SP-32 6/21/2018	Q	SP-32 6/14/2019	Q	SP-32 9/16/2021	Q	SP-32 9/30/2022	Q	SP-32 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-8																													
Acetone	50	<		240	D	<		<		<		<		2.8	J	<		<		<		4.8	J	<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		0.18	J	0.23	J	<		<		<		<		<		<		<		<		<	
2-Butanone	50	<		45		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		26		11		4.5		4.7		2.7		3.3		<		<		<		<		<		<		1.6	J
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	2.1		<		<		0.25	J	0.46	J	0.62		0.44	J	0.42	J	0.32	J	<		0.2	J	0.25	J	0.2	J	0.55	
Trichloroethene	5	120		3.4		6.4		5.8		6.5		6.7		14		1.2		0.85		4.4		0.41	J	1.6		2.1		12	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		122.1		314.4		17.4		10.73		11.89		10.02		20.54		1.62		1.17		4.4		0.43		1.85		2.3		14.15	
Field Parameters																													
Temperature (Deg. C)	NV	13.2		16.5		13.1		11.0		17.7		16.6		15.8		15.1		18.6		13.2		12.2		19.9		18.3		17.2	
Specific Conductance (mS/cm)	NV	0.418		0.65		0.392		0.326		0.272		0.223		0.232		0.181		0.133		0.144		0.122		0.167		0.167		0.265	
Dissolved Oxygen (mg/L)	NV	4.92		0.18		0.12		0.15		0.16		0.48		0.53		1.67		2.29		0.76		5.59		42.8		48.4		0.96	
Oxygen Reduction Potential (mv)	NV	50.3		-95.3		-21.9		104.4		57.7		169.9		236.7		153		41.9		181.2		150.8		215.3		93.1		57.7	
pH (std. units)	NV	7.23		6.45		6.48		6.28		6.34		6.25		6.22		6.0		5.9		5.96		6.30		6.05		6.40		6.68	
Turbidity (NTUs)	NV	35		6.76		4.95		0.6		7.15		4.42		7.6		4.96		5.02		2.8		17.51		5.36		7.52		-6.52	
Inorganics (ug/L)																													
Iron	300	NS		3,480		16,000		339		246		206		541		66		<		<		NS		NS		NS		NS	
Manganese	300	NS		24,600		19,000		6,468		8,331		2,897		2,668		1,144		12		<		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	NS		120		660		725		932		208		205		3.31		0.55	J	<		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		<		<		0.659		0.841		<		<		<		<		<		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		1.7		<		<		<		<		<		<		<		<		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		51		<		1.35		1.7		1.02		1.45		0.87		1.08		<		NS		NS		NS		NS	
Chloride (mg/L)	250	NS		5	B	3.1		3.46		3.12		2.83		2.72		1.59		0.861		<		NS		NS		NS		NS	
Nitrate (mg/L)	10	NS		<		<		1.92		0.93		4.2		3.9		4.8		1.4		1		NS		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		4.9	J	14	B	14.6		16.8		16.1		16.3		14.4		13.8		15.9		NS		NS		NS		NS	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
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3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-37 10/5/2012	Q	SP-37 10/17/2013	Q	SP-37 6/10/2014	Q	SP-37 6/4/2015	Q	SP-37 8/21/2015	Q	SP-37 10/23/2015	Q	SP-37 6/16/2016	Q	SP-37 10/26/2016	Q	SP-37 7/12/2017	Q	SP-37 6/21/2018	Q	SP-37 6/14/2019	Q	SP-37 9/17/2021	Q	SP-37 9/30/2022	Q	SP-37 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-8																													
Acetone	50	<		<		<		<		<		<		2.6	J	<		<		<		5.5		<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		0.21	J	0.42	J	<		<		<		<		<		<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	1.8		7.3		0.99	J	3.4		9.9		9.4		6.7		12		2.7		1.9		3.6		6.8		6.6		5.1	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	9.6		24		13		18		15		26		14		17		12		13.2		10		15		7.3		7.1	
Trichloroethene	5	13		20		7.2		10		11		19		13		14		7.8		10.9		12		12		7.4		8.9	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		24.4		51.3		27.2		31.4		36.72		54.61		36.72		43		22.5		26		31.1		33.8		21.3		21.1	
Field Parameters																													
Temperature (Deg. C)	NV	13.5		17		11.9		10		17		15.3		13.3		14.2		18.4		12.1		11.9		18.8		18.9		16.9	
Specific Conductance (mS/cm)	NV	0.452		0.535		0.305		0.449		0.432		0.396		0.291		0.246		0.19		0.184		0.166		0.210		0.195		0.191	
Dissolved Oxygen (mg/L)	NV	0.28		0.2		0.58		0.68		0.07		0.13		0.29		0.55		0.86		2.53		3.05		44.2		26		1.98	
Oxygen Reduction Potential (mv)	NV	-122.4		74.8		107.7		117.6		16.1		82.8		306.5		130.2		6.7		180.1		151.5		213.1		143.7		128.6	
pH (std. units)	NV	6.6		6.39		6.28		6.12		6.28		6.3		6.03		5.99		6.08		5.94		6.25		5.86		6.21		6.12	
Turbidity (NTUs)	NV	2.5		9.35		12.5		1.4		5.27		2.3		5.93		5.02		10.37		0.9		6.12		9.26		6.82		-7.3	
Inorganics (ug/L)																													
Iron	300	NS		61.7	B	900		81.4		409		66		85		56		<		<		NS		NS		NS		NS	
Manganese	300	NS		336		150		1,021		6,015		2,035		1,137		1,445		73		<		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	NS		26		2.5		28		108		67.4		47.2		<		<		<		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		<		<		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		<		<		<		<		<		<		<		<		<		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		4	J	2.8	J	2.51		4.75		2.62		2.47		2.21		1.93		1.5	M1	NT		1.14		NS		NS	
Chloride (mg/L)	250	NS		12	B	3.8		28.8		16.4		14.7		7.11		5.79		2.64		2.4		NS		NS		NS		NS	
Nitrate (mg/L)	10	NS		4.8		5.2		2.98		0.04		0.27		1.40		3.20		1.30		0.79		NS		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		36		24	B	23.3		18		21.1		18.3		21		14.3		13.9		9.78		10.6		NS		NS	

Notes:
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3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-38 10/4/2012	Q	SP-38 10/17/2013	Q	SP-38 6/10/2014	Q	SP-38 8/21/2015	Q	SP-38 10/23/2015	Q	SP-38 6/15/2016	Q	SP-38 10/26/2016	Q	SP-38 7/12/2017	Q	SP-38 6/21/2018	Q	SP-38 6/14/2019	Q	SP-38 9/16/2021	Q	SP-38 9/30/2022	Q	SP-38 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-8																											
Acetone	50	<		<		<		<		<		1.6	J	<		<		<		<		<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		1.8	J	1.9		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		2	J	1.9	J	<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		22		0.39	J	4.0		4.2		<		<		1.4		0.08	J	<	
2-Butanone	50	<		<		<		26		2.1	J	<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		1.5		1.2		46		0.82	J	<		<		<		<		<		2.2	J	<		<	
Toluene	5	<		<		<		<		1	J	<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	2.4		<		<		0.86	J	<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	5		<		5.2		0.22	J	0.37	J	0.28	J	0.48	J	0.2	J	<		<		0.4	J	0.81		0.42	J
Trichloroethene	5	17		7.8		19		0.45	J	0.29	J	5.5	J	8.2		6.5		5.8		<		4.6		6		3.2	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		24.4		9.3		25.4		77.33		30.38		7.77		12.68		10.9		5.8				8.6		6.89		3.62	
Field Parameters																											
Temperature (Deg. C)	NV	13.1		15.2		11.6		15.2		15.1		16.1		14.8		16.7		11.7		11.3		17.9		16.1		16.3	
Specific Conductance (mS/cm)	NV	0.437		0.412		0.437		1.03		0.69		0.419		0.443		0.416		0.404		0.398		0.446		0.397		0.432	
Dissolved Oxygen (mg/L)	NV	3.25		2.88		4.65		0.07		0.11		1.32		0.23		0.72		2.11		2.32		19.4		27.4		3.58	
Oxygen Reduction Potential (mv)	NV	31.7		103.5		136		-124.2		-172.7		241.8		-22.5		-79.6		150.8		125.2		156.6		106.7		120.2	
pH (std. units)	NV	6.81		6.72		6.72		7.1		7.39		6.59		6.75		6.85		6.56		6.89		6.7		6.79		6.6	
Turbidity (NTUs)	NV	27.4		2.12		19.2		12.3		2.12		6.39		7.69		5.88		21.5		180.22		42.28		7.35		20.12	
Inorganics (ug/L)																											
Iron	300	<		<		1,500		5,660		3,040		352		811		<		<		NS		NS		NS		NS	
Manganese	300	5,100		41.1	B	180		24,820		12,680		2762		9031		1,827		23		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	<		20		1.1		807.0		636.0		3.9		13.7		10.1		4.4		NS		NS		NS		NS	
Ethane (ug/L)	NV	NM		<		<		<		2.57		<		0.633		<		<		NS		NS		NS		NS	
Ethene (ug/L)	NV	NM		<		<		3.45		4.56		<		2.04		0.652		<		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	<		<		<		86.9		2.22		1.21		1.32		1.05		<		NS		NS		NS		NS	
Chloride (mg/L)	250	31		40	B	34		29		27.1		36.1		27.7		22.6		32		NS		NS		NS		NS	
Nitrate (mg/L)	10	4.7		1.4		3.3		0.0	J	<		0.6		0.24		0.24		0.37		NS		NS		NS		NS	
Nitrite (mg/L)	1					<		<		NS		NS		NS		NS		<		NS		NS		NS		NS	
Sulfate (mg/L)	250	23		11		13	B	0.063	J	5.99		11.5		16.1		13.8		11.7		NS		NS		NS		NS	

