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2019 PERIODIC REVIEW REPORT
FORMER SIGNORE, INC.
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
Site Number C905034

April 11, 2019
File No. 21.0056367.82

PREPARED FOR:
Iskalo Ellicottville Holdings, LLC
Williamsville, New York

GZA GeoEnvironmental of New York
300 Pearl Street, 7th Floor | Buffalo, New York 14202
716-685-2300

31 Offices Nationwide
www.gza.com

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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 11, 2019
File No. 21.0056367.82

Mr. David Szymanski
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203

Re: 2019 Periodic Review Report
Former Signore, Inc.
Ellicottville, New York
Brownfield Cleanup Program Site (Number C905034)

Dear Mr. Szymanski:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this Periodic Review Report (PRR) on behalf of Iskalo Ellicottville Holdings, LLC (Iskalo). Iskalo is the owner and operator of the Former Signore, Inc. Brownfield Cleanup Program (BCP) Site (No. 905034; Site) located at 55-57 Jefferson Street in Ellicottville, New York. This is the third PRR to be submitted for the Site for which a Certificate of Completion (COC) was issued by the New York State Department of Environmental Conservation (NYSDEC) on December 11, 2015. GZA prepared this PRR in general conformance with the guidelines provided to Iskalo by the NYSDEC in their reminder notice letter dated January 28, 2019.

If you have any questions or need additional information, please call Jim Richert at (716) 844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Jim Richert
James J. Richert, P.G.
Senior Project Manager

Bart A. Klettke
Bart A. Klettke, P.E.
Principal

cc: David Chiazza (Iskalo Ellicottville Holdings, LLC)

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FIGURES

APPENDICES

1.0 EXECUTIVE SUMMARY

1.1 BACKGROUND

The Former Signore, Inc. Site (Site) is in the Village of Ellicottville, Cattaraugus County, New York (**Figure 1**). The 8.43-acre BCP Site is part of the larger approximate 55-acre former Signore property addressed at 55-57 Jefferson Street. The 55-acre former Signore property is currently listed as a Class 4 site on the NYSDEC's Registry of Inactive Hazardous Waste sites (Site No. 905023), and involves groundwater contaminated with chlorinated volatile organic compounds (cVOCs).

The 8.43-acre BCP Site is currently occupied by a concrete slab (associated with a former 168,000 square foot main building that was demolished in July and August 2012) and three smaller ancillary buildings. Additional Site features include a paved parking area along the eastern and southern side of the concrete slab, and gravel and short vegetative ground cover surrounding the concrete slab on its northern, southern, and western sides. The Site is bounded by residences and the rest of the former Signore property to the north; residences, the rest of the former Signore property, and wooded vacant land to the south; Jefferson Street, residences, and a cemetery to the east; and the rest of the former Signore property to the west.

Environmental investigations identified localized petroleum-impacted soil and groundwater in historical underground storage tank (UST) areas. Groundwater sampling confirmed the presence of cVOCs at concentrations above NYSDEC Class GA groundwater criteria. Two interim remedial measures (IRMs) were completed in 2011 and 2013 to remove several USTs, septic tanks and associated impacted soils.

The remedial action objectives (RAOs) for groundwater targeted compliance with the NYSDEC Class GA criteria, and reducing the potential exposure from inhalation of organic vapors, ingestion, and dermal contact with contaminated groundwater.

In July 2015, GZA implemented an organic carbon electron donor substrate (OCEDS) injection program to enhance and accelerate natural attenuation of cVOCs in the groundwater. **Figure 4** illustrates the locations of the ODEDS injection points.

A Certificate of Completion (COC) of the BCP remedy was issued by NYSDEC to Iskalo on December 11, 2015.

Institutional Controls Include:

- Property use may include restricted residential, restricted commercial, and/or restricted industrial uses;
- Groundwater may not be used without prior treatment and approval of the regulator;
- All future activities that will disturb remaining subsurface contaminated material must be conducted as defined in the SMP (in the Excavation Work Plan);
- Access to the Site must be provided to representatives of the State of New York;

Engineering Controls Include:

- Evaluation of vapor intrusion on new buildings and/or installation and operation of vapor mitigation systems;
- Groundwater monitoring must be performed and reported as defined in the SMP;

In a letter from the Department dated August 15, 2018, Iskalo received acceptance of the 2018 PRR and of the recommendation to decrease the semi-annual and groundwater remedy sampling and analysis frequency to annual. **(Appendix A)**

1.2 EFFECTIVENESS OF THE REMEDIAL PROGRAM

Contaminant sources have been removed from the Site. Natural attenuation of cVOCs in the groundwater continues to reduce their concentrations as indicated by data collected during groundwater monitoring program. Potential impacts of vapor intrusion will be evaluated for any new on-site buildings and vapor mitigation implemented as necessary. Therefore, the Site remedy continues to be effective at meeting the Site's RAOs.

1.3 COMPLIANCE

On November 1, 2018, GZA observed the Site as in compliance with the SMP. The Institutional Controls and Engineering Controls (IC/ECs) remain in place and there are no active remedial systems requiring monitoring or operation and maintenance.

PFAS and 1,4-Dioxane Sampling

In a letter dated April 19, 2018, **(Appendix A)** the Department required that Iskalo sample a select number of Site wells for PFAS and 1,4-dioxane. On June 27, 2018, GZA, on behalf of Iskalo, submitted a workplan for sampling of four representative Site wells for PFAS and 1,4-dioxane. **(See Appendix A).**

As part of the June 2018 annual groundwater monitoring event, wells were assessed for siltation and some found in need of redevelopment. On September 20, 2018 select wells were redeveloped. One well (EW-1.25) was filled with tightly-packed sediment to a depth above that of the screened interval and could not be redeveloped with the assistance of a drilling subcontractor. This well is scheduled for abandonment, replacement, and development prior to the next (June 2019) sampling event.

1.4 RECOMMENDATIONS

Except for the replacement of well EW-1.25, GZA and Iskalo recommend no other changes to the SMP or frequency of PRR submittals at this time. Implementation of the SMP, including the Excavation Work Plan, evaluation for soil vapor intrusion during site development, and annual groundwater monitoring will proceed in conformance with the Environmental Easement. As required by NYSDEC, Iskalo will sample for emerging contaminants during the 2019 groundwater sampling event.

2.0 SITE OVERVIEW

2.1 SITE LOCATION AND FEATURES

The Former Signore, Inc. Site is in the Village of Ellicottville, Cattaraugus County, New York (**Figure 1**). The 8.43-acre BCP Site is part of the larger approximate 55-acre former Signore property addressed at 55-57 Jefferson Street. The 55-acre former Signore property is currently listed as a Class 4 site on the NYSDEC's Registry of Inactive Hazardous Waste sites (Site No. 905023), and includes groundwater contaminated with chlorinated volatile organic compounds (cVOCs).

The BCP Site is currently occupied by of the concrete slab foundation associated with the former main building, as well as three smaller ancillary buildings. Areas not occupied by the concrete slab include a paved parking area along the eastern and southern side of the slab, and gravel and short vegetative ground cover surrounding the slab on its northern, southern, and western sides. The Site is bounded by residences and the rest of the former Signore property to the north; residences, the rest of the former Signore property, and wooded vacant land to the south; Jefferson Street, residences, and a cemetery to the east; and the rest of the former Signore property to the west.

2.2 INVESTIGATION AND REMEDIAL HISTORY

The Site formerly included localized petroleum-impacted soil and groundwater in historical UST areas, which were remediated during two IRMs in 2011 and 2013. Several USTs and septic tanks and associated impacted soils were removed during these IRMs. Groundwater sampling events conducted prior to and following the IRMs indicated the presence of cVOCs at concentrations above groundwater criteria. GZA determined that the cVOC-impacted groundwater at the Site would require remediation to reduce contaminant concentrations prior to the anticipated redevelopment.

The Remedial Action Objectives (RAOs) for the Site included:

Groundwater:

- Prevent ingestion of groundwater with contaminant levels exceeding NYSDEC Class GA drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.
- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

Soil:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

Soil Vapor:

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

In July 2015, GZA implemented an OCEDS injection program to enhance and accelerate natural attenuation of cVOCs.

Remediation of the Site under the BCP followed Track 2 of the program to achieve restricted residential cleanup status. Soils with constituents exceeding the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for Restricted Residential Use (RRSCOs) were remediated during the IRM activities conducted in 2011 and 2013. Additional remedial actions pertaining to subsurface soils were not required as part of the final remedy. Based on the

results of the groundwater sampling conducted following the full-scale OCEDS injection program, the OCEDS injections were successful in reducing total cVOC concentrations, and continued reductions in concentrations by enhanced natural attenuation are anticipated.

3.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

GZA performed a Site Inspection on November 1, 2018, during the reporting period. A log of photographs taken during the inspection is provided in **Appendix B**, a Site inspection form was completed (**Appendix C**), and a map showing the locations and orientation of the Site photographs is provided as **Figure 2**. No evidence of Site activity or excavations were observed during the inspection. The Site groundwater monitoring wells remain present for continued monitoring use and the Site remains vacant and undeveloped (excepting the remaining concrete slab and three ancillary buildings).

Appendix D provides copies of the June 2018 post-injection and site-wide groundwater monitoring reports (provided to NYSDEC on August 27, 2018). Data collected under the post-injection groundwater monitoring program confirm that natural attenuation of cVOCs in the groundwater continues.

During the June 2018 annual groundwater monitoring event, GZA identified well MW-1I as having a damaged protective cover and well EW-1.25 as containing significant sediment within the screened interval. On July 20, 2018 GZA attempted to redevelop well EW-1.25 using a bailer and pump to no avail. On September 24, 2018, with assistance of a drilling subcontractor, GZA replaced the protective cover of well MW-1I and further attempted to clear the sediment from well EW-1.25. The well cleaning and redevelopment effort was unsuccessful due to the tightness of the sediment in the well. GZA and our drilling subcontractor has been contracted by Iskalo to abandon and replace well EW-1.25 prior to the 2019 annual sampling event, planned for June 2019.

The Site remedy continues to be effective at meeting the Site RAOs for protection of potential current and future Site users.

4.0 INSTITUTIONAL CONTROL/ENGINEERING CONTROL (IC/EC) PLAN COMPLIANCE REPORT

4.1 IC/EC REQUIREMENTS AND COMPLIANCE

IC/ECs for the Site were determined by NYSDEC and specified in the Decision Document (DD) issued by NYSDEC on July 24, 2015. The IC/ECs were carried forward in the Environmental Easement (EE), issued by NYSDEC on July 28, 2015, and later again included in the Site Management Plan (SMP) (prepared by GZA and approved by NYSDEC on October 6, 2015). Complete lists of the Site IC and ECs are provided in Sections 3.2 and 3.3 of the SMP. Summary lists of the ICs and ECs for the Site are provided as follow:

Summary of Site Institutional Controls:

- Property use may include restricted residential, restricted commercial, and/or restricted industrial uses;
- Groundwater may not be used without prior treatment and approval of the regulator;
- Access to the Site must be provided to representatives of the State of New York;
- Groundwater monitoring must be performed and reported as defined in the SMP;

- All future activities that will disturb remaining subsurface contaminated material must be conducted as defined in the SMP; and
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site and any potential impacts identified must be monitored or mitigated.

Summary of Site Engineering Controls:

- Vapor intrusion will be evaluated on new buildings and mitigation systems. Sub-slab depressurization system(s), if installed, will be operated and monitored with NYSDEC and NYSDOH concurrence.
- Groundwater monitoring to assess natural attenuation will continue, as determined by NYSDEC in consultation with NYSDOH, until residual groundwater concentrations are found consistently below ambient water quality standards or have become asymptotic at an acceptable level over an extended period.

During the reporting period of March 12, 2018 to March 12, 2019, the following activities took place at the Site:

- The annual groundwater monitoring;
- The annual post-remedial-injection groundwater monitoring;
- Two attempts to clear and redevelop well EW-1.25;
- Repairs to the protective cover of well MW-1I

Based on observations made during the Site inspection and discussions with Iskalo, the Site owner is complying with the IC/ECs. The Site remains undeveloped and inactive. With exception of one well (EW-1.25) which is scheduled for replacement, the Site groundwater monitoring wells remain in place and functional. No occupied building structures are present on-Site and Site groundwater is not being used.

4.2 IC/EC CERTIFICATION

The Site-specific IC/EC Certification Form, for reporting period of March 12, 2018 to March 12, 2019, was provided to Iskalo as an attachment to the January 28, 2019 Reminder Notice letter sent by NYSDEC. This form has been completed by Iskalo as Site owner. The completed IC/EC Certification Form for this reporting period is provided in **Appendix E** of this PRR.