Notes:
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4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-43 10/4/2012	Q	SP-43 10/17/2013	Q	SP-43 6/10/2014	Q	SP-43 6/4/2015	Q	SP-43 8/21/2015	Q	SP-43 10/23/2015	Q	SP-43 6/16/2016	Q	SP-43 10/26/2016	Q	SP-43 7/12/2017	Q	SP-43 6/21/2018	Q	SP-43 6/14/2019	Q	SP-43 9/17/2021	Q	SP-43 9/30/2022	Q	SP-43 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-8																													
Acetone	50	<		53		<		<		<		<		1.9	J	<		<		<		5.4		<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<				<		<		<		<	
Carbon disulfide	NV	<		1.3		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		0.92	J	<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		0.48	J	6.6		<		<		<		<		<		<		<		0.39	J
2-Butanone	50	<		84		<		<		21		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		5.4		3.9		1.1	J	9.4		9.2		4.6		2.1	J	<		<		<		0.95	J	<		1.2	J
Toluene	5	<		<		<		<		<		84.0		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	93		24		14		14		10		17		7.7		11.0		6.9		7.4	CH	4.0		6.1		4.6		13	
Trichloroethene	5	5.2		2.6		<		0.72		2.20		8.30		0.71		0.70		0.24	J	<		0.58		0.60		0.43	J	5.9	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		98.2		170.3		17.9		15.82		43.08		125.10		14.91		13.80		7.14		7.40		9.40		7.65		5.03		20.49	
Field Parameters																													
Temperature (Deg. C)	NV	14.1		18.4		13		12.2		16.6		15.9		14.6		14.2		20.5		15.6		13.8		20.9		19.5		15.5	
Specific Conductance (mS/cm)	NV	0.445		0.513		0.304		0.773		0.66		0.68		0.237		0.224		0.183		0.151		0.127		0.149		0.146		0.311	
Dissolved Oxygen (mg/L)	NV	1.48		0.22		0.23		1.1		0.12		0.12		1.23		1.96		1.96		1.73		3.52		28.1		31.5		0.79	
Oxygen Reduction Potential (mv)	NV	44.2		-39.3		149		175.8		-15.1		-88.2		310.9		184.3		12.4		156.6		153.9		196.3		132.5		140.4	
pH (std. units)	NV	6.55		5.88		6.13		5.82		6.31		6.83		5.87		6.02		6.12		6.11		6.32		5.9		6.29		6.38	
Turbidity (NTUs)	NV	39.8		4.04		18		0.2		31.7		4.26		6.7		3.12		4.72		1.8		16.25		16.07		7.45		-5.89	
Inorganics (ug/L)																													
Iron	300	NS		6,150		7,100		54		5,780		6,220		127		114		<		<		NS		NS		NS		NS	
Manganese	300	NS		5,510		1,600		1,254		8,919		10,240		171.8		190.4		5.4		10.4		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	NS		16		12		0.756	J	2,490.000		6,520.000		0.612		<		0.619	J	<		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		2.4		<		<		<		<		<		<		<		<		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		3.7		<		<		<		2.13		<		<		<		<		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		80		<		1.84		28.8		3.62		2.09		1.91		1.58		1.1		NS		NS		NS		NS	
Chloride (mg/L)	250	NS		6.3	B	2.2		136.0		62.2		40.0		12.2		9.6		4.1		2.6		NS		NS		NS		NS	
Nitrate (mg/L)	10	NS		0.36		8.30		8.65		0.59		0.21		2.10		4.10		3.70		1.60		NS		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		0.042	J	NS		NS		NS		NS		NS		NS		<		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		12		25	B	19.8		18.3		13.3		22		21.4		14.7		14.1		NS		NS		NS		NS	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.

9. Shaded concentrations exceed Class GA criteria.

Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-45 10/4/2012	Q	SP-45 10/17/2013	Q	SP-45 6/10/2014	Q	SP-45 6/4/2015	Q	SP-45 8/21/2015	Q	SP-45 10/23/2015	Q	SP-45 6/16/2016	Q	SP-45 10/26/2016	Q	SP-45 7/13/2017	Q	SP-45 6/21/2018	Q	SP-45 6/14/2019	Q	SP-45 9/17/2021	Q	SP-45 9/30/2022	Q	SP-45 8/7/2023	Q
Volatile Organic Compounds - EPA Method SW-8																													
Acetone	50	<		<		<		<		<		<		1.5	J	<		<		<		4.1		<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		6.3		5.5		7.5		1.7		<		<		0.11	J	<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	6.8		1.1		1.9		2.9		1.4	J	5.7		3.7		13		2.0	J	1.4		1.3	J	9.0		4.0	J	13	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	260	D	69		130		160		16		45		16		170		45		18.7		17		130		260		8	
Trichloroethene	5	13		3.6		6.4		8.5		1.5		7.5		7.2		53		10		5.4		4.6		26		55		11	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<		0.73	J
Total VOCs		283.0		73.7		138.3		171.4		18.9		171.4		33.9		243.5		58.7		25.5		27.0		165.1		319.0		32.7	
Field Parameters																													
Temperature (Deg. C)	NV	14.6		17.8		16.5		14		19.1		15.8		15.2		15.8		15.8		13.3		14		20.7		19.6		20	
Specific Conductance (mS/cm)	NV	0.543		0.363		0.391		0.584		0.6		0.62		0.503		0.442		0.442		0.391		0.336		0.410		0.341		0.364	
Dissolved Oxygen (mg/L)	NV	1.07		5.21		3.02		3.58		0.09		0.07		0.5		0.06		0.06		2.72		3.85		18.4		6.1		1.07	
Oxygen Reduction Potential (mv)	NV	-29.5		88.3		143.1		73.3		-62.7		-61.7		250.7		-8.7		-8.7		88.2		128.4		162.6		129.9		125.3	
pH (std. units)	NV	6.48		6.83		6.71		6.71		7.05		7.05		6.91		6.66		6.66		6.89		7.23		6.59		6.7		6.64	
Turbidity (NTUs)	NV	3.95		2.3		3.17		0.5		14.91		5.06		11.25		17.2		17.2		5.5		12.48		7.25		7.25		-5.41	
Inorganics (ug/L)																													
Iron	300	NS		32.1	B	170	J	27.2	J	45	J	1,260		197		386		<		<		NS		NS		NS		NS	
Manganese	300	NS		<		<		1.93		296.4		3,510		1447		1,340		240		332		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	NS		14		1.1		0.762	J	96.9		958		1500		3610		1760		8.1		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		<		<		<		<		<		1.18		2.47		1.0		<		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		<		<		<		<		1.08		2.59		3.36		0.77		<		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		<		<		1.64		3.93		1.86		1.69		1.49		1.23		<		1.06		0.945		NS		NS	
Chloride (mg/L)	250	NS		5.1	B	4.2		35.0		9.4		17.3		15.4		12.6		3.2		6.8		NS		NS		NS		NS	
Nitrate (mg/L)	10	NS		6		5.2		2.68		1.2		1.9		0.39		0.72		0.79		0.35		NS		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		39		33	B	32.7		43.4		22.4		24		23.8		19.1		16.8		12.1		9.82		NS		NS	

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

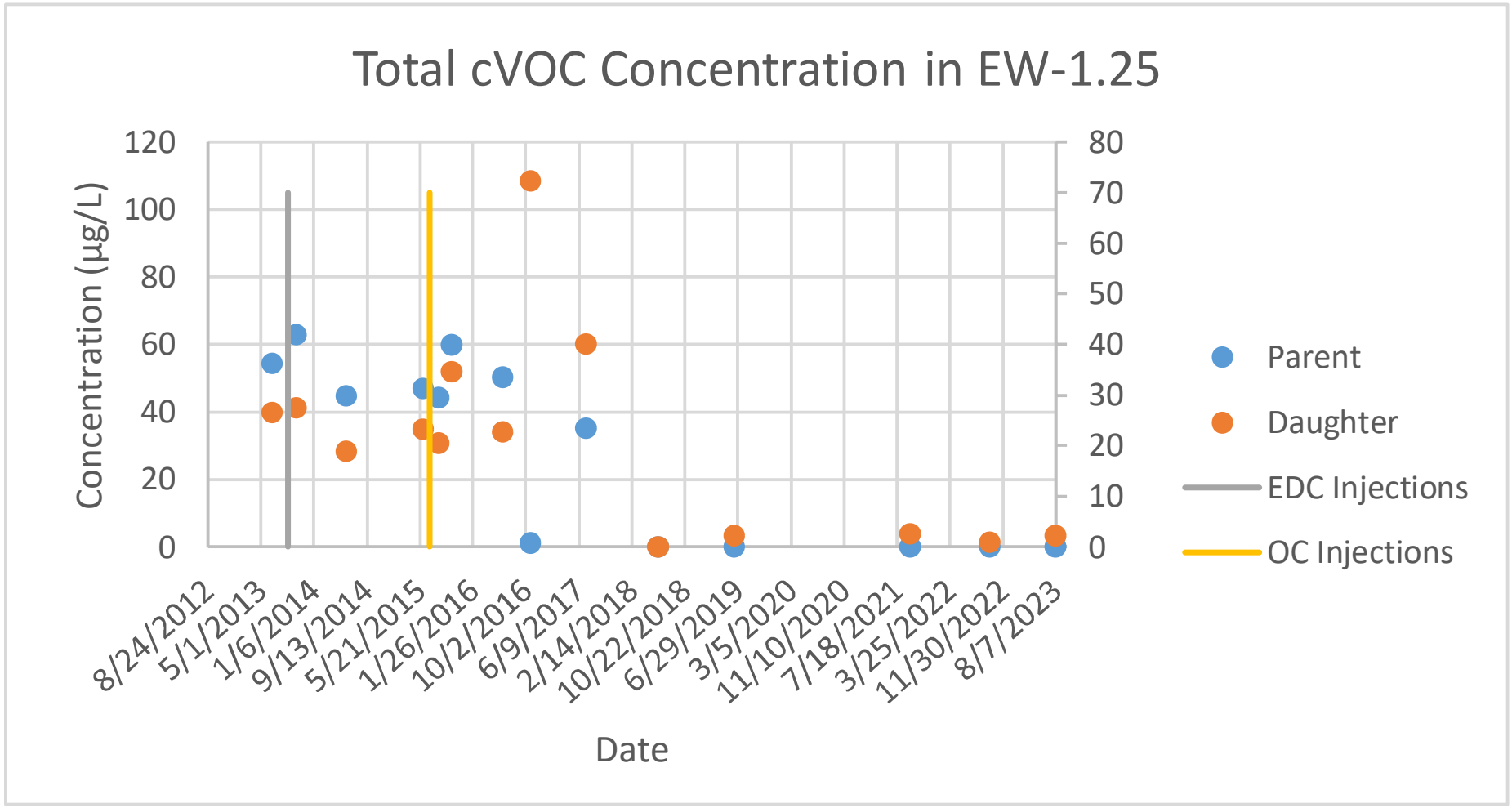
Attachment C
August 2023 Post-Injection Groundwater Analytical Results Summary
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

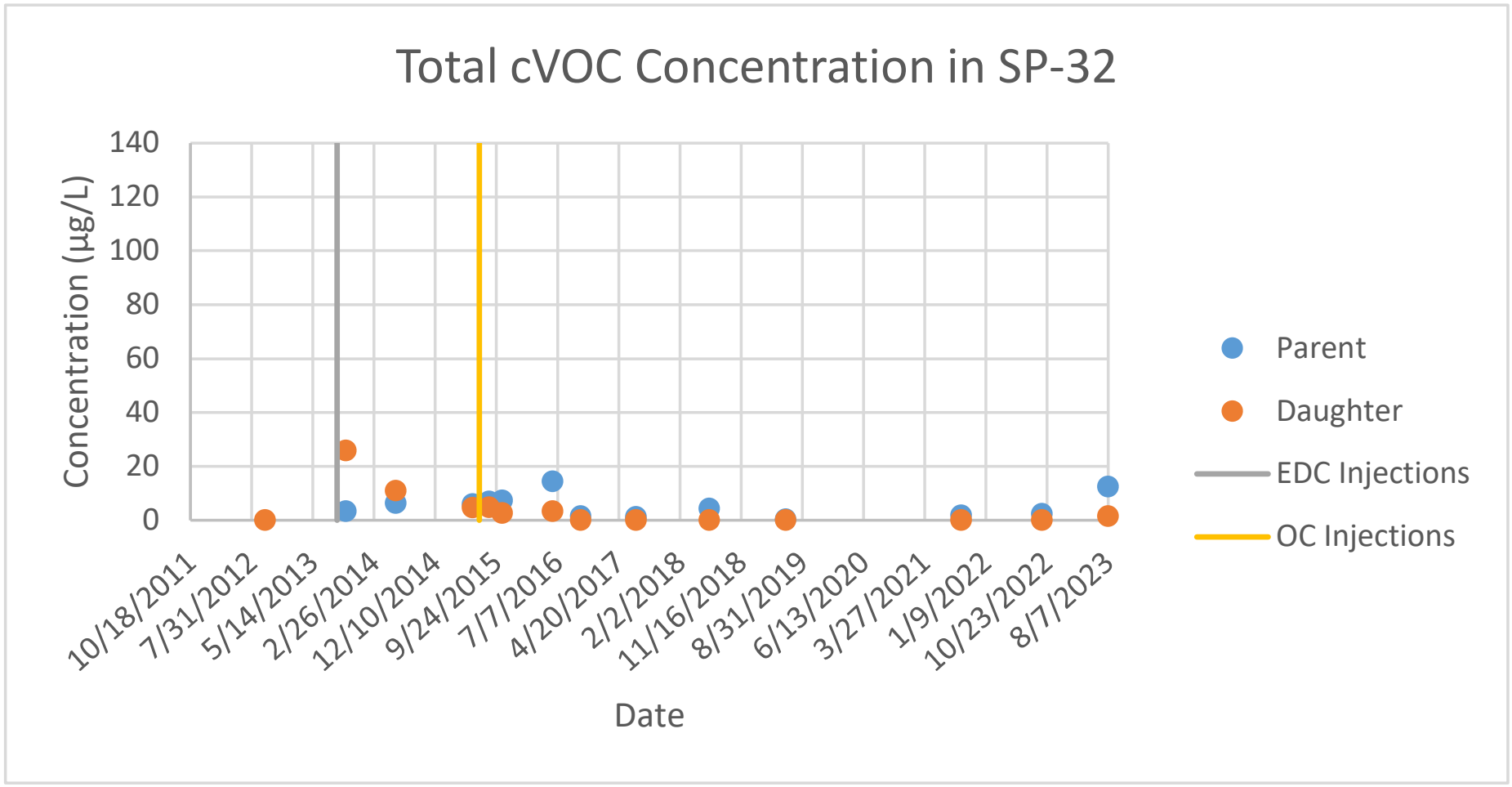
Sample Location Sample Date	Class GA Criteria	TP-11 6/3/2015	Q	TP-11 10/22/2015	Q	TP-11 6/16/2016	Q	TP-11 10/25/2016	Q	TP-11 7/12/2017	Q	TP-11 6/20/2018	Q	TP-11 6/13/2019	Q	TP-11 9/17/2021	Q	TP-11 9/30/2022	Q	TP-11 8/4/2023	Q
Volatile Organic Compounds - EPA Method SW-8																					
Acetone	50	<		<		2	J	<		<		<		2.5	J	<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		<		<		<		<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	19		12		18		13		8.1		12.4		9.7		13		8.8		8.4	
Toluene	5	<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	0.58		1.5		0.53		1.2		0.25	J	<		0.49	J	0.47	J	0.44	J	0.55	
Trichloroethene	5	88		74		77		58		40		66.7		41		55		33		31	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Total VOCs		107.58		87.50		97.53		72.20		48.35		79.10		53.69		68.47		42.24		39.95	
Field Parameters																					
Temperature (Deg. C)	NV	17.5		14.4		12.4		13.4		16.9		9.5		8.8		16.2		14.8		14.4	
Specific Conductance (mS/cm)	NV	0.37		0.535		0.493		0.504		0.393		0.464		0.447		0.558		0.518		0.519	
Dissolved Oxygen (mg/L)	NV	0.11		1.57		2.84		2.24		2.06		4.83		4.12		33.2		25.6		3.35	
Oxygen Reduction Potential (mv)	NV	-23.6		90.7		267.4		77.7		6.6		101.7		122		200.2		86.1		103.9	
pH (std. units)	NV	6.84		7.04		6.9		6.8		6.69		6.81		7.06		6.45		5.18		6.85	
Turbidity (NTUs)	NV	6.27		1.87		7.69		9.67		4.97		0.3		1.84		4.91		13.93		-6.72	
Inorganics (ug/L)																					
Iron	300	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Manganese	300	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																					
Methane (ug/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Chloride (mg/L)	250	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Nitrate (mg/L)	10	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Nitrite (mg/L)	1	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	