5.0 PRR CONCLUSIONS AND RECOMMENDATIONS

5.1 PRR CONCLUSIONS

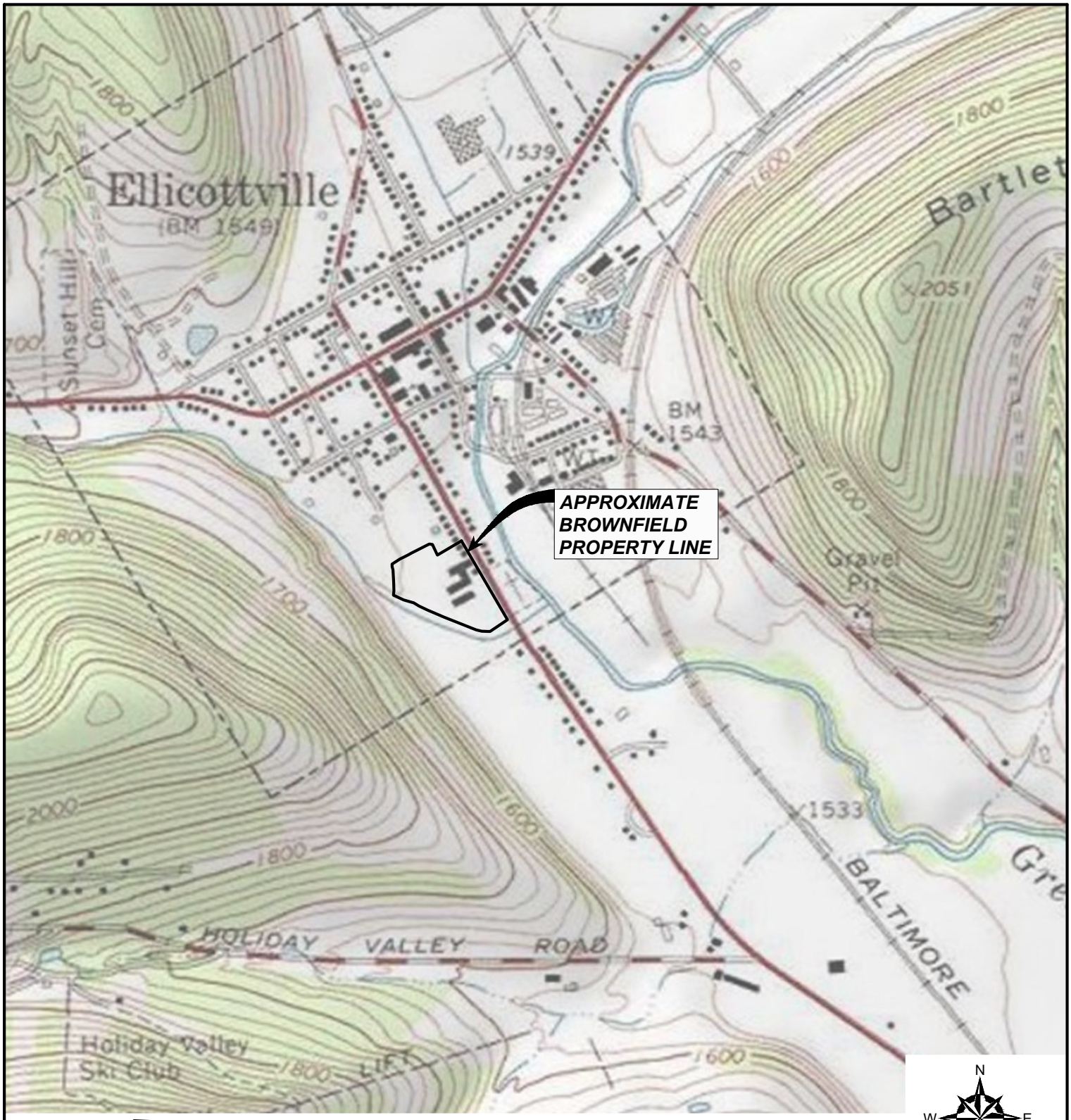
GZA observed the BCP Site to be in compliance with provisions of the SMP. The IC/ECs remain in place and are unchanged since issuance the ending of the prior reporting period. There are no active remedial systems requiring operation, monitoring, or maintenance.

5.2 PRR RECOMMENDATIONS

GZA will replace well EW-1.25 prior to the summer 2019 groundwater sampling event. In addition, four wells will be sampled for emerging contaminants as outlined in the NYSDEC-approved work plan **(Appendix A).**

GZA and Iskalo recommend no other actions, changes to the SMP, or frequency of PRR submittals at this time. Implementation of the SMP, including the Excavation Work Plan and evaluation for soil vapor intrusion, will proceed as the Site is redeveloped in compliance with the Environmental Easement.

FIGURES



NEW YORK

NOTE:
BASE MAP ADAPTED FROM USA TOPO MAPS USING ArcGIS AUTOCAD PLUGIN

0 500 1000 2000
APPROXIMATE SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

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PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
BUFFALO, NEW YORK 14202
(716) 685-2300

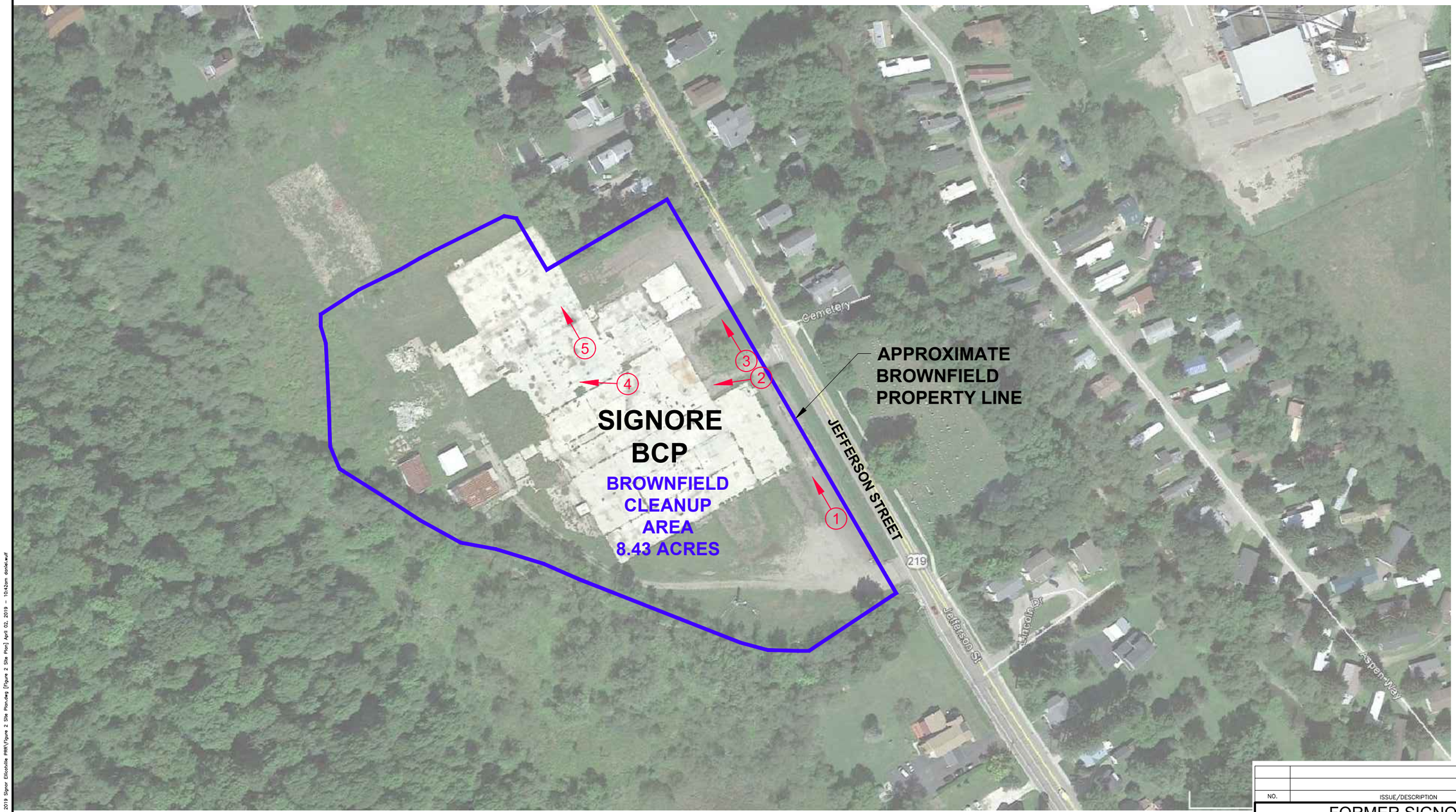
PREPARED FOR:
ISKALO DEVELOPMENT CORPORATION

FORMER SIGNORE, INC.
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034
PERIODIC REVIEW REPORT
LOCUS PLAN

FIGURE
1

PROJ MGR:	JJR	REVIEWED BY:	JJR	CHECKED BY:	BAK	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:	JJR	DRAWN BY:	DEW	SCALE:	AS SHOWN	APRIL 2019	21.0056367.82	

© 2019 – GZA GeoEnvironmental of N.Y. GZA–K:\PROJECTS\56300s\56367.82 2019 Signor Ellicottville PRR\Figure 1 – Locus Plan.dwg [Figure 1] April 02, 2019 – 10:43am daniel.wulf



NOTES:

1. BASE MAP ADAPTED FROM A 2016 AERIAL PHOTO DOWNLOADED FROM GOOGLE EARTH PRO AND FIELD OBSERVATIONS.

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

LEGEND:

(1) → APPROXIMATE LOCATION AND ORIENTATION OF INSPECTION PHOTOGRAPHS COLLECTED ON 11-1-2018 (SEE APPENDIX A)

0 75 150 300

SCALE IN FEET

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NO.	ISSUE/DESCRIPTION	BY	DATE

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

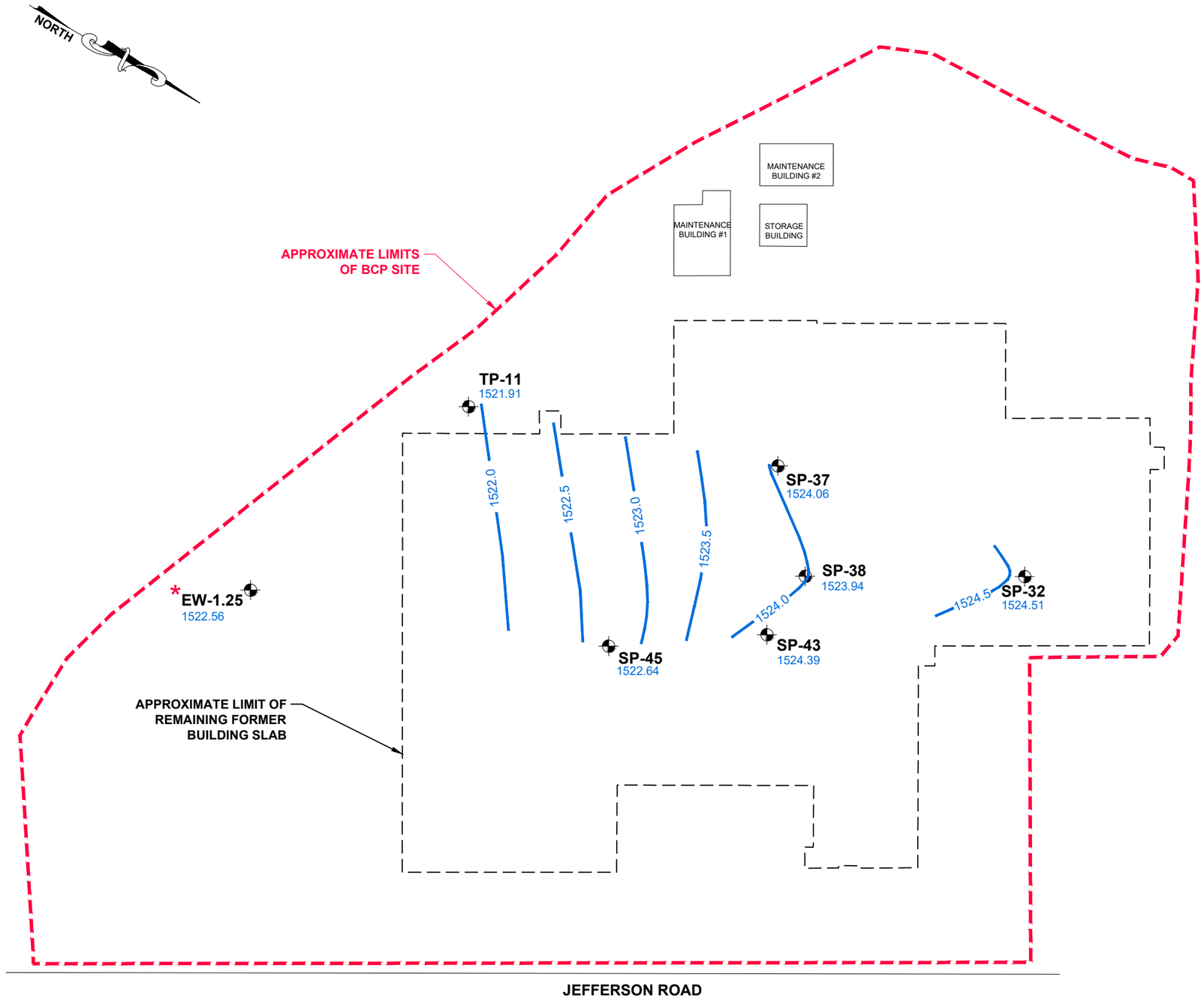
PERIODIC REVIEW REPORT
PHOTOGRAPH ORIENTATION MAP

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR:
ISKALO DEVELOPMENT INCORPORATED

PROJ MGR: JJR	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 2
DESIGNED BY: JJR	DRAWN BY: DEW	SCALE: AS SHOWN	
DATE APRIL 2019	PROJECT NO. 21.0056367.82	REVISION NO.	

©2019 – GZA GeoEnvironmental of N.Y. GZA-K:\PROJECTS\56300\56367.82 2019 Signor Ellicottville PRR\Figure 2 Site Plan.dwg [Figure 2 Site Plan] April 02, 2019 – 10:42am donle.wulf



LEGEND:

SP-37 1524.06 — APPROXIMATE LOCATION AND DESIGNATION OF 1" MICROWELL.GROUNDWATER ELEVATION MEASURED ON JUNE 21, 2018.

1524.5 — APPROXIMATE LOCATION AND ELEVATION OF GROUNDWATER CONTOUR LINE BASED ON MEASUREMENTS TAKEN ON JUNE 21, 2018.

* 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

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

JUNE 2018 POST-INJECTION GROUNDWATER MONITORING REPORT, MICROWELL GROUNDWATER ELEVATION CONTOUR PLAN

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: JJR	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 3
DESIGNED BY: JJR	DRAWN BY: DEW	SCALE: 1" = 80'	
DATE: APRIL 2019	PROJECT NO. 21.0056367.64	REVISION NO.	

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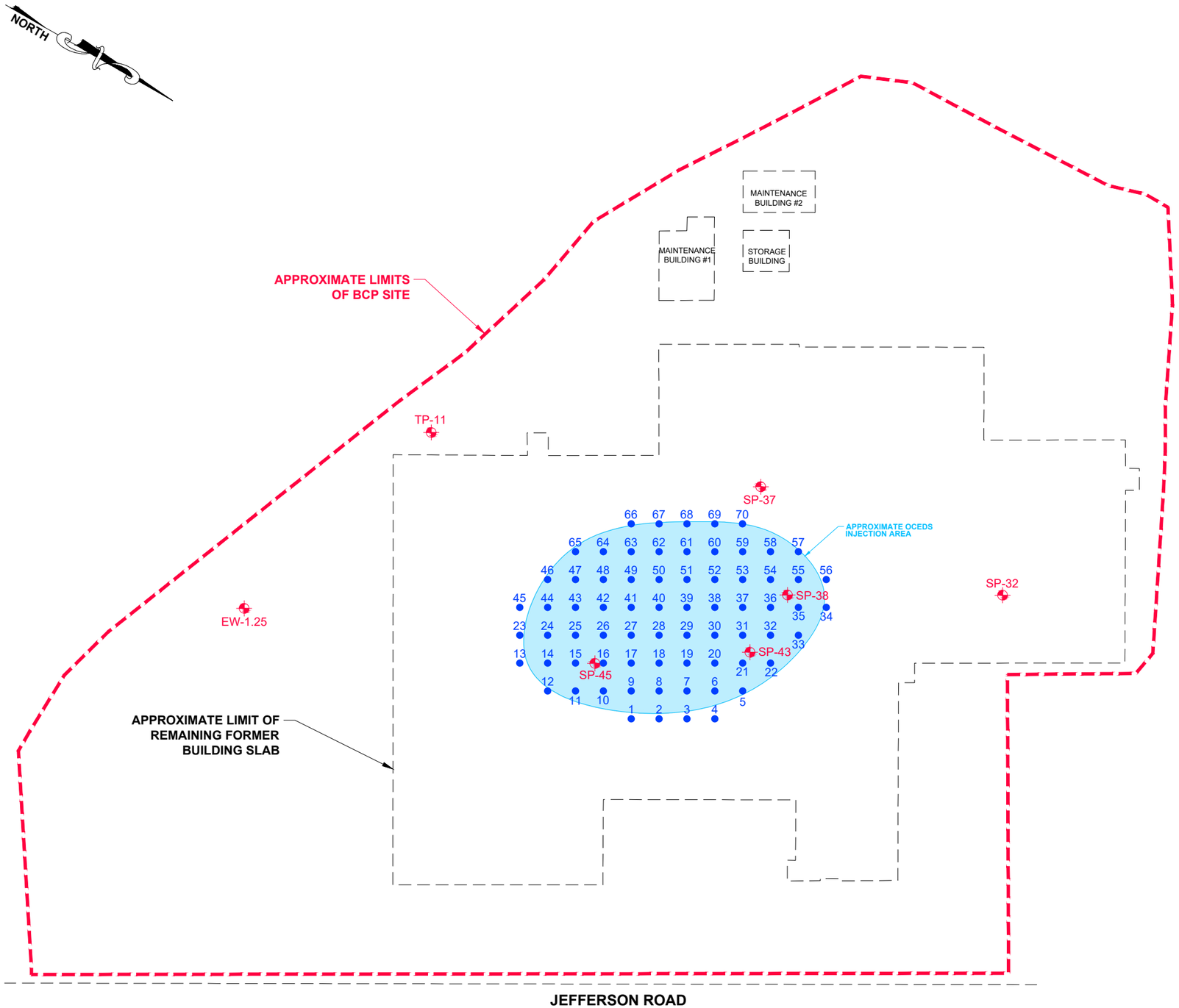
GZA-K:\PROJECTS\56300s\56367.82 2019 Signor Ellicotville PRR\Figure 3 Inj-1.dwg [Figure 3] April 02, 2019 - 12:04pm daniel.wulf



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. BASE MAP ADAPTED FROM A 2006 AERIAL PHOTOGRAPH DOWNLOADED FROM www.cattco.org/real_property/parcel_ news.asp AND FIELD OBSERVATIONS.

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

0 40 80 160

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

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

JUNE 2018 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: JJR	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 4
DESIGNED BY: JJR	DRAWN BY: DEW	SCALE: 1" = 60'	
DATE: APRIL 2019	PROJECT NO. 21.0056367.82	REVISION NO.	

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GZA-K:\PROJECTS\56300s\56367.82 2019 Signor Ellicotville PRR\[Figure 4 Inj-2.dwg [Figure 4] April 02, 2019 - 12:05pm daniel.wulf

APPENDIX A
NYSDEC CORRESPONDENCE

APPENDIX A1

April 19, 2018 NYSDEC letter to Iskalo
Requesting Groundwater Sampling for Emerging Contaminants

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

April 19, 2018

Mr. David Chiazza
Iskalo Ellicottville Holding, LLC
5166 Main Street
Williamsville, NY 14221

Dear Mr. Chiazza:

Request for Sampling of Emerging Contaminants
Site Name: Signore Inc.,
Ellicottville, Cattaraugus County
Site ID: **905023**

The New York State Department of Environmental Conservation (DEC) is undertaking a Statewide evaluation of remediation sites to better understand the risk posed to New Yorkers by 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS). PFAS have historically not been evaluated at remediation sites, and 1,4-dioxane has not been evaluated at the levels that are now thought to represent a health concern. This initiative is being undertaken as a result of these "emerging contaminants" having been found in a number of drinking water supplies in New York. Accordingly, the DEC is requiring that you test site groundwater for these chemicals. To accommodate this requirement, a select number of existing monitoring wells, representative of the potential of the above-referenced site to be a source of these emerging contaminants, must be sampled. DEC recommends that at least one of these wells should be up gradient of the site.

The attached guidance provides information on the analytical methods and reporting requirements. A second guidance document describes special precautions that need to be considered when sampling for PFAS.

Please prepare a draft letter work plan that identifies the wells proposed for sampling, brief description of the sampling methods, and anticipated sampling date within the next 60 days. If you wish to discuss the scope of the requested water testing, please contact me at 716-851-7220 or Jaspal.walia@dec.ny.gov.

Sincerely,

Jaspal S. Walia, P.E.
Project Manager

JSW/tm

ec: C. Staniszewski, NYSDEC
J. Richert, GZA Geo Environmental of New York

Appendix A2

August 15, 2018 NYSDEC letter to Iskalo
Approving the 2018 PRR
and
Approving the Request to Reduce Sampling Frequency to Annual

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

August 15, 2018

Iskalo Ellicottville Holdings LLC
David Chiazza
5166 Main Street
Williamsville, NY 14221

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter
Former Signore, Inc., Ellicottville
Cattaraugus County, Site No.: C905034

Dear Mr. Chiazza (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: March 12, 2017 to March 12, 2018.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year and your next PRR is due on April 11, 2019. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

Please note: The Department has reviewed your Consultant's (GZA's) recommendation to modify groundwater sampling frequency from semi-annual to annual (Section 5.2 of the PRR,) and agrees with such modification. Please ensure that this modification to the Site Management Plan is properly filed for future reference.

If you have any questions, or need additional forms, please contact me at 716-851-7220 or e-mail: jaspal.walia@dec.ny.gov.

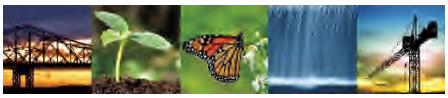
Sincerely,

David Szymanski
Environmental Program Specialist -1

ec: Chad Staniszewski - NYSDEC
Jaspal Walia - NYSDEC
James Richert – GZA GeoEnvironmental of New York
Bart Klettke – GZA GeoEnvironmental of New York

Appendix A3

GZA Work Plan for Sampling of Emerging Contaminants



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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

June 27, 2018
File No. 21.0056867.00

Mr. Jaspal S. Walia, P.E.
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203
jaspal.walia@dec.ny.gov

Re: Work Plan
Sampling and Analysis of Emerging Contaminants
Former Signore, Inc., Superfund Site (Site Number 905023)
55-57 Jefferson Street
Ellicottville, NY 14731

Dear Jaspal:

On behalf of our client, Iskalo Ellicottville Holding, LLC (Iskalo), GZA GeoEnvironmental of New York (GZA) provides this work plan to NYSDEC for groundwater sampling and analysis of emerging contaminants at the above referenced property (Site). This work plan was developed in response to the April 19, 2018 letter[1] to Iskalo from NYSDEC. That letter requested sampling for emerging contaminants in Site groundwater, including per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane.

BACKGROUND

The Signore Inc. property is currently listed as site number 905023, a Class 4 site on the NYSDEC Inactive Hazardous Waste Site (IHWS) listing. As you know, NYSDEC is undertaking a Statewide evaluation of remediation sites to better understand the risk posed by PFAS and 1,4-dioxane. PFAS have historically not been evaluated at remediation sites, and 1,4-dioxane has not been evaluated at levels that are now thought to represent a health concern. This initiative is being undertaken as a result of the emerging contaminants having been found in a number of drinking water supplies in New York.

This scope of work pertains to the NYSDEC requested sampling of four groundwater monitoring wells located at the Signore Superfund Site.

[1] Request for Sampling of Emerging Contaminants, Site Name: Signore, Inc., Ellicottville, Cattaraugus County, Site ID: 905023 from NYSDEC to Iskalo Ellicottville Holding, LLC

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SCOPE OF WORK

Task 1: Project Preparation

GZA will prepare an updated Site-specific Health and Safety Plan (HASP) for protection of GZA field personnel, addressing potential risks of exposure and safety issues associated with the sampling tasks. GZA will coordinate with an analytical laboratory, ALS Global (ALS, Kelso, Washington), prior to the commencement of field activities.

Task 2: Well Sampling

GZA will sample four existing wells on the Superfund Site: MW-4S (upgradient groundwater flow direction), MW-5S, EW-1.25, and EW-4.5 (**Figure 1**).

Due to the potential presence of PFAS in common consumer products and in equipment typically used to collect groundwater samples, and the low detection limits associated with laboratory PFAS analysis, special handling and care must be taken when collecting samples.

Personal Protective Equipment

Disposable nitrile gloves must be worn at all times. Further, a new pair of nitrile gloves will be donned prior to the following activities at each sample location during:

1. Decontamination of re-usable sampling equipment. The water level is the anticipated piece of re-usable equipment requiring decontamination, as remaining equipment contacting purged and sampled groundwater is dedicated and disposable (HDPE and silicone tubing).
2. Contact with sample bottles or water containers.
3. Insertion of anything into the well (e.g., tubing, water level).
4. Insertion of silicon tubing into the peristaltic pump.
5. Sample collection, at completion of monitoring well purging.
6. Handling of quality assurance/quality control samples including field blanks and equipment blanks.

New gloves will also be worn after the handling of any non-dedicated sampling equipment, contact with non-decontaminated surfaces, or when judged necessary by field personnel.

Equipment Cleaning and Decontamination

Prior to GZA's arrival on-Site, a water level indicator, water quality meter, and flow-through cell will be cleaned by rinsing with potable water, washing with a solution of laboratory detergent (granular Alconox®) and potable water, and rinsing with potable water and then verified PFAS-free water provided by ALS. The water level indicator will be cleaned between sampling locations at the Site using the granular Alconox® solution. Liquinox® has potentially been shown to contain low levels of 1,4-dioxane and will not be used. GZA contacted an Alconox chemist via telephone, who confirmed granular Alconox does not contain PFAS or 1,4-dioxane. The water level will be cleaned by removing gross contamination (if encountered) from the probe. The water level will then be cleaned using the granular Alconox and potable water solution. The equipment will then be rinsed with potable water, and then rinsed again with PFAS-free water provided by ALS. The water level will then be left to air dry between sampling locations. Decontamination water will be placed on the ground with the purged groundwater generated during the sampling event.

New disposable HDPE tubing (for placement down into the well and connection to the water quality meter) and silicone tubing (for the pump head) will be used for sampling at each location. Therefore, there will be no need to clean the sample tubing. Generated dedicated sampling materials will be disposed of as solid waste.

A variable-speed peristaltic pump will be used to purge groundwater from the monitoring wells. Groundwater will remain within the HDPE and silicone tubing and will not come in contact with the pump, so the pump will not need to be decontaminated between monitoring locations. New flexible silicone tubing within the pump will be used at each well sampling location.

Equipment Calibration

A water quality meter and organic vapor meter (OVM) will be used for the groundwater sampling and each will require calibration. Equipment will be calibrated in accordance with the manufacturers' requirements.