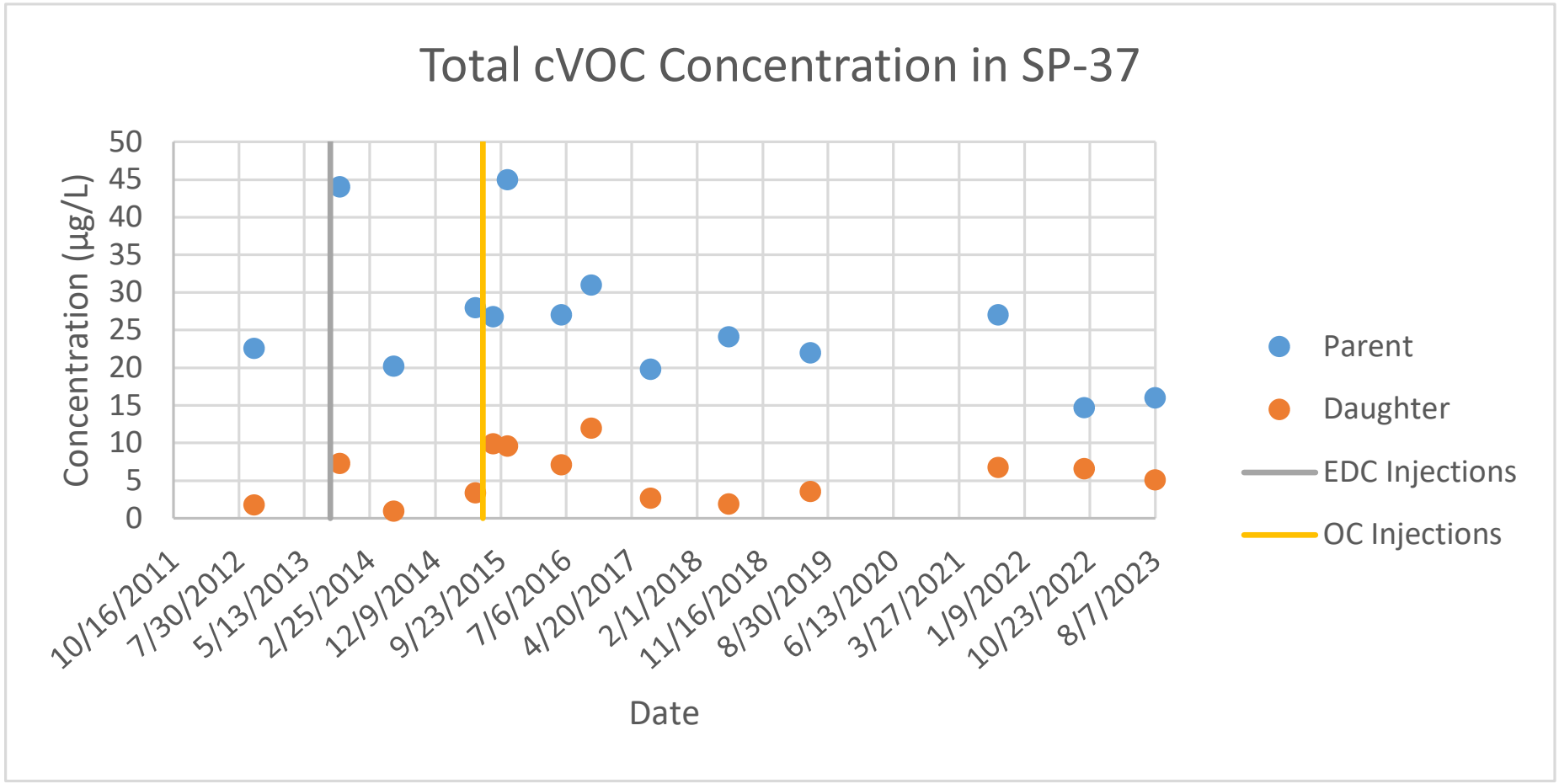
Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = No Value; NS = Not Sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