Monitoring & Purging Methodologies

Prior to accessing the monitoring wells, field staff will make observations about the general exterior conditions of the monitoring wells (i.e., condition of the surface seal, damage to the protective casing, etc.). These observations will be noted on plain paper (not typical waterproof field books, which may contain PFAS) to record notes and data at each monitoring well sampling location.

The OVM, equipped with photoionization detector (PID) and a 10.6 eV ultraviolet lamp, will be used to screen the top of the well riser immediately upon removal of the monitoring well riser cap. OVM readings will be recorded on the field sampling log.

Prior to the start of the monitoring and purge event, a static water level will be measured from the top of the monitoring well riser and recorded on the monitoring well sampling log. New HDPE polyethylene tubing will be lowered into the monitoring well and positioned at the approximate vertical center of the well screen intake zone. Information about the well screen intake depth and depth of well will be taken from the existing monitoring well logs.

The peristaltic pump will be started and operated at a flow rate that minimizes draw-down of the water column within the well. The first set of water quality readings will be collected when the flow-through cell is completely full and water begins to flow out. Readings will be recorded every five minutes once a constant head has been established and will continue until water quality readings stabilize for three successive readings. These three successive readings should be within ± 0.1 for pH, ±3% for conductivity, ± 10 mV for oxidation reduction potential (ORP) and ± 10% for turbidity and dissolved oxygen (DO). Once a constant head is established, pumping flow rates should not be altered. Sampling flow rates will be kept consistent with purging/monitoring flow rates. Altering the flow rates may adversely change the chemistry within the well (i.e., stagnant water within the well may mix with formation water coming into the well and not be representative).

Once the water quality readings have stabilized after a constant head has been established, groundwater analytical samples will be collected. The HDPE tubing from the peristaltic pump to the water quality meter will be disconnected from the input to the water quality meter and used to fill the appropriate groundwater sample jars, provided by the laboratory. Groundwater to be collected for analysis will not enter the flow-through cell, to minimize the chance of cross contamination.

After the appropriate sample containers have been filled, the pump will be shut off. The tubing removed from the monitoring well and pump head and will be disposed of as solid waste. The flow-through cell and water quality meter will be rinsed with potable water to remove sediment that may have accumulated.

Water generated during the purging/monitoring and equipment decontamination will be placed on the ground in the vicinity of the monitoring well from which it was generated.

Sample Collection Method/Sequence

1. Samples for laboratory analyses will be collected before the flow-through cell. This will be done by disconnecting the HDPE tubing from the flow through cell so that the samples are collected directly from the pump tubing.
2. Using new nitrile gloves, the sample for PFAS will be collected *first*, prior to collecting samples for other parameters (1,4-dioxane) into other containers. This avoids contact with any other type of sample container, bottles or package materials that may have PFAS-related content.
3. The sample bottle cap will not be placed on any surface when collecting the sample. All contact with the inside of the sample bottle or its cap will be avoided.
4. Once the sample is collected, capped and labeled, the sample will be placed in an individual re-sealable plastic bag and then into loose ice within the cooler.

Groundwater Analytical Testing

GZA will collect a groundwater sample from four existing wells (MW-4S, MW-5S, EW-1.25, and EW-4.5) for chemical analysis of the 21 PFAS compounds and 1,4-dioxane, along with the appropriate quality control samples (trip blank, sampler blank, equipment blank, field duplicate sample, and matrix spike/matrix spike duplicate (MS/MSD) samples) for a total of nine groundwater samples to be submitted for analysis via modified EPA Method 537 (PFAS) and seven by EPA Method 8270-SIMS (1,4-dioxane). The method detection limit (MDL) for 1,4-dioxane will not exceed 0.28 µg/L (ppb). GZA stresses the critical importance of appropriate collection and analysis of Quality Assurance/Quality Control (QA/QC) samples and field equipment blanks, due to the inherent low-level PFAS MDLs (parts per trillion, ppt) and potentially negative consequences of false positive detections.

GZA assumes a ten to 15 business-day turn-around time for analytical test results. The analytical data package to be provided by the laboratory will be an Analytical Services Protocol (ASP) Category B package. NYSDEC requires third-party data validation for this sampling and analysis event. The sub-contracted data validator will prepare a Data Usability Summary Report (DUSR) as detailed in Section 2 of Appendix 2B of NYSDEC DER-10, (Technical Guidance for Site Investigation and Remediation).

Currently, the Environmental Laboratory Approval Program (ELAP) does not offer method certification for PFAS compounds in groundwater. As requested by NYSDEC, collected samples will be analyzed for the following PFAS by modified EPA Method 537 (certified drinking water method). The laboratory report must show the reporting detection limits (RDLs) for each compound and the lab must report the results to the RDL. RDLs for PFAS analysis will not exceed 2 ng/L (ppt). Only the RDLs will be reported; MDLs will not be included in the report.

Full PFAS Target Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonates	**Perfluorobutanesulfonic acid**	**PFBS**	**375-73-5**
	Perfluorohexanesulfonic acid	**PFHxS**	**355-46-4**
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	**PFOS**	**1763-23-1**
	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluoroalkyl carboxylates	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	**PFHpA**	**375-85-9**
	Perfluorooctanoic acid	**PFOA**	**335-67-1**
	Perfluorononanoic acid	**PFNA**	**375-95-1**
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7
Fluorinated telomer sulfonates	6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2
	8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4
Perfluorooctane-sulfonamides	Perfluroroctanesulfonamide	FOSA	754-91-6
Perfluorooctane-sulfonamidoacetic acids	N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSAA	2991-50-6

Bold entries depict the six original UCMR3 chemicals.

Some analytical laboratories report slightly different forms of sulfonic acids, such as PFOS (i.e., perfluorooctanesulfonic acid vs. perfluorooctane sulfonate), which vary slightly from one another in molecular weight, resulting in slight differences in reported concentrations. **Confirm with the analytical laboratory that the form of sulfonic acids being analyzed and reported correspond to the appropriate CAS Number.** If the lab analyzes for one form and reports the other form, the lab must show the conversion calculations in the report.

Quality Assurance Quality Control (QA/QC)

Many clothing items and types of field equipment may contain PFAS, which increases the potential for inadvertent contamination of the samples.

To evaluate the potential impact that these and other laboratory-provided materials may have on PFAS sampling, the following QA/QC samples shall be collected:

- Trip Blanks
  - Separate trip blanks for PFAS and 1,4-dioxane samples will be prepared by the laboratory prior to the sampling event.

- One PFAS/1,4-dioxane trip blank (respectively) per chain-of-custody, per cooler is acceptable.

- Field Duplicates
  - Duplicate samples shall be collected by filling a separate container for each analysis immediately following the collection of the primary sample (e.g., PFAS sample, PFAS duplicate sample; 1,4-dioxane sample, 1,4-dioxane duplicate sample).
  - Duplicate samples shall be collected at a frequency of one duplicate sample per twenty field samples (1:20) with a minimum of one duplicate.

- Equipment Blanks - for non-dedicated equipment used to collect samples (water level)
  - Separate equipment blanks for PFAS and 1,4-dioxane will be field prepared using PFAS-free laboratory grade deionized (DI) water provided by the laboratory.
  - Equipment blanks will consist of a sample of PFAS-free laboratory grade DI water poured over the sample collection equipment (water level) to evaluate the equipment decontamination procedures and the potential for cross-contamination between sample locations.
  - One equipment blank per type of non-dedicated equipment shall be collected per sampling event (e.g., water level meter).

- Field Blanks
  - A field blank will be collected from the PFAS-free water provided by the laboratory by pouring an aliquot of the water into the appropriate PFAS sample container immediately following the collection of the first PFAS sample by each sampler.
  - At a minimum, field blanks must be collected by each person collecting PFAS samples.

Equipment and Materials

The following table provides a summary of items that are likely to contain PFAS (i.e., prohibited items) and that are not to be used by the sampling team, along with acceptable alternatives. This list may change as new information becomes available or as determined appropriate by NYSDEC.

Category	**Prohibited Items**	**Allowable Items**
Sample Storage and Preservation	LDPE or glass bottles, PTFE-or Teflon-lined caps, chemical ice packs [2]	Laboratory-provided sample container -*preferred*; or, HDPE or polypropylene bottles with an unlined plastic screw cap, as specified by the laboratory doing the analysis, loose ice
Decontamination	Decon 90	Granular Alconox®[1], potable water followed by laboratory "PFAS-free" deionized water rinse.
Field Equipment Including: • Pumps • Tubing • Bailers	Teflon and other fluoropolymer containing materials (e.g., Teflon tubing, bailers, tape, Teflon-containing plumbing paste, or other Teflon materials)	High-density polyethylene (HDPE) – *preferred,* low density polyethylene (LDPE) or silicone tubing HDPE/LDPE or stainless-steel bailers Peristaltic pumps Stainless steel submersible pumps (e.g., ProActive stainless-steel pumps with PVC (polyvinyl chloride) leads and Geotech Stainless Steel Geosub pumps)

Category	Prohibited Items	Allowable Items
	The Grundfos Redi-Flow Submersible Pump is a submersible pump which, as of this revision, has a Teflon impeller and is not recommended for collecting PFAS samples.	Equipment with Viton components needs to be evaluated on a case by case basis. Viton contains PTFE but may be acceptable if used in gaskets or O-rings that are sealed away and will not come into contact with sample or sampling equipment.)
Field Documentation	Waterproof/treated paper or field books, plastic clipboards, non-Sharpie markers, Post-It® and other adhesive paper products	Plain Paper, metal clipboard, Sharpies[3], pens
Clothing/ laundering	Clothing or boots made of or with Gore-Tex™ or other synthetic water proof/ resistant and/or stain resistant materials, coated Tyvek® material that may contain PFAS; fabric softener	Synthetic or cotton material, previously laundered clothing (preferably previously washed greater than six times) without the use of fabric softeners. Polyurethane and wax coated materials. Boots made with polyurethane and PVC, well-worn or untreated leather boots Tyvek material that is PFAS free (e.g., uncoated)
Personal Care Products (for day of sample collection)	Cosmetics, moisturizers, hand cream and other related products	**Sunscreens:** Alba Organics Natural Yes to Cucumbers Aubrey Organics Jason Natural Sun Block Kiss My Face Baby-safe sunscreens ('free' or 'natural) **Insect Repellents**: Jason Natural Quit Bugging Me Repel Lemon Eucalyptus Herbal Armor California Baby Natural Bug Spray BabyGanics **Sunscreen and Insect Repellents:** Avon Skin So Soft Bug Guard-SPF 30
Food and Beverage	Pre-packaged food, fast food wrappers or containers	Bottled water or hydration drinks (i.e., Gatorade® and Powerade®)
Shelter	The use of a canopy/gazebo/tent, which can be erected over the sample location to provide shelter, may be considered. Note that the canopy is likely to have a treated surface and must be handled with care. Gloves must be worn when setting up and moving the tent and then changed immediately afterwards. Further contact with the tent must be avoided until all PFAS samples have been collected and properly stored.	

Notes:

1. While Liquinox soap is acceptable for use for PFAS decontamination, it may contain 1,4-dioxane, which is a site contaminant of interest. An equipment blank (water level) will be analyzed for 1,4-dioxane.
2. Samples requiring cooling must be placed in loose ice within a cooler; the use of bagged ice, block ice and ice packs is not acceptable.
3. Sharpies may be used if necessary on the labels; however, only ball point pens with black ink shall be used to record field data (e.g., calibration logs, worksheets, log books). Sharpies can bleed through pages and smudge, making the documentation hard to read.

Task 3: EQuIS Electronic Data Deliverable Submittal

NYSDEC has implemented an Environmental Information Management System (EIMS) that uses the database software application EQuIS™ (EQuIS) from EarthSoft® Inc. NYSDEC's Division of Environmental Remediation (DER) and the Division Materials Management (DMM) (formerly Solid and Hazardous Materials) require certain types of data to be submitted electronically, the Signore Site is one of those projects. DER and DMM have adopted a standardized electronic data deliverable (EDD) format that is required for data submitted. Data must be formatted to meet the guidelines specified by NYSDEC.

Data providers are responsible for submitting a complete data package. The laboratory will provide their data to GZA, who must verify the supporting tables (such as sample location coordinates) are complete.

The data will be imported into the EQuIS Data Processor (EDP) to check that the EDD as well as the NYSDEC DER Format file are properly formatted. The EDP performs a series of formatting checks on the EDD and identifies errors in the data file prior to submission. Errors must be addressed prior to submittal to NYSDEC.

Once the EDD has cleared the EDP checker, it will be submitted to NYSDEC. If the submission package is less than 25 MB in size, the compressed file is to be submitted to NYENVDATA@gw.dec.state.ny.us with a copy to the NYSDEC project manager (Mr. Jaspal Walia, P.E.). If the file is larger than 25 MB it will be submitted via CD-ROM to the NYSDEC project manager.

Task 4: Monitoring Well Data Analysis/Report Preparation

GZA will prepare a report containing our observations and conclusions and will provide an electronic copy of the report. A *DRAFT* copy of the report will be provided to NYSDEC for review and comment. The report will present the analytical data generated and provide an opinion regarding the resultant concentrations at the Superfund Site. Our letter report will include a presentation of the tabulated data and a figure representing groundwater elevations at the time of sampling.

SCHEDULE

GZA can begin work immediately upon approval of this work plan. We anticipate that the groundwater sampling will be conducted in July 2018. The comprehensive report can be issued within approximately four to six weeks from completion of sampling.

We trust this work plan meets NYSDEC's requirements. Please do not hesitate to contact Thomas Bohlen at (716) 844-7050 should you have any questions or require additional information.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

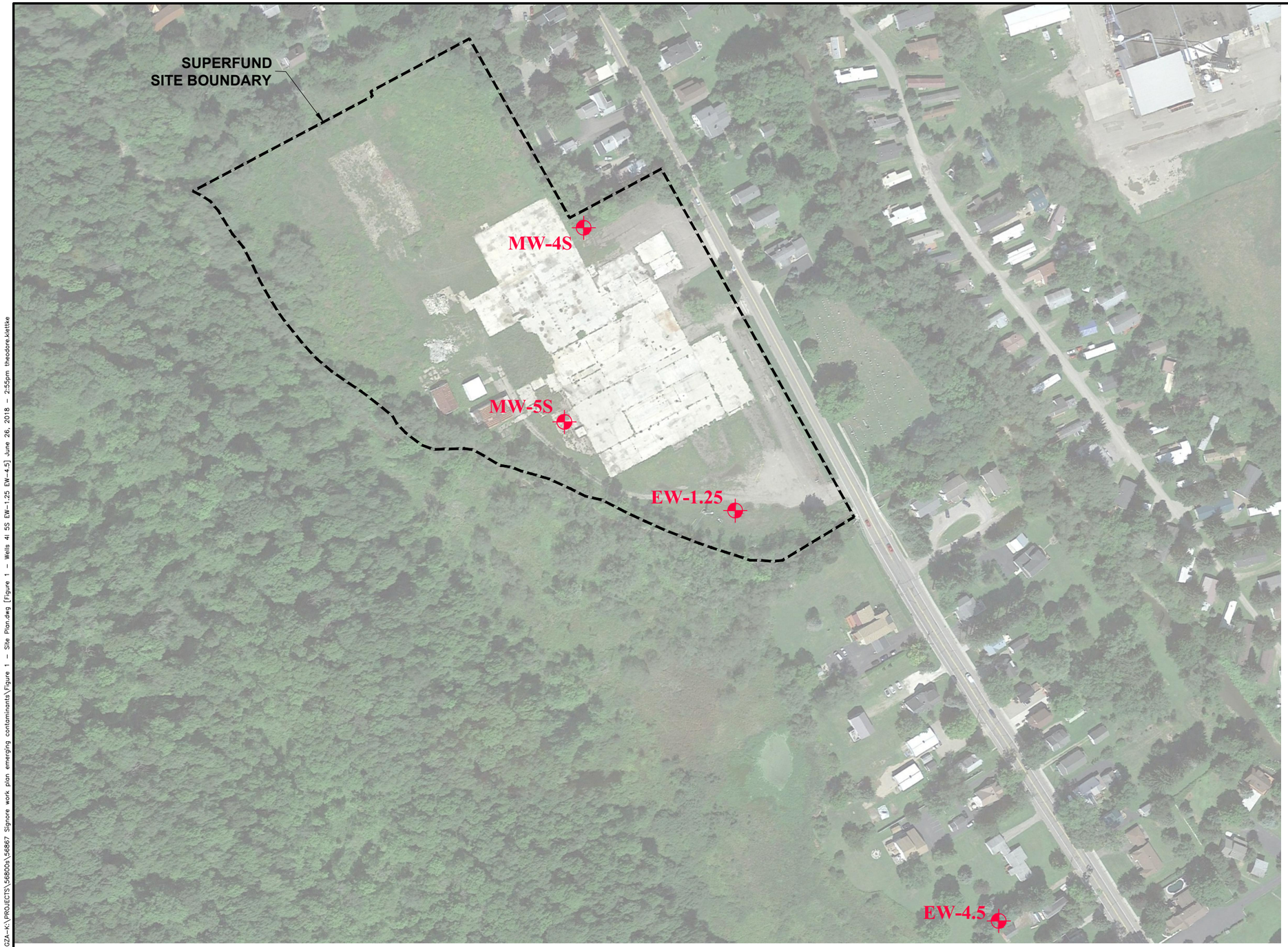
Thomas Bohlen, P.G.
Project Manager

Karen Kinsella, Ph. D.
Senior Technical Specialist

Bart A. Klettke, P.E.
Principal

Attachments: Figure 1

cc: Mr. David Chiazza, Iskalo Ellicottville Holding, LLC



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S

NOTES:

1. BASE MAP ADAPTED FROM A 2018 AERIAL IMAGE DOWLOADED FROM GOOGLE EARTH PRO AND FIELD OBSERVATIONS.

2. BLACK DASHED LINE SIGNIFIES THE LIMITS OF THE SUPERFUND SITE AS PROVIDED BY THE NYSDEC.

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

LEGEND:

MW-4S — APPROXIMATE LOCATION AND DESIGNATION OF AN EXISTING SITE MONITORING WELL PROPOSED FOR EMERGING CONTAMINANT SAMPLING

0 200 400

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
SITE 905023
55 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

GROUNDWATER WELL SAMPLING WORK PLAN, EMERGING CONTAMINANTS

SITE PLAN

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR: NYSDEC

PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 1
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE JUNE 2018	PROJECT NO. 21.0056867.00	REVISION NO.	

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GZA–K:\PROJECTS\56800s\56867 Signore work plan emerging contaminants\Figure 1 – Site Plan.dwg [Figure 1 – Wells 4I 5S EW–1.25 EW–4.5] June 26, 2018 – 2:55pm theodore.kiettke

Appendix A4

NYSDEC Email approval of GZA's PFAS Sampling Work Plan

James Richert

From: Thomas Bohlen
Sent: Thursday, March 28, 2019 11:30 AM
To: James Richert
Subject: FW: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

Thomas Bohlen, P.G.
Project Manager
GZA | 300 Pearl Street, Suite 700 | Buffalo, New York 14202
o: 716.844.7050 | c: 716.570.5983 | thomas.bohlen@gza.com | www.gza.com | LinkedIn

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From: Thomas Bohlen
Sent: Wednesday, February 20, 2019 1:27 PM
To: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Cc: Staniszewski, Chad (DEC) (chad.staniszewski@dec.ny.gov) <chad.staniszewski@dec.ny.gov>; Chiazza, David <dchiazza@Iskalo.com>
Subject: RE: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

Hi Jaspal,

If you remember from our fall activities, the most critical well at the site (EW-1.25) requires decommissioning and replacement (well screen failed and has been clogged/is not interacting with the groundwater formation). I conferred with yourself, and then Chad. The emerging contaminants testing (for which I am under contract to conduct for Iskalo) has been postponed to the spring, following new replacement well installation and development. I will forward that correspondence.

I hope else all is well, please see Chad or me with additional concerns.

Tom

Thomas Bohlen, P.G.
Project Manager
GZA | 300 Pearl Street, Suite 700 | Buffalo, New York 14202
o: 716.844.7050 | c: 716.570.5983 | thomas.bohlen@gza.com | www.gza.com | LinkedIn

Geotechnical | Environmental | Ecological | Water | Construction Management

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From: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Sent: Wednesday, February 20, 2019 1:03 PM
To: Thomas Bohlen <Thomas.Bohlen@gza.com>
Subject: RE: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

Hi Tom,

Could you please give me an update for EC sampling at the Signore site.

Thanks,

Jaspal

From: Thomas Bohlen <Thomas.Bohlen@gza.com>
Sent: Wednesday, June 27, 2018 11:45 AM
To: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Cc: Chiazza, David <dchiazza@Iskalo.com>; Bart Klettke <bart.klettke@gza.com>; Karen Kinsella <Karen.Kinsella@gza.com>
Subject: RE: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

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Good morning Jaspal,

As requested, please see the attached finalized work plan. Please reach out to me with issues or concerns.

Tom

Thomas Bohlen, P.G.
Project Manager

GZA | 300 Pearl Street, Suite 700 | Buffalo, NY 14202
o: 716-844-7050 | c: 716-570-5983 | thomas.bohlen@gza.com | www.gza.com

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From: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Sent: Wednesday, June 27, 2018 11:02 AM
To: Thomas Bohlen <Thomas.Bohlen@gza.com>
Subject: RE: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

Hi Tom,

The proposed monitoring wells for sampling for the emerging contaminants are acceptable. Please finalize this work plan and submit it for our approval.

Thanks,

Jaspal

From: Thomas Bohlen [mailto:Thomas.Bohlen@gza.com]
Sent: Tuesday, June 26, 2018 3:09 PM

To: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Cc: Staniszewski, Chad (DEC) <chad.staniszewski@dec.ny.gov>; Chiazza, David <dchiazza@lskalo.com>; Bart Klettke <bart.klettke@gza.com>
Subject: RE: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

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Hi Jaspal and Chad,

Thank you for taking my calls yesterday and for providing additional clarification regarding the draft work plan.

As I discussed with Chad, please see the attached revised work plan proposing to sample wells MW-4S, MW-5S, EW-1.25, and EW-4.5.

Please contact me with additional questions, thanks!

Tom

Thomas Bohlen, P.G.
Project Manager

GZA | 300 Pearl Street, Suite 700 | Buffalo, NY 14202
o: 716-844-7050 | c: 716-570-5983 | thomas.bohlen@gza.com | www.gza.com

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From: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Sent: Monday, June 18, 2018 3:30 PM
To: Thomas Bohlen <Thomas.Bohlen@gza.com>
Cc: Staniszewski, Chad (DEC) <chad.staniszewski@dec.ny.gov>; Chiazza, David <dchiazza@lskalo.com>; Bart Klettke <bart.klettke@gza.com>
Subject: RE: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

Hi Tom,

Based upon the previous groundwater data, the Department requests that the following wells should be sampled for emerging contaminants:

EW-1.25, EW-1.5, EW-4.5, MW-4S, and MW-5S.

Please revise the Work Plan and resubmit it for our further review.

Thanks,

Jaspal

From: Thomas Bohlen [mailto:Thomas.Bohlen@gza.com]
Sent: Wednesday, June 13, 2018 4:57 PM
To: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Cc: Staniszewski, Chad (DEC) <chad.staniszewski@dec.ny.gov>; Chiazza, David <dchiazza@Iskalo.com>; Bart Klettke <bart.klettke@gza.com>
Subject: Draft Work Plan - Sampling and Analysis of Emerging Contaminants - Signore Superfund Site

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hello Jaspal,

As requested and on behalf of our client Iskalo Ellicottville Holding, LLC, please see the attached draft work plan for sampling and analysis of emerging contaminants at the Signore Superfund Site.

Please don't hesitate to contact me with questions or concerns.

Tom

Thomas Bohlen, P.G.
Project Manager

GZA | 300 Pearl Street, Suite 700 | Buffalo, NY 14202
o: 716-844-7050 | c: 716-570-5983 | thomas.bohlen@gza.com | www.gza.com

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APPENDIX B

PHOTOGRAPH LOG

Photo 1 – Eastern portion of Site looking north.

Photo 2 – Center of Site looking west

Photo 3 – Northeastern corner of Site looking north.

Photo 4 – Northeast portion of Site looking northwest

Photo 5 – Northern Site entrance looking northeast

APPENDIX C

SITE MANAGEMENT FORM

Former Signore Site,Ellicottville, NY
BCP Site No.: C905034
Site Management Form

SITE DETAILS						
Site No.: C905034	Site Name: Former Signore, Inc.					
Site Address: 55-57- Jefferson St., Ellicottville, NY						
PERSON PERFORMING INSPECTION						
Name: Jim Richert	Email: James.Richert@GZA.com					
Company: GZA	Phone Number: 716/844-7048					
Others Present: None						
INSPECTION DATE AND SITE CONDITIONS						
Inspection Date: November 1, 2018	Inspection Time: 4:20 PM					
Weather Conditions: Overcast, Temp ~ 47 degrees F.						
REASON FOR SITE INSPECTION						
Type of Inspection: ☑ Annual Inspection ☐ Routine Maintenance Inspection ☐ Non-Routine Inspection						
Inspection after a Severe Condition that could effect Site control ☐ Yes ☑ No						
Describe severe condition triggering inspection: NA						
VERIFICATION OF SITE DETAILS						
Current Site Owner: Iskalo Ellicottville Holdings LLC						
Current Site Operator: Iskalo Ellicottville Holdings LLC						
Describe Current Site Use (*check all that apply*)						
☐ Industrial		☐ Commercial	☐ Residential		☑ Other	Vacant, awaiting redevelopment
Briefly describe observed site uses:						
ite remains vacant and awaits redevelopment. No physical changes observed since the November 2, 2017 annua						
inspection.						
Note any additional pertinent information to Verification of Site Details (use additional pages if necessary.						
DESCRIPTION OF ENGINEERING CONTROLS						
Are the Engineering Controls still in place: ☑ Yes ☐ No						
If No, explain:						
Is the Site Management Plan still in place: ☑ Yes ☐ No						
If No, explain:						
AREAS IN NEED OF REPAIR OR MAINTENANCE						
Area discussed in this section must be shown on a figure and have photographic documentation.						
None						
INTRUSIVE ACTIVITIES PERFORMED AT SITE DURING INSPECTION PERIOD						
Location:	Date:					
Description of activities being performed:						
None observed and none reported by Site owner/operator						

Are Site records being properly generated and maintained: ☑ Yes ☐ No
Provide a summary of recordkeeping review and adeuacy:
ADDITIONAL NOTES & COMMENTS
None
INSPECTION CERTIFICATION
I hereby certify that the information included in this report is complete and accurate to the best of my knowledge
Inspector Signature: Jim Richert / Date: ___November 2, 2018

APPENDIX D

POST-INJECTION AND SITE-WIDE GROUNDWATER MONITORING REPORTS (JUNE 2018)

Proactive by Design

JUNE 2018
ANNUAL GROUNDWATER MONITORING REPORT
Former Signore Inc.
55-57 Jefferson Street
Ellicottville, New York 14731

August 27, 2018
File No. 21.0056491.79

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

32 Offices Nationwide
www.gza.com

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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

August 27, 2018
File No. 21.0056491.79

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

Re: June 2018 Annual Groundwater Monitoring Report
Former Signore, Inc. Facility
55-57 Jefferson Street
Ellicottville, New York 14731

Dear David:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this annual groundwater monitoring report to Iskalo Ellicottville Holdings LLC (Iskalo). This report summarizes the analytical results of the sampling event conducted in June 2018 at the above referenced Site. The annual groundwater monitoring was performed as required by New York State Department of Environmental Conservation (NYSDEC) as specified in the Record of Decision (ROD) dated January 1992. Based upon the work conducted and the rate of chlorinated VOC (volatile organic compound) reduction observed, NYSDEC approved modification of the ROD to allow for a reduced frequency of groundwater monitoring from semi-annual to annual in fall 2017.