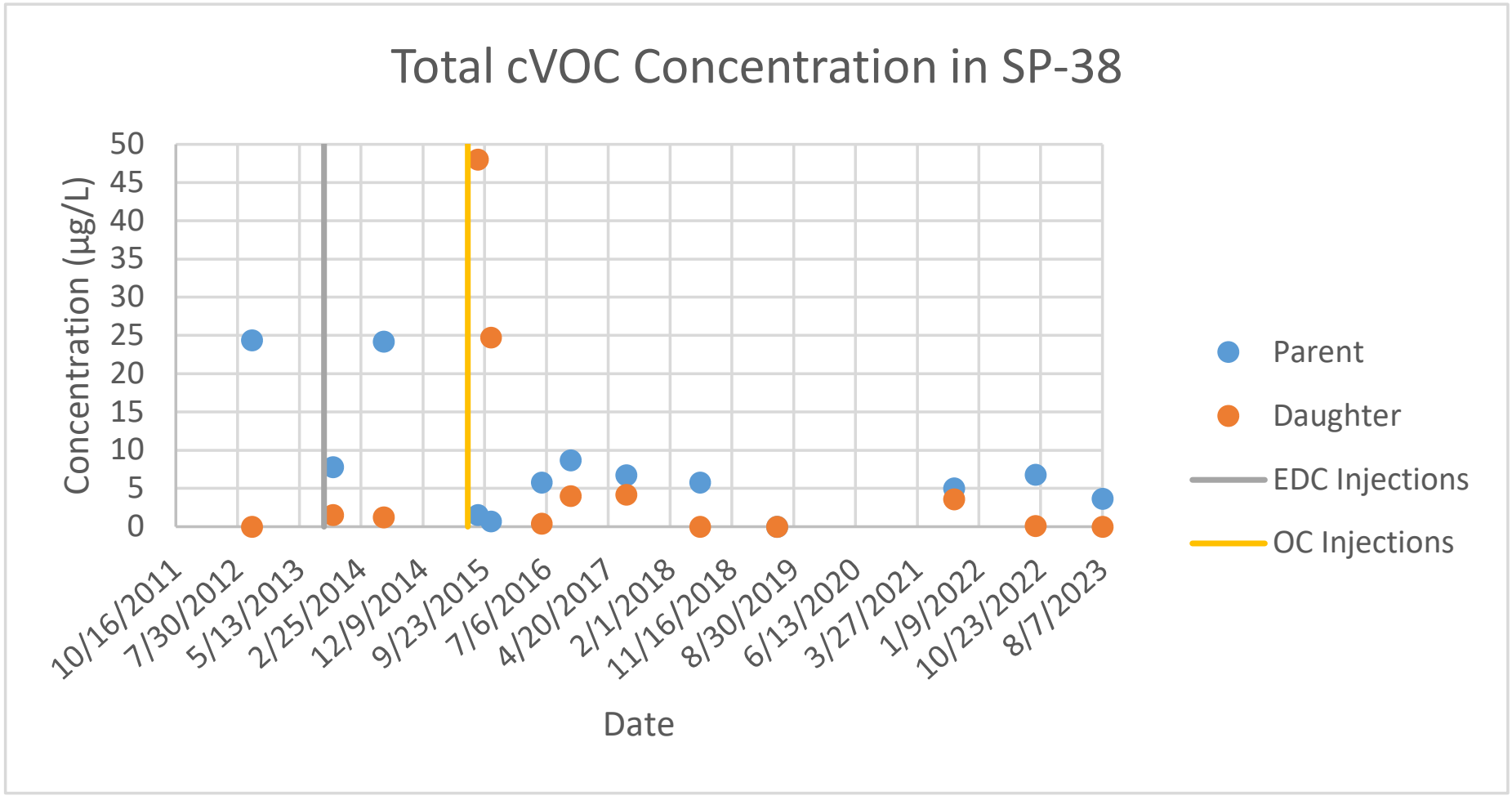
ATTACHMENT D

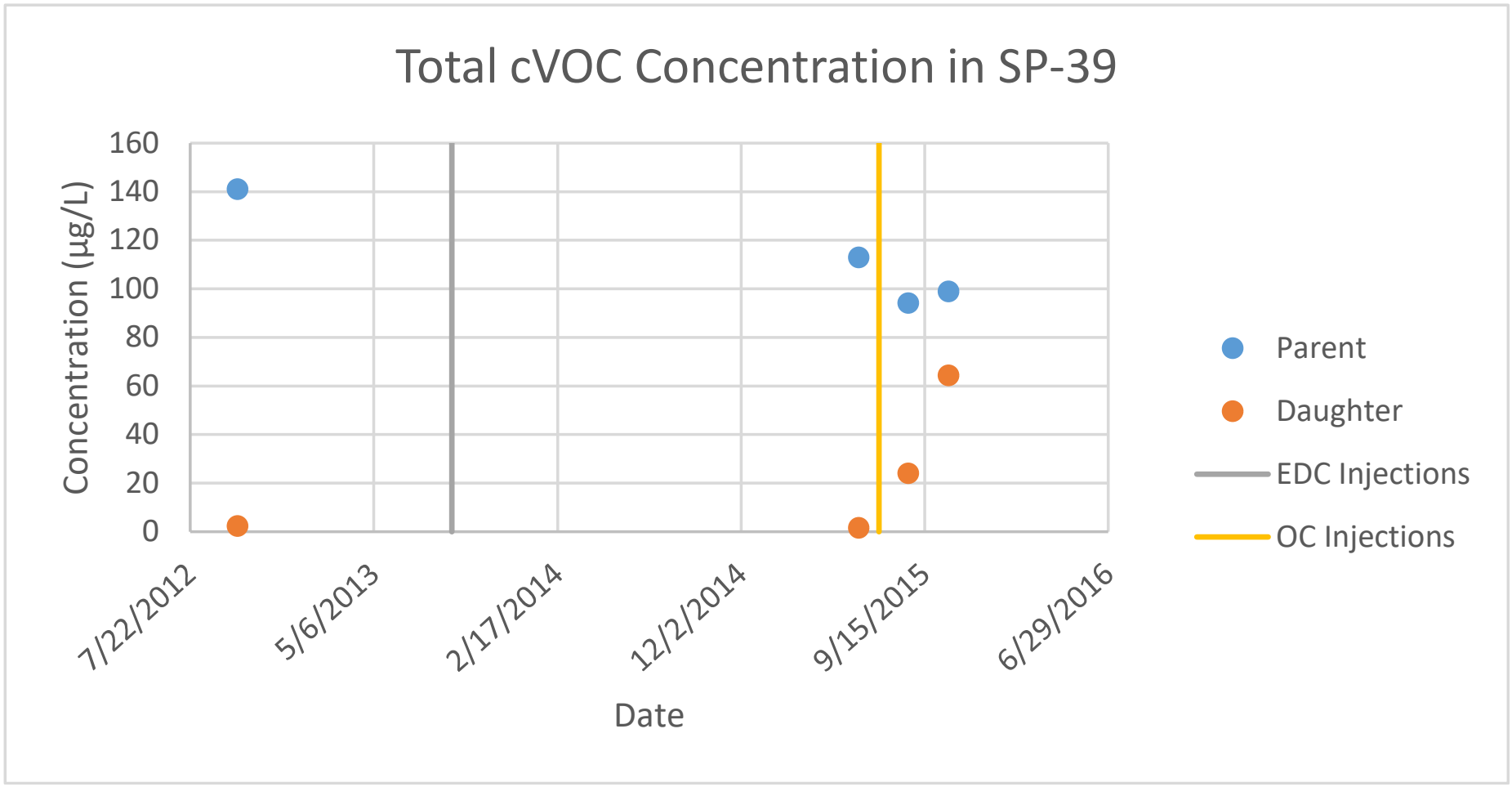
CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS IN GROUNDWATER