This report provides the analytical results of the ROD-required monitoring (12 wells sampled). The analytical results of the groundwater sampling provide useful information for documentation of concentrations of VOCs present in the on-Site groundwater as well as the areal extent of these constituents. Both on-site and off-site monitoring wells have been sampled since 1994. Comparison of over 20 years of groundwater data confirms that concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) and their breakdown products cis-1,2-dichloroethene (cis-DCE) and vinyl chloride (VC) continue to decline with less exceedances of NYSDEC Class GA groundwater standards observed.

As discussed further in the attached report, GZA recommends continued annual monitoring.

Should you have any questions or require additional information following your review, please contact Tom Bohlen at 716-844-7050.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen, P.G.
Project Manager

Karen Kinsella, Ph.D.
Senior Technical Specialist

James J. Richert, P.G.
Senior Project Manager

Bart A. Klettke, P.E.
Principal

cc: Jaspal Walia, P.E., NYSDEC

Chad Staniszewski, P.E., NYSDEC

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1.0 INTRODUCTION

In accordance with our proposal dated April 18, 2018, GZA GeoEnvironmental of New York (GZA) collected groundwater samples at eight on-Site and four off-site monitoring wells associated with the Former Signore, Inc. facility located at 55-57 Jefferson Street, Ellicottville, New York (Site). The sampling was performed on June 19 through June 21, 2018. A Locus Plan and Site Plan are attached as Figure 1 and Figure 2, respectively.

1.1 BACKGROUND AND SITE HISTORY

The Former Signore Inc. Site is currently listed as a Class 4 Site on the New York State Department of Environmental Conservation (NYSDEC), Inactive Hazardous Waste Site (IHWS) registry (Site #905023). As part of the Record of Decision (ROD) dated January 1992 issued by NYSDEC, 12 monitoring wells were to be sampled on a semi-annual basis. The former owner, Signore Inc., ceased sampling of these wells in October 2006.

In October 2007, GZA completed a Phase II ESA at the Site as part of due diligence services for Iskalo. During the Phase II activities, VOC contamination was identified in on-Site soil and groundwater. Three areas of concern (AOC) were identified where VOC concentrations in soil were greater than the NYSDEC Unrestricted Soil Cleanup Objectives (6 NYCRR Part 375[1] criteria).

Iskalo Ellicottville Holdings LLC (Iskalo) took ownership of the property in October 2007 and has conducted the semi-annual sampling activities since April 2009. The Site was accepted into the NYSDEC Brownfield Cleanup Program (BCP) as Site # C905034 in January 2011.

In late 2011, AOC-1 and the majority of AOC-2 were addressed under a NYSDEC-approved IRM work plan. VOC-impacted soils and underground storage tanks were removed for proper off-Site disposal. A portion of AOC-2 and AOC-3 were located beneath the former building during the time of the first IRM, which has since been demolished.

A Supplemental Remedial Investigation (SRI) was completed between January 2012 and January 2013. The activities included the following.

- Off-site soil vapor intrusion assessment of nine homes;
- Completion of 10 on-site test pits;
- Completion of 21 on-site soil probes;
- Collection and analysis of four on-site surface soil samples;
- Collection and analysis of 21 soil samples from the 21 soil probes; and
- Collection of 19 groundwater samples from the 14 new microwells installed as part of the SRI, and 5 existing wells.

[1] 6 New York Code Rules and Regulation (6 NYCRR) Part 375 Environmental Remediation Programs, effective December 14, 2006 (Part 375).

The magnitude and areal extent of groundwater contamination was further defined within the Signore BCP Site boundaries, during the SRI activities.

The remaining portion of AOC-2 and AOC-3 were addressed in summer 2013 as part of a 2nd IRM. Impacted soils at these locations were removed for off-site landfill disposal. A groundwater pilot test was also implemented as part of the 2nd IRM. The pilot test consisted of the injection of an electron donor compound (EDC) material that was mixed with water. A total of 2,500 pounds of EDC material was injected, 2,000 pounds in the vicinity of SP-3 and 500 pounds at SP-32.

The EDC material enhances the anaerobic breakdown of the "parent" chlorinated compounds present at the Site (TCE, PCE and TCA) via reductive dechlorination to the "daughter" breakdown products (cis-dichloroethene (cis-DCE) and vinyl chloride (VC)), which degrade under both anaerobic and aerobic conditions.

The groundwater pilot test work plan included two post-injection sampling events:

1) 1st event: not more than 3 months (Fall 2013) after the pilot test injections; and
2) 2nd event: 9 to 12 months (late Spring 2014) after the pilot test injections.

Groundwater samples were collected from six locations (EW-1.25, SP-32, SP-37, SP-38, SP-43, and SP-45) in conjunction with the October 2013 and June 2014 semi-annual groundwater sampling events. The results from the first to second pilot sampling events were as follows.

- There was a decrease in parent compound concentrations at three of the six sampling locations: EW-1.25, SP-37, and SP-43.

- There was an increase in parent compound concentrations at the other three of six locations: SP-32, SP-38 and SP-45. The slight increase in concentration was not a concern at that time and may have been due to sample variability for this particular sampling event.

- Results of the groundwater pilot test supported the use of a similar but larger scale in-situ injection program for Site groundwater remediation. A Remedial Action Work Plan, detailing the groundwater remedial program, was prepared and submitted to NYSDEC. NYSDEC approved the RAWP and the groundwater remedial injections were initiated on July 6, 2015.

The July 2015 remedial injection material consisted of Organic Carbon Electron Donor Substrate (OCEDS). The program consisted of the injection of approximately 7,000 pounds of OC material into groundwater over an approximately 12,000 ft^2 oval-shaped area of the Site. The OC material was composed of food-, feed-, and agricultural- grade additives consisting of an aqueous solution of approximately 53% lactose, 40% inactive brewer's yeast or yeast extract, 4% sodium bicarbonate, and 3% trace nutrients (inorganic nitrate, phosphate, potassium, and vitamin B12) by mass. The following materials were mixed into an injectable slurry and injected into the subsurface groundwater, per each five injection locations (10 injections):

- Lactose: 264 pounds
- MicroBlend® Yeast Extract: 20 pounds
- Sensient® Yeast Extract: 143 pounds
- Sodium bicarbonate: 21 pounds
- Miracle-Gro®: 14 pounds

The additive slurry was injected in a grid pattern encompassing 70 injection locations. The 70 injection locations were spaced approximately 20 feet apart. One hundred pounds of OC material and 70 gallons of water were injected at each location. The slurry was injected in two intervals below the groundwater table at each location, for a total of 50 pounds of OC material and 35 gallons of water per interval. The deep injection was completed first at each location, at approximately 10 feet below the groundwater table. Groundwater levels were measured on-site in the morning prior to the start of injections and were utilized to determine injection depths across the Site as groundwater levels varied across the area of injections. The deep injection occurred at ~18-20 ft. bgs. The direct push soil probe rod was then brought up approximately five feet, and the shallow injection was completed. Post-injection groundwater sampling events were conducted in August and October 2015, June and October 2016, and in July 2017 to assess the efficacy of the OCEDS injections in promoting continued natural attenuation of cVOCs at the Site. The efficacy of the remedy is being managed and reported under the NYSDEC BCP.

Reductive dechlorination is the biologically- or chemically- mediated replacement of chlorine (as chloride) on a chlorinated organic compound with elemental hydrogen, in the presence of a suitable electron donor. This causes transformation of the chlorinated VOC (cVOC) to a less chlorinated product. An electron donor is a substance capable of supplying electrons during oxidation-reduction reactions. In biological reductive dechlorination, microorganisms obtain energy by transferring electrons from electron donors to electron acceptors. Electron donors are chemically-reduced materials such as the OCEDS. Electron acceptors include oxygen, nitrate, ferric iron, sulfate, and cVOCs. Biological reductive dechlorination of cVOCs typically occurs sequentially from PCE to TCE, TCE to DCE, DCE to VC, VC to ethene, ethene to ethane, and ethane to carbon dioxide and water. Suitability for continued reductive dechlorination can be assessed by measuring groundwater biogeochemical parameters, including dissolved oxygen (DO), oxidation-reduction potential (ORP), reduced iron and manganese, methane, total organic carbon (TOC), nitrate, and sulfate, as well as PCE and TCE degradation products DCE, VC, ethene, ethane, and chloride. In the first few months following injection of an organic carbon additive, groundwater concentrations of PCE and TCE can increase, as their solubility is improved by additive fermentation products. The increased solubility makes the PCE and TCE more available to cVOC-degrading microorganisms, and is typically followed by decreasing PCE and TCE accompanied by an increase in degradation products DCE, VC, ethene, and ethane as bioremediation proceeds.

Groundwater cVOC concentrations measured at 35 months post-OCEDS injection (June 2018) follow trends typical for this stage of enhanced reductive dechlorination. As cVOC concentrations decline, biodegradation typically slows down due to less contact between cVOCs and dechlorination bacteria. Also, as PCE and TCE concentrations approach class GA criteria (*i.e.*, PCE and TCE concentrations become a few micrograms per liter (µg/L)), concentrations of their degradation products DCE and VC are likely to be below laboratory detection limits. Although groundwater biogeochemical conditions at the Site are generally less conducive to reductive dechlorination, DCE is above laboratory detection limits in monitoring wells that still contain measurable PCE and/or TCE concentrations. With the exception of EW-1.25, located downgradient of the OCEDC injection area and containing significant sediment, as described in Section 5.1 of this report, TOC concentrations are lower than they were at 24 months post-OCEDS injection. This is expected, as the OCEDS additive, by design, provides organic

carbon for indigenous bacteria to consume while reducing electron acceptors that compete with cVOCs. Biomass generated by bacterial growth cycles provides a sustainable source of organic carbon, helping to maintain reductive dechlorination at the soil-porewater interface as the injected OCEDS is consumed. In GZA's opinion, groundwater concentrations of cVOCs will continue to decline over time. Monitoring will continue to document the dechlorination process.

2.0 PURPOSE AND SCOPE OF WORK

Groundwater samples were collected from the 12 monitoring wells to assess current conditions and provide an opinion regarding volatile organic compound (VOC) concentrations. The following was completed:

- Coordinated with Pace Analytical located in Melville, New York prior to commencement of field activities to obtain the analytical sample containers.
- Collected groundwater samples from each of the 12 monitoring wells for chemical analysis of VOCs via EPA Method 8260 Target Compound List (TCL).
- Prepared this report, which summarizes the data collected during this sampling event and compares the data to NYSDEC Class GA groundwater standards and historical data.

This report presents GZA's field observations, results, and opinions and is subject to the limitations presented in Appendix A and modifications if subsequent information is developed by GZA or another party.

3.0 FIELD METHODS

This section describes the field activities of GZA's groundwater sampling event.

3.1 GROUND WATER SAMPLING PROCEDURES

Equipment Cleaning

Prior to GZA's arrival on-Site, the sampling equipment (water level indicator, water quality meter and flow-through cell) were cleaned by rinsing with potable water, washing with a solution of laboratory detergent (Alconox®) and potable water, and rinsing with de-ionized water.

New, disposable polyethylene tubing (for placement down into the well and connecting to the water quality meter) and silicone tubing (for the peristaltic pump head) was used for groundwater sampling at each location. A variable speed peristaltic pump was used to purge groundwater from most monitoring wells. Groundwater remained within the polyethylene and silicone tubing and did not come in contact with the pump. Therefore, the tubing and pump did not require decontamination between sample locations.

Equipment Calibration

A water quality meter and organic vapor meter (OVM) were used during groundwater monitoring. Prior to use each day, the calibration of the water quality meter and OVM were checked to verify that the equipment was in working order.

Monitoring & Purging Methodologies

An OVM, equipped with photoionization detector (PID) and a 10.6 eV ultraviolet lamp, was used to screen for volatile organics in air at the top of the well riser immediately following the removal of each monitoring well riser cap. OVM readings were recorded on each respective monitoring well field sampling log. OVM readings were non-detect and no odors were noted at the top of each of the 12 monitoring wells sampled.

The purging and water quality measurements were completed using two different types of pumps depending on the depth to water surface measured at the well location.

Nine of the 12 monitoring wells had water surface depths less than 20 feet below top of well riser, (wells EW-1.25, EW-1.5, EW-2.5, EW-4.5, MW-1I, MW-2I, MW-4S, MW-5S, and MW-9I). These wells were sampled using a Geotech® Geopump II peristaltic pump. Wells IRM-1 and IRM-2I had water surface depths greater than 20 feet below top of well riser and were sampled using a Proactive® Monsoon down-hole centrifugal pump. The below grade portion of the Town Well was not accessible. This well is discussed in the next section.

Prior to initiation of each well purge event, a static water level was measured from the top of the monitoring well riser and recorded on the monitoring well sampling log. At each monitoring well location, (with the exception of Town Well) new polyethylene tubing was lowered into the monitoring well and positioned with the bottom of the tubing at the approximate vertical center of the well screen. Well construction information was taken from the monitoring well logs previously generated by others. Following the sampling efforts, GZA measured and documented the depth of each monitoring well, which were consistent with the information provided on the existing monitoring well logs.

The peristaltic pump/centrifugal pump was started and operated at a flow rate that minimized draw-down of the water column within the well. The first set of water quality readings were collected when the flow-through cell was full and water began to flow out. Once a constant head was established, the pumping flow rate was not altered. Sampling flow rates were kept consistent with purging/monitoring flow rates. Readings were recorded on well development forms in the field, once a constant head had been established. Readings were continuously recorded every five minutes, until water quality readings stabilized for three successive readings, which generally consisted of ± 0.1 for pH, ±3% for conductivity, ± 10 mV for oxidation reduction potential (ORP) and ± 10% for turbidity and dissolved oxygen (DO). Copies of the well purging forms are included in Appendix B.

Groundwater samples were collected for lab analysis once a constant head was established, the water quality readings had stabilized and/or at least one well volume was removed. The polyethylene tubing from the pump to the water quality meter was disconnected and used to fill the appropriate groundwater sample containers provided by the laboratory. Groundwater collected for analysis did not enter the flow-through cell.

After the appropriate sample containers were filled, the pump was shut off and the tubing was removed from the monitoring well and pump-head. The tubing was then disposed as a solid waste. The flow-through cell and water

quality meter were rinsed with de-ionized water prior to use at each well. Water generated during the purging/monitoring and equipment decontamination was placed on the ground in the vicinity of the monitoring well from which it was generated.

Town Well:

The Town Well sample was collected from a spigot within the pump house shed at the well location, as the subsurface portion of this well is not accessible. The spigot was turned on to allow approximately five gallons of water to discharge into a graduated 5-gallon bucket, which was emptied into a floor drain within the shed. The flow-through cell was filled with water directly from the spigot for water quality readings. The sample was collected from the spigot after approximately five gallons were purged and water quality readings were recorded.

3.2 GROUNDWATER DATA COLLECTION

GZA collected groundwater samples from the eight on-site monitoring wells (MW-2I, MW-5S, MW-9I, MW-1I, MW-4S, EW-1.25, EW-1.5, and EW-2.5) and four off-site monitoring wells (EW-4.5, IRM-1, IRM-2I and the Town Well). In addition, a duplicate sample (from MW-5S), and matrix spike/matrix spike duplicate (MS/MSD) sample (from EW-1.5) were collected.

The following table shows the volume of water purged and the number of well volumes removed from the respective wells after a constant head was established. Constant head was not applicable at the Town Well location, as the well was not sampled using low-flow methodologies.

Monitoring Well ID	Volume Purged (gallons)	Well Volumes (#)
EW-1.25	0.4	0.46
EW-1.5	6.3	0.99
EW-2.5	5.3	0.89
EW-4.5	1.6	0.30
MW-1I	2.1	0.40
MW-2I	3.0	0.55
MW-4S	0.4	0.37
MW-5S	0.4	0.32
MW-9I	2.4	0.38
IRM-1	10.8	2.63
IRM-2I	8.0	2.90
Town Well	5.0	NA

Prior to sampling, static groundwater level measurements were recorded from the top of riser at the 11 accessible monitoring wells (see table below). Monitoring well reference point elevation data were available from previous reports completed by others. Depth to groundwater was measured at each well prior to purging. The measured groundwater elevations collected during the June 2018 sampling event are shown on Figure 2. Based on the available information, groundwater flow is generally in a south to southeasterly direction, consistent with previous monitoring events.

Monitoring Well Location	Top of Riser Elevation (ft. AMSL)	Depth to Groundwater (ft.)	Groundwater Elevation (ft. AMSL)
EW-1.25	1531.96	9.4	1522.56
EW-1.5	1533.92	11.06	1522.86
EW-2.5	1533.92	13.5	1520.42
EW-4.5	1535.65	17.29	1518.36
MW-1I	1531.79	10.81	1520.98
MW-2I	1540.87	15.69	1525.18
MW-4S	1535.42	10.38	1525.04
MW-5S	1534.16	9.89	1524.27
MW-9I	1532.30	11.16	1521.14
IRM-1	1534.75	24.84	1509.91
IRM-2I	1535.99	24.89	1511.10

4.0 ANALYTICAL LABORATORY TESTING

Twelve groundwater samples, one duplicate sample (MW-5S), one matrix spike/matrix spike duplicate (EW-1.5), and one trip blank, were submitted for analytical testing. The samples were packed in an ice-filled cooler and, following typical chain-of-custody procedures, sent to Pace Analytical in Melville, New York. Table 1 presents a summary of the samples collected, dates of sample collection, and analyses completed.

5.0 ANALYTICAL TEST RESULTS

Discussion of the laboratory results for the groundwater samples is presented below. The laboratory report is provided in Appendix D and summarized on Table 2. Analytical data that were available from January 1989 to June 2018 (specifically trichloroethene (TCE) and tetrachloroethene (PCE)) are summarized on Table 3. These data are also provided graphically, per well location, in Appendix C.

The analytical test results for the groundwater samples were compared to NYSDEC Class GA standards presented in the Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000.

The analytical data generated as part of the annual monitoring program (the 12 wells) have also been provided to NYSDEC electronically for their Environmental Information Management System (EIMS). The data was provided in a standardized electronic data deliverable (EDD) format that uses the database software application EQuIS™ (EQuIS) from EarthSoft® Inc. The laboratory data and required information were imported into the EQuIS Data Processor (EDP) and submitted to NYSDEC.

5.1 ON SITE WELLS

- EW-1.25: No VOCs were detected above method detection limits. GZA notes that significant sediment had accumulated in this well at the time of sampling, with the top of sediment measured at 14.79 feet below top of riser. The depth to top of sediment was sounded with a weighted tape measure. The sediment was observed to be hard/consolidated. GZA made significant unsuccessful efforts to purge the accumulated sediment from the well with the available on-site equipment (peristaltic pump). EW-1.25 is screened from approximately 15 to 25 feet below top of riser; therefore, groundwater sampled during this event may not be representative of the formation, as the screened interval was buried by accumulated sediment. GZA also notes that cis-DCE (57 µg/L) and TCE (35 µg/L) were detected above their respective Class GA criteria of 5 µg/L when last sampled in July 2017.

  Since the groundwater sampling was reinitiated in 2009, there has been a general downward trend of total VOC concentrations detected at this location. EW-1.25 total VOC mass was similar in June 2016 and July 2017 (86 and 97 µg/L, respectively).

- EW-1.5: No VOCs were detected above method detection limits. Since 2009, there has been a slight general downward trend of total VOC concentrations detected at this location and this is the first time since 2009 that no VOCs were detected in this well.

- EW-2.5: No VOCs were detected above method detection limits. Historically, the VOC results have been either below method detection limits and/or the Class GA criteria since 2002.

- MW-1I: Four VOCs were detected above method detection limits. TCE (15 µg/L) and PCE (11.6[2] µg/L) were detected above their Class GA criteria of 5 µg/L. The remaining detections were below their respective class GA criteria. Since 2009, there has been a downward trend of VOC concentrations detected at this location and the results have generally been at or below the Class GA criteria since 1996, with the exception of a slight increase in VOC concentrations since the OCEDC injections. As PCE/TCE degradation product cis-DCE is still being produced at this location, we anticipate that VOC concentrations will continue to decline in this well over time.

- MW-2I: No VOCs were detected above method detection limits. Historically, the results have been either below method detection limits or the Class GA criteria since 1994.

- MW-4S: No VOCs were detected above method detection limits. Historically, the results have been either below method detection limits and/or the Class GA criteria since 1998.

[2] Continuing calibration for this compound was outside of laboratory acceptance limits. The results may be biased high.

- MW-5S: Two VOCs were detected above method detection limits. PCE (6.1[3] µg/L) was detected above its Class GA criteria of 5 µg/L. The remaining detection (TCE at 4.3 µg/L) was below its class GA criteria. Since 2009, there has been a downward trend of VOC concentrations detected at this location.

  MW-5S is approximately 30 feet southeast and downgradient of AOC-2 and AOC-3 which were addressed as part of IRM activities in 2011 and 2013.

- MW-9I: Two VOCs, (PCE and TCE) were detected above method detection limits but below their respective NYSDEC Class GA criteria. VOCs have been below Class GA criteria and indicating a downward trend since sampling was reinitiated in 2009.

5.2 OFF SITE WELLS

- EW-4.5: TCE was detected above method detection limits but below its respective NYSDEC Class GA criteria of 5.0 µg/L. The VOC concentrations detected this round are consistent with previous samples collected since 2004.

- IRM-1: No VOCs were detected above method detection limits. Historically, TCE and PCE concentrations have been below the Class GA criteria since 1996.

- IRM-2I: No VOCs were detected above method detection limits. TCE and PCE concentrations have been below the Class GA criteria since 1994.

- Town Well: Dibromochloromethane was detected above method detection limits (1.3 µg/L) but below its respective Class GA criteria (50 µg/L). Historically, TCE and PCE concentrations have had downward trends since 1990 and both have been below the Class GA criteria since 1993.

6.0 SUMMARY

A summary of GZAs findings follows:

- Static groundwater level measurements indicate that groundwater flows toward the south/southeast, consistent with previous monitoring events.

- VOCs were detected at concentrations above NYSDEC Class GA criteria in the groundwater samples collected from two on-site wells (MW-1I and MW-5S). VOCs were not detected above NYSDEC Class GA criteria in any of the remaining five on-Site and four off-site wells sampled.

- A general downward trend in VOC concentrations since 2009 is noted in monitoring wells EW-1.5, MW-5S and MW-9I.

[3] Continuing calibration for this compound was outside of laboratory acceptance limits. The results may be biased high.

- No VOCs were detected above method detection limits in well EW-1.25. GZA notes that significant sediment had accumulated in this well at the time of sampling, with the top of sediment measured at 14.79 feet below top of riser. The sediment was observed to be hard/consolidated via sounding. EW-1.25 is screened from approximately 15 to 25 feet; therefore, groundwater sampled during this event may not be representative of the formation, as the screened interval was buried by accumulated sediment.

  The total VOC mass in well EW-1.25 was similar in June 2016 and July 2017 (86 and 97 µg/L, respectively). The October 2016 total VOC mass was higher (111 µg/L); however, in October 2016 EW-1.25 VOCs were predominantly daughter products cis-DCE and VC, with both PCE and TCE concentrations very low (<0.5 µg/L). This dominance of daughter products downgradient of the OCEDS injection area provides evidence for the efficacy of enhanced natural attenuation via reductive dechlorination.

- In general, the concentrations of VOCs at monitoring wells EW-2.5, EW-4.5, MW-2I, MW-4S, and MW-9I have predominantly been below NYSDEC Class GA criteria.

- Off-site monitoring well results for locations IRM-1, IRM-2 and the Town Well, have consistently been non-detect or at concentrations below Class GA criteria since 1994.

Groundwater monitoring has been conducted semi-annually/annually for over 20 years. The body of data collected since remedial injections indicate that reductive dechlorination is continuing to reduce the CVOC concentrations as intended, and that a slow and steady overall trend of CVOC reduction has been established. Two of the 12 wells monitored have CVOCs at concentrations slightly greater than the Class GA groundwater standards. GZA recommends continued annual monitoring.

The next annual groundwater monitoring event is anticipated to occur in June 2019. If results from the 2019 sampling event are consistent with current trends, GZA will recommend petitioning NYSDEC to modify the SMP to cease the concurrent post-injection groundwater sampling schedule. In that scenario, GZA would also recommend reducing the annual sampling to a biennial frequency.

Significant sedimentation has occurred at EW-1.25 that has buried the screened interval. Groundwater collected from this well may not be representative of the formation. GZA notes this well is a key location for evaluating the site remedy, as it is located immediately downgradient of the injection area and has demonstrated effective reductive dechlorination. It is unknown if the significant decrease in mass concentrations at EW-1.25 observed during this June 2018 sampling event is due to the implemented site remedy, or if the accumulated sediment has impacted the functionality of EW-1.25 and hence the representativeness of sample. GZA recommends a round of site-wide well bottom soundings and subsequent re-development of wells containing significant sediment prior to the next scheduled sampling event. The well re-development should be conducted via water-jetting using rigid tremie piping and an appropriate pump to flush the accumulated hard sediment.