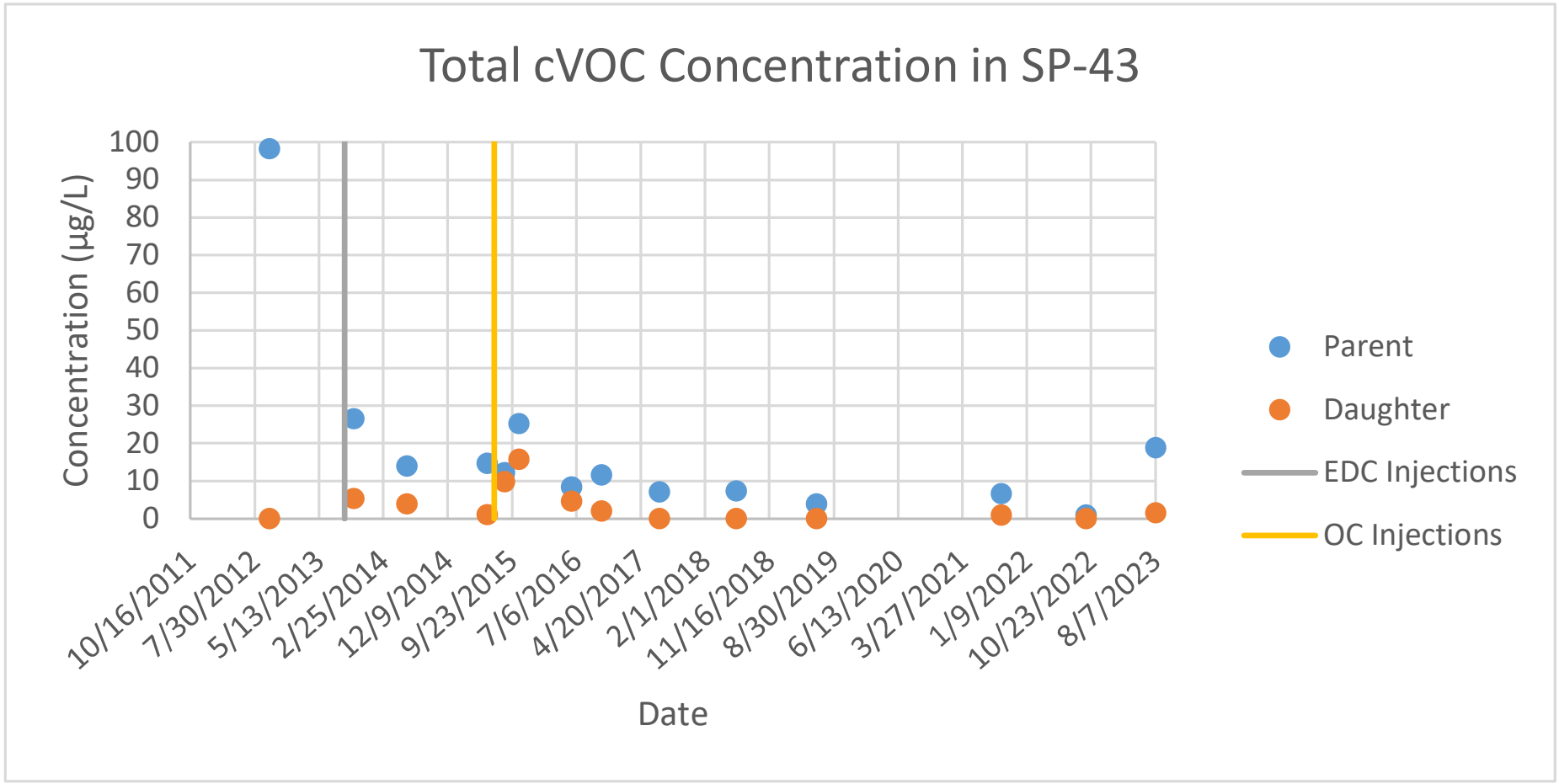

Total cVOC Concentration in EW-1.25
Concentration (µg/L)
120
100
80
60
40
20
0
80
70
60
50
40
30
20
10
0
8/24/2012
5/1/2013
1/6/2014
9/13/2014
5/21/2015
1/26/2016
10/2/2016
6/9/2017
2/14/2018
10/22/2018
6/29/2019
3/5/2020
11/10/2020
7/18/2021
3/25/2022
11/30/2022
8/7/2023
Date
Parent
Daughter
EDC Injections
OC Injections

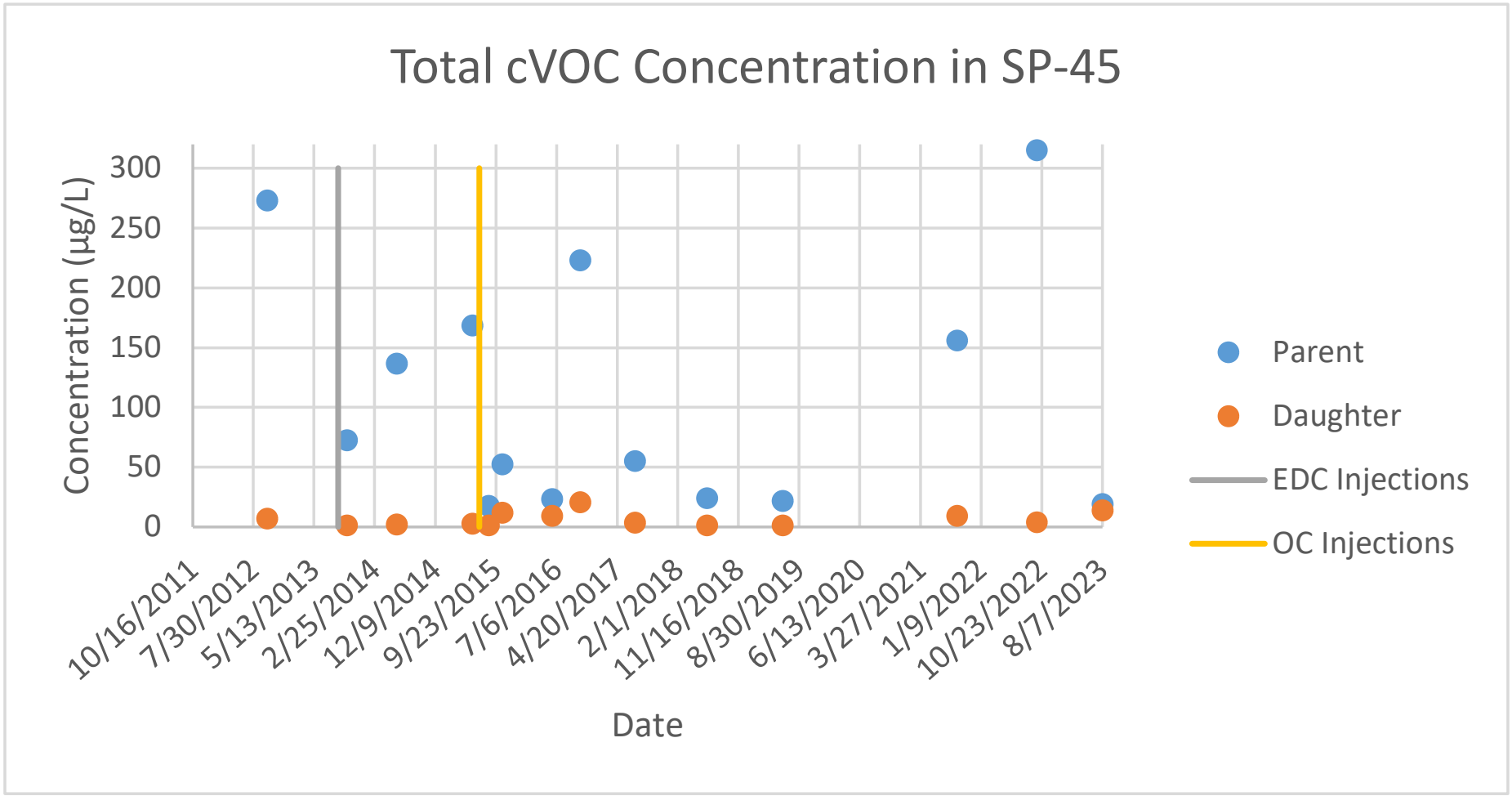

Total cVOC Concentration in SP-32
Concentration (µg/L)
140
120
100
80
60
40
20
0
10/18/2011
7/31/2012
5/14/2013
2/26/2014
12/10/2014
9/24/2015
7/7/2016
4/20/2017
2/2/2018
11/16/2018
8/31/2019
6/13/2020
3/27/2021
1/9/2022
10/23/2022
8/7/2023
Date
Parent
Daughter
EDC Injections
OC Injections