TABLES

TABLE 1
June 2018 Analytical Testing Program Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Location	Date Collected	Screened Interval (ft bgs)	VOCs EPA Method 8260-TCL
Groundwater Samples			
EW-1.25	6/21/2018	15-25	X
EW-1.5 (MS/MSD)	6/19/2018	40-50	X
EW-2.5	6/19/2018	40-50	X
EW-4.5	6/19/2018	40-50	X
MW-1I	6/20/2018	30-50	X
MW-2I	6/20/2018	29-49	X
MW-4S	6/20/2018	7-17	X
MW-5S	6/20/2018	7.5-17.5	X
MW-9I	6/20/2018	29.5-49.5	X
IRM-1	6/19/2018	40-50	X
IRM-2I	6/19/2018	40-50	X
TOWN WELL	6/19/2018	40-50	X
GW Duplicate (MW-5S)	6/20/2018	7.5-17.5	X

Notes:
1. ft bgs = feet below ground surface
2. VOCs = Volatile Organic Compounds; TCL = Target Compound List
3. EPA = Environmental Protection Agency
4. MS/MSD = Matrix Spike/Matrix Spike Duplicate

TABLE 2
June 2018 Groundwater Analytical Testing Results Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-1.25																
		4/23/09	10/22/09	6/3/10	4/14/11	10/14/11	5/9/12	10/31/12	6/25/13	10/16/13	6/10/14	10/14/14	6/4/15	10/21/15	6/15/16	10/25/16	7/13/17	6/21/18
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	3.8	2.3 J	<1.5	<1.5	<5.0
2-Butanone	50	<	<	<	<	4.2J	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	<5.0
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	0.77J	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Carbon disulfide	NV	<	<	1.4	<	1.2	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	1.8 J	<1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	9.7	9.1	8.4	6.3	6	3.8	16	4.6	5	2.4	4.7	2.6	3.3	3.2	6.6	<1	<1
1,1-Dichloroethene	5*	<	0.88	0.85	.86J	<	< 1	1.4	< 1	< 1	< 1	0.34 J	0.25 J	0.36 J	0.24 J	0.48 J	0.39 J	<1
1,1-Dichloroethane	5	8.6	8.7	6.0	6.1	6.7	4.8	5.9	4.1	4.1	2.9	3.8	3	4.2	2.9	3.9	3.0	<1
trans-1, 2-Dichloroethene	5	<	0.92	0.66	.91J	.81J	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	0.79 J	<1	<1
cis-1,2-Dichloroethene	5	60	69	39	45	44	32	98	31	32	23	32	29	44	28	98	57	<1
1,1,1-Trichloroethane	5	1.5	0.82	0.65	.78J	.64J	< 1	2	< 1	< 1	< 1	0.80 J	<1	<1	<1	0.70 J	<1	<1
Trichloroethene	5	88	90	73	56	90	59	1.7	51	59	41	54	47	58	47	0.27 J	35	<1
Tetrachloroethene	5	7.5	5.6	5.6	4.2	8.3	5.9	< 1	3.3	3.8	3.6	5.0	3.1	1.8	3.1	<1	0.73	<1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1
Total VOCs		175.3	185.0	135.6	120.15	161.85	105.50	125.00	94.77	103.90	72.90	100.64	84.95	115.46	86.74	110.74	97.92	

Parameter	Class GA Criteria	MW-4S																
		4/23/09	10/22/09	6/2/10	4/14/11	10/13/11	5/10/12	10/31/12	6/25/13	10/15/13	6/6/14	10/15/14	6/3/15	10/21/15	6/15/16	10/25/16	7/12/17	6/20/18
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	2.3 J	<	<	<	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	< 5
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Carbon Disulfide	NV	<	<	1.3	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	< 1
Trichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	< 1
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	0.36 J	0.22 J	0.32 J	0.18 J	<1	<1	< 1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs				1.3								0.36	0.22	2.62	0.18			

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Pace Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb). CH = lab quali
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for MW-5S for the June 2018 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high.
L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 2
June 2018 Groundwater Analytical Testing Results Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-1.5																
		4/23/09	10/22/09	6/2/10	4/14/11	10/14/11	5/9/12	10/31/12	6/25/13	10/16/13	6/9/14	10/14/14	6/2/15	10/21/15	6/14/16	10/25/16	7/11/17	6/19/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	1.5 J	< 1.5	< 1.5	< 1.5	<5.0
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	<5.0
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Carbon disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
cis-1,2-Dichloroethene	5	2.1	4.6	2.2	3.3	1.7	2.1	2.9	1.3	< 1	1.6	2.7	2.0 J	2.1 J	1.6 J	1.2 J	1.3 J	<1
1,1,1-Trichloroethane	5	4.1	2.7	1.9	2.6	1.3	1.7	< 1	1.2	< 1	< 1	1.4 J	1.2 J	1.2 J	<1	0.90 J	1.2 J	<1
Trichloroethene	5	18	20	14	19	9.5	13.0	9.0	8.4	3.9	10	13	13	11	6.4	10	10	<1
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	0.22 J	0.20 J	0.22 J	<1	0.24 J	0.23 J	<1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1
Total VOCs		24.2	27.3	18.1	24.9	12.5	16.8	11.9	10.9	3.9	11.6	17.32	16.30	16.02	8.00	12.34	12.73	

Parameter	Class GA Criteria	MW-5S																
		4/23/09	10/22/09	6/3/10	4/14/11	10/13/11	5/9/12	10/31/12	6/25/13	10/15/13	6/6/14	10/14/14	6/2/15	10/22/15	6/15/16	10/24/16	7/12/17	6/20/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	4 J	3.4 J	<1.5	<	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	<2	< 5
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	0.99J	< 1	< 1	< 1	< 1	< 1	1.2 J	<1	<1	< 1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
cis-1,2-Dichloroethene	5	<	<	<	.72J	<	0.9J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1
1,1,1-Trichloroethane	5	3.4	3.1	1.7	.61J	2.9	0.59J	< 1	0.52J	2.0	< 1	0.94 J	<1	<1	<1	<1	<1	< 1
Trichloroethene	5	30.0	22.0	14.0	12.0	15.0	17.0	3.1	6.9	8.1	2.7	4.0	0.75	1.60	2.70	0.72	<1	4.3
Tetrachloroethene	5	5.6	3.3	2.2	13.0	4.4	9.5	2.6	3.5	3.9	4.6	3.7	3.8	5.8	4.9	3.8	<1	6.1 CH
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs		39.0	28.4	17.9	26.3	22.3	27.7	5.7	11.9	14.0	7.3	8.64	4.55	11.40	12.20	4.52		10.40

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Pace Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb). CH = lab quali
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for MW-5S for the June 2018 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 2
June 2018 Groundwater Analytical Testing Results Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-2.5																
		4/23/09	10/22/09	6/2/10	4/13/11	10/13/11	5/9/12	11/1/12	6/26/13	10/17/13	6/9/14	10/15/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	2.4 J	1.7 J	<1.5	<1.5	<5.0
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	<5.0
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Carbon disulfide	NV	<	<	<	0.94 J	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Trichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	10	<	<	<	1.3	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1
Total VOCs					2.2				1.4					2.4	1.7			

Parameter	Class GA Criteria	MW-9I																
		4/23/09	10/22/09	6/2/10	4/14/11	10/13/11	5/9/12	11/1/12	6/25/13	10/15/13	6/9/14	10/15/14	6/3/15	10/22/15	6/14/16	10/24/16	7/11/17	6/20/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	2.7 J	1.6 J	<1.5	<1.5	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	5	2.2	1.6	0.9	1.4	1.4	0.89J	1.3	0.84J	< 1	< 1	0.85 J	0.72 J	0.73 J	<1	<1	<1	< 1
Trichloroethene	5	4.6	4.5	2.9	3.6	3.7	2.7	3.1	2.4	3.4	2.3	3.0	2.7	3.0	1.5	2.4	2.4	3.2
Tetrachloroethene	5	1.0	0.86	0.6	1.0	0.8	< 1	< 1	< 1	< 1	0.99J	0.82	0.72	0.96	0.34 J	0.71	0.73	1.1 CH
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs		7.8	7.0	4.4	6.0	5.9	3.6	4.4	3.2	3.4	3.29	4.67	4.27	7.39	3.44	3.11	3.13	4.30

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Pace Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb). CH = lab quali
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for MW-5S for the June 2018 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high.
L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 2
June 2018 Groundwater Analytical Testing Results Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-4.5																
		4/23/09	10/22/09	6/3/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/9/14	10/14/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<	4.1 J	<1.5	<1.5	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	NV	<	<	<	.63J	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	0.83J	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	5	<	0.72	<	1.2	.51J	0.61J	< 1	0.76J	< 1	< 1	< 1	< 1	< 1	< 1	0.81 J	<1	<1
1,1,1-Trichloroethane	5	2.5	1.3	0.97	1.9	1.3	1.2	1.2	1.1	< 1	< 1	0.76 J	0.77 J	<1	<1	<1	<1	<1
Trichloroethene	5	8.0	7.9	5.5	10	6.9	7.6	7.0	6.8	5.8	5.0	5.4	5.4	3.9	4.6	4.6	1.6	1.1
Tetrachloroethene	5	2.0	1.7	1.1	2.5	1.5	1.5	1.6	1.6	1.4	1.7	1.5	1.7	1.2	1.3	1.6	0.76	< 1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs		12.5	11.6	7.6	16.2	10.2	10.9	9.8	13.6	7.2	6.7	7.66	7.86	5.10	10.00	7.01	2.36	1.10

Parameter	Class GA Criteria	IRM-1																
		4/23/09	10/22/09	6/3/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/6/14	10/14/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<	3.0 J	<1.5	<1.5	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	0.66J	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	5	<	<	<	0.54J	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	<	<	<	0.69J	.52J	< 1	< 1	0.52J	< 1	< 1	0.34 J	0.35 J	0.38 J	0.32 J	0.36 J	0.33 J	< 1
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.25 J	<1	0.23 J	0.19 J	< 1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs					1.23	0.52			2.58			0.34	0.35	0.63	3.32	0.59	0.52	

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Pace Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb). CH = lab quali
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for MW-5S for the June 2018 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high.
L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 2
June 2018 Groundwater Analytical Testing Results Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	MW-1I																
		4/23/09	10/22/09	6/2/10	4/14/11	10/14/11	5/9/12	10/5/12	6/25/13	10/15/13	6/9/14	10/15/14	6/2/15	10/22/15	6/14/16	10/25/16	7/11/17	6/20/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<.1.5	<.1.5	<.1.5	1.9 J	<5.0
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	<5.0
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Chloromethane	NV	<	<	0.62	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Carbon disulfide	NV	<	<	<	<	1.1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.53 J	<1	<1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
1,1-Dichloroethane	5	4.7	4.7	3.5	3.4	3.8	2.8	2.6	2.0	2.1	1.6	2.3 J	1.9 J	2.5	1.7 J	1.2 J	<1	1.1 L2
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
cis-1,2-Dichloroethene	5	4.2	5.7	2.2	2.5	2.2	1.2	3.1	2.9	1.8	< 1	1.8 J	0.87 J	0.80 J	1.6 J	7.1	<1	3.3
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Trichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	2.8	2	<1	3	11	<1	15
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	2.4	1.3	<1	1.9	7.1	<1	11.6 CH
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1
Total VOCs		8.9	10.4	6.3	5.9	7.1	4.0	5.7	4.9	3.9	1.6	9.0	6.1	3.3	8.2	26.9	1.9	31.0

Parameter	Class GA Criteria	IRM-2I																
		4/23/09	10/22/09	6/3/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/6/14	10/14/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<1.5	2.9 J	<1.5	<1.5	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	NV	<	<	0.56	<	<	< 1	< 1	0.59J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	<	0.89	0.85	.88J	.86J	0.74J	0.60J	0.72J	< 1	< 1	0.60	0.60	0.63	0.59	0.59	0.58	< 1
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	0.20 J	<1	0.28 J	<1	0.26 J	0.20 J	< 1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs			0.9	1.4	0.88	0.86	0.74	0.60	1.30			0.80	0.60	0.91	3.49	0.85	0.78	

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Pace Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb). CH = lab quali
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for MW-5S for the June 2018 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high.
L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 2
June 2018 Groundwater Analytical Testing Results Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	MW-2I															
		4/23/09	10/22/09	6/3/10	4/13/11	10/13/11	5/9/12	10/31/12	6/25/13	10/15/13	6/6/14	10/14/14	6/3/15	10/22/15	6/15/16	10/24/16	7/11/17	6/20/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<1.5	<1.5	<1.5	<1.5	<5.0
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	<5.0
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Carbon disulfide	NV	<	<	12.0	0.90J	1.3	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<	<	<	<	<	0.83J	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1
Total VOCs				12.0	0.9	1.3	0.83											

Parameter	Class GA Criteria	TOWN WELL																
		4/23/09	10/22/09	6/2/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/9/14	10/14/14	6/2/15	10/22/15	6/14/16	10/24/16	7/12/17	6/19/18
Volatile Organic Compounds - EPA Method 826																		
Methylene chloride	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<1.5	2.4 J	<1.5	<1.5	< 5
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	< 5
Bromodichloromethane	5	<	<	<	.53J	1.4	0.67J	0.96J	< 1	< 1	< 1	< 1	0.52	0.27 J	0.45 J	0.53	<1	< 1
Dibromochloromethane	50	<	<	<	1.2	1.7	1.2	< 1	< 1	< 1	< 1	< 1	0.99	0.54	3	0.97	<1	1.3
Chloromethane	NV	<	NT	0.56	<	<	< 1	< 1	1.3	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Chloroform	7	<	NT	0.62	<	1.1	< 1	0.82J	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Bromoform	50	<	NT	0.51	1.7	1.4	0.88J	1.6	< 1	< 1	< 1	< 1	1.2 J	<1	1.3 J	1.3 J	<1	< 1
Carbon Disulfide	NV	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	2	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
1,1-Dichloroethene	5*	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
1,1-Dichloroethane	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
trans-1, 2-Dichloroethene	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
cis-1,2-Dichloroethene	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
1,1,1-Trichloroethane	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1
Trichloroethene	5	<	NT	<	0.69J	0.55J	< 1	0.58J	0.63J	< 1	< 1	0.45 J	0.48 J	0.44 J	0.45 J	0.50	0.37	< 1
Tetrachloroethene	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	0.24 J	<1	0.23 J	<1	< 1
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1
Total