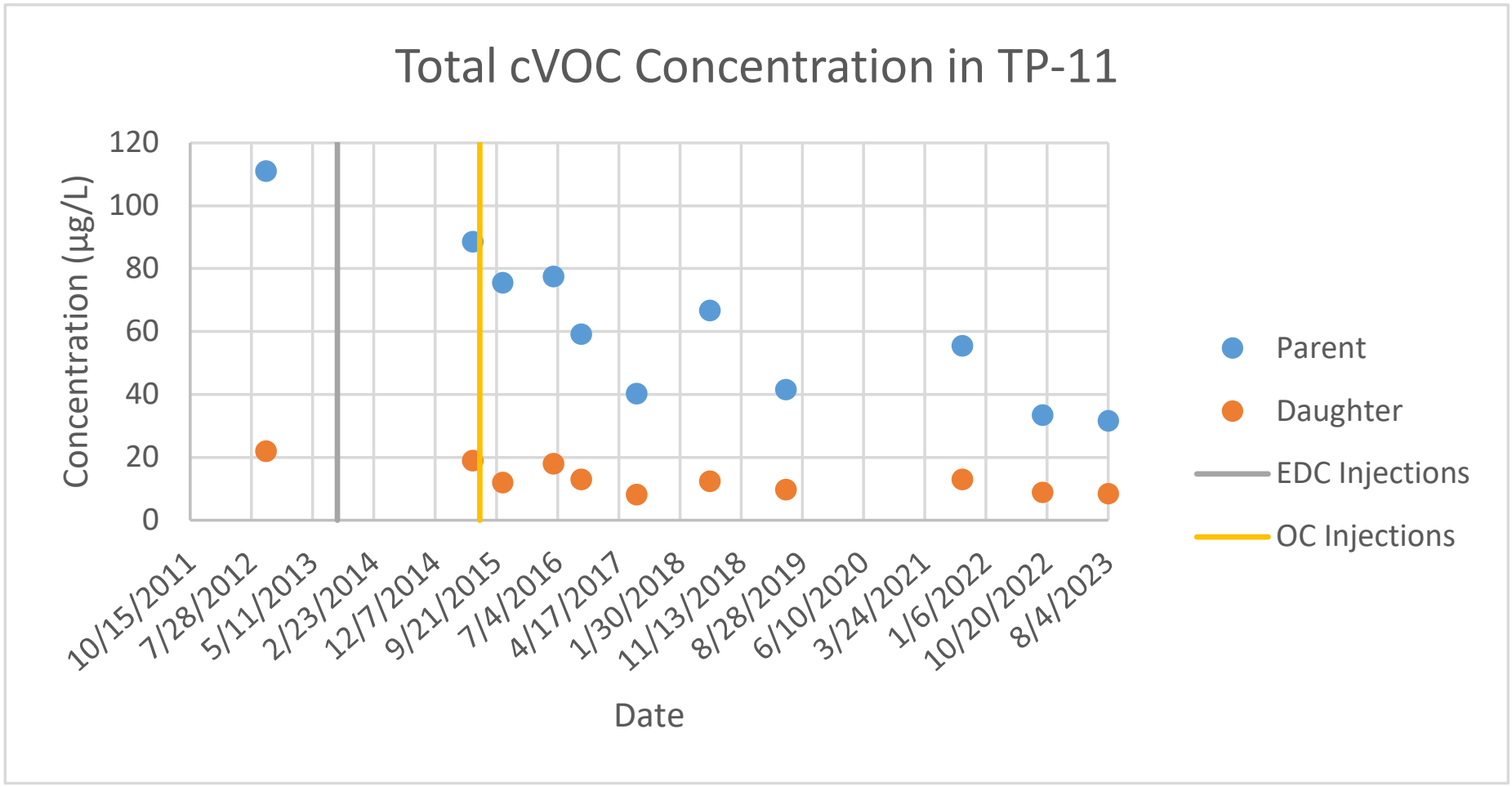

Total cVOC Concentration in SP-37
Concentration (µg/L)
50
45
40
35
30
25
20
15
10
5
0
10/16/2011
7/30/2012
5/13/2013
2/25/2014
12/9/2014
9/23/2015
7/6/2016
4/20/2017
2/1/2018
11/16/2018
8/30/2019
6/13/2020
3/27/2021
1/9/2022
10/23/2022
8/7/2023
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-38
Concentration (µg/L)
50
45
40
35
30
25
20
15
10
5
0
10/16/2011
7/30/2012
5/13/2013
2/25/2014
12/9/2014
9/23/2015
7/6/2016
4/20/2017
2/1/2018
11/16/2018
8/30/2019
6/13/2020
3/27/2021
1/9/2022
10/23/2022
8/7/2023
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-39
Concentration (µg/L)
160
140
120
100
80
60
40
20
0
7/22/2012
5/6/2013
2/17/2014
12/2/2014
9/15/2015
6/29/2016
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-43
Concentration (µg/L)
100
90
80
70
60
50
40
30
20
10
0
10/16/2011
7/30/2012
5/13/2013
2/25/2014
12/9/2014
9/23/2015
7/6/2016
4/20/2017
2/1/2018
11/16/2018
8/30/2019
6/13/2020
3/27/2021
1/9/2022
10/23/2022
8/7/2023
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-45
Concentration (µg/L)
300
250
200
150
100
50
0
10/16/2011
7/30/2012
5/13/2013
2/25/2014
12/9/2014
9/23/2015
7/6/2016
4/20/2017
2/1/2018
11/16/2018
8/30/2019
6/13/2020
3/27/2021
1/9/2022
10/23/2022
8/7/2023
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in TP-11
Concentration (µg/L)
120
100
80
60
40
20
0
10/15/2011
7/28/2012
5/11/2013
2/23/2014
12/7/2014
9/21/2015
7/4/2016
4/17/2017
1/30/2018
11/13/2018
8/28/2019
6/10/2020
3/24/2021
1/6/2022
10/20/2022
8/4/2023
Date
Parent
Daughter
EDC Injections
OC Injections

ATTACHMENT E

LABORATORY REPORT

ANALYTICAL REPORT

Lab Number:	L2345896
Client:	GZA GeoEnvironmental of New York 300 Pearl Street Suite 700 Buffalo, NY 14202
ATTN:	Thomas Bohlen
Phone:	(716) 844-7050
Project Name:	SIGNORE POST INJECTION GW SAMP
Project Number:	21.0056367.68
Report Date:	09/07/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: SIGNORE POST INJECTION GW SAMP
Project Number: 21.0056367.68

Lab Number: L2345896
Report Date: 09/07/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2345896-01	SP-32-080723	WATER	55-57 JEFFERSON STREET	08/07/23 10:55	08/09/23
L2345896-02	SP-37-080723	WATER	55-57 JEFFERSON STREET	08/07/23 11:50	08/09/23
L2345896-03	SP-38-080723	WATER	55-57 JEFFERSON STREET	08/07/23 13:20	08/09/23
L2345896-04	SP-43-080723	WATER	55-57 JEFFERSON STREET	08/07/23 14:25	08/09/23
L2345896-05	SP-45-080723	WATER	55-57 JEFFERSON STREET	08/07/23 15:10	08/09/23

Project Name:	SIGNORE POST INJECTION GW SAMP	**Lab Number:**	L2345896
Project Number:	21.0056367.68	**Report Date:**	09/07/23

Case Narrative

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

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

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

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

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

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

Project Name:	SIGNORE POST INJECTION GW SAMP	**Lab Number:**	L2345896
Project Number:	21.0056367.68	**Report Date:**	09/07/23

Case Narrative (continued)

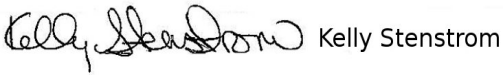
Report Revision

September 07, 2023: The Volatile Organics results have been corrected on L2345896-05. It was determined that trans-1,2-Dichloroethene was incorrectly identified.

Report Submission

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

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

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 09/07/23

ORGANICS

VOLATILES

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-01
Client ID: SP-32-080723
Sample Location: 55-57 JEFFERSON STREET

Date Collected: 08/07/23 10:55
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:28
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.55		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	12		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-01 Date Collected: 08/07/23 10:55

Client ID: SP-32-080723 Date Received: 08/09/23

Sample Location: 55-57 JEFFERSON STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.6	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-02
Client ID: SP-37-080723
Sample Location: 55-57 JEFFERSON STREET

Date Collected: 08/07/23 11:50
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:50
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	7.1		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	8.9		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-02 Date Collected: 08/07/23 11:50

Client ID: SP-37-080723 Date Received: 08/09/23

Sample Location: 55-57 JEFFERSON STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	5.1		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-03
Client ID: SP-38-080723
Sample Location: 55-57 JEFFERSON STREET

Date Collected: 08/07/23 13:20
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/11/23 20:12
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.42	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-03 Date Collected: 08/07/23 13:20

Client ID: SP-38-080723 Date Received: 08/09/23

Sample Location: 55-57 JEFFERSON STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-04
Client ID: SP-43-080723
Sample Location: 55-57 JEFFERSON STREET

Date Collected: 08/07/23 14:25
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/11/23 20:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	13		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.39	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.9		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-04 Date Collected: 08/07/23 14:25

Client ID: SP-43-080723 Date Received: 08/09/23

Sample Location: 55-57 JEFFERSON STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.2	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-05
Client ID: SP-45-080723
Sample Location: 55-57 JEFFERSON STREET

Date Collected: 08/07/23 15:10
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/11/23 20:57
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	8.0		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.73	J	ug/l	2.5	0.70	1
Trichloroethene	11		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

SAMPLE RESULTS

Lab ID: L2345896-05 Date Collected: 08/07/23 15:10

Client ID: SP-45-080723 Date Received: 08/09/23

Sample Location: 55-57 JEFFERSON STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	13		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:05
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1816122-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:05
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1816122-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:05
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1816122-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:05
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1823765-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:05
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1823765-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: SIGNORE POST INJECTION GW SAMP **Lab Number:** L2345896

Project Number: 21.0056367.68 **Report Date:** 09/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 19:05
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1823765-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SIGNORE POST INJECTION GW SAMP

Project Number: 21.0056367.68

Lab Number: L2345896

Report Date: 09/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1816122-3 WG1816122-4								
Methylene chloride	90		90		70-130	0		20
1,1-Dichloroethane	94		94		70-130	0		20
Chloroform	95		95		70-130	0		20
Carbon tetrachloride	98		99		63-132	1		20
1,2-Dichloropropane	92		93		70-130	1		20
Dibromochloromethane	90		93		63-130	3		20
1,1,2-Trichloroethane	91		93		70-130	2		20
Tetrachloroethene	94		93		70-130	1		20
Chlorobenzene	95		93		75-130	2		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	92		94		70-130	2		20
1,1,1-Trichloroethane	93		95		67-130	2		20
Bromodichloromethane	91		93		67-130	2		20
trans-1,3-Dichloropropene	90		91		70-130	1		20
cis-1,3-Dichloropropene	91		92		70-130	1		20
Bromoform	86		88		54-136	2		20
1,1,2,2-Tetrachloroethane	93		94		67-130	1		20
Benzene	95		95		70-130	0		20
Toluene	94		93		70-130	1		20
Ethylbenzene	94		94		70-130	0		20
Chloromethane	95		91		64-130	4		20
Bromomethane	73		78		39-139	7		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SIGNORE POST INJECTION GW SAMP

Project Number: 21.0056367.68

Lab Number: L2345896

Report Date: 09/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1816122-3 WG1816122-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	93		92		61-145	1		20
trans-1,2-Dichloroethene	93		92		70-130	1		20
Trichloroethene	90		92		70-130	2		20
1,2-Dichlorobenzene	95		95		70-130	0		20
1,3-Dichlorobenzene	96		95		70-130	1		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	87		89		63-130	2		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	95		94		70-130	1		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	100		98		36-147	2		20
Acetone	99		100		58-148	1		20
Carbon disulfide	96		95		51-130	1		20
2-Butanone	92		94		63-138	2		20
4-Methyl-2-pentanone	82		86		59-130	5		20
2-Hexanone	86		89		57-130	3		20
Bromochloromethane	93		93		70-130	0		20
1,2-Dibromoethane	92		93		70-130	1		20
1,2-Dibromo-3-chloropropane	84		86		41-144	2		20
Isopropylbenzene	95		95		70-130	0		20
1,2,3-Trichlorobenzene	88		90		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SIGNORE POST INJECTION GW SAMP

Project Number: 21.0056367.68

Lab Number: L2345896

Report Date: 09/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1816122-3 WG1816122-4								
1,2,4-Trichlorobenzene	91		92		70-130	1		20
Methyl Acetate	86		90		70-130	5		20
Cyclohexane	97		96		70-130	1		20
1,4-Dioxane	92		88		56-162	4		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	96		93		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	98		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SIGNORE POST INJECTION GW SAMP

Project Number: 21.0056367.68

Lab Number: L2345896

Report Date: 09/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1823765-3 WG1823765-4								
Methylene chloride	90		90		70-130	0		20
1,1-Dichloroethane	94		94		70-130	0		20
Chloroform	95		95		70-130	0		20
Carbon tetrachloride	98		99		63-132	1		20
1,2-Dichloropropane	92		93		70-130	1		20
Dibromochloromethane	90		93		63-130	3		20
1,1,2-Trichloroethane	91		93		70-130	2		20
Tetrachloroethene	94		93		70-130	1		20
Chlorobenzene	95		93		75-130	2		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	92		94		70-130	2		20
1,1,1-Trichloroethane	93		95		67-130	2		20
Bromodichloromethane	91		93		67-130	2		20
trans-1,3-Dichloropropene	90		91		70-130	1		20
cis-1,3-Dichloropropene	91		92		70-130	1		20
Bromoform	86		88		54-136	2		20
1,1,2,2-Tetrachloroethane	93		94		67-130	1		20
Benzene	95		95		70-130	0		20
Toluene	94		93		70-130	1		20
Ethylbenzene	94		94		70-130	0		20
Chloromethane	95		91		64-130	4		20
Bromomethane	73		78		39-139	7		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SIGNORE POST INJECTION GW SAMP

Project Number: 21.0056367.68

Lab Number: L2345896

Report Date: 09/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1823765-3 WG1823765-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	93		92		61-145	1		20
trans-1,2-Dichloroethene	93		92		70-130	1		20
Trichloroethene	90		92		70-130	2		20
1,2-Dichlorobenzene	95		95		70-130	0		20
1,3-Dichlorobenzene	96		95		70-130	1		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	87		89		63-130	2		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	95		94		70-130	1		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	100		98		36-147	2		20
Acetone	99		100		58-148	1		20
Carbon disulfide	96		95		51-130	1		20
2-Butanone	92		94		63-138	2		20
4-Methyl-2-pentanone	82		86		59-130	5		20
2-Hexanone	86		89		57-130	3		20
Bromochloromethane	93		93		70-130	0		20
1,2-Dibromoethane	92		93		70-130	1		20
1,2-Dibromo-3-chloropropane	84		86		41-144	2		20
Isopropylbenzene	95		95		70-130	0		20
1,2,3-Trichlorobenzene	88		90		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SIGNORE POST INJECTION GW SAMP

Project Number: 21.0056367.68

Lab Number: L2345896

Report Date: 09/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1823765-3 WG1823765-4								
1,2,4-Trichlorobenzene	91		92		70-130	1		20
Methyl Acetate	86		90		70-130	5		20
Cyclohexane	97		96		70-130	1		20
1,4-Dioxane	92		88		56-162	4		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	96		93		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	98		100		70-130

Project Name: SIGNORE POST INJECTION GW SAMP
Project Number: 21.0056367.68

Lab Number: L2345896
Report Date: 09/07/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345896-01A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-01B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-01C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-02A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-02B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-02C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-03A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-03B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-03C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-04A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-04B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-04C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-05A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-05B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-05C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2345896-06A	Vial HCl preserved	A	NA		4.4	Y	Absent		-
L2345896-06B	Vial HCl preserved	A	NA		4.4	Y	Absent		-
L2345896-06C	Vial HCl preserved	A	NA		4.4	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	SIGNORE POST INJECTION GW SAMP	**Lab Number:**	L2345896
Project Number:	21.0056367.68	**Report Date:**	09/07/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SIGNORE POST INJECTION GW SAMP	**Lab Number:**	L2345896
Project Number:	21.0056367.68	**Report Date:**	09/07/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	SIGNORE POST INJECTION GW SAMP	**Lab Number:**	L2345896
Project Number:	21.0056367.68	**Report Date:**	09/07/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	SIGNORE POST INJECTION GW SAMP	**Lab Number:**	L2345896
Project Number:	21.0056367.68	**Report Date:**	09/07/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Page 1 of 2

Date Rec'd in Lab: 8/10/23

ALPHA Job #: L2345896

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Client Information

Client: GZA
Address: 300 Pearl St. Suite 700
Buffalo NY 14202
Phone: 716 803 5717
Fax:
Email: thomas.bohlen@gza.com

Project Information

Project Name: Signore Post Injection GW Sampling
Project Location: 55-57 Jefferson Street
Project #: 21.0056367.68
(Use Project name as Project #) ☐
Project Manager: Thomas Bohlen
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

EQuIS latest NYSDEC deliverable

Please specify Metals or TAL.

ANALYSIS

VOC-8260

Sample Filtration

☐ Done
☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC-8260	Total Bottle	Sample Specific Comments
458960-01	SP-32-080723	8-7-23	1055	W	MB	X		
-02	SP-37-080723	"	1150	"	"	X		
-03	SP-38-080723	"	1320	"	"	X		
-04	SP-43-080723	"	1425	"	"	X		
-05	SP-45-080723	"	1510	"	"	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	8/8/23 1950	Alpha Secure Storage	8/8/23 1950
Alpha Secure Storage	8/9/23 7:00		8/9/23 7:00
	8/9/23 7:00		8/10/23 0130

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

Form No: 01-25 HC (rev. 30-Sept-2013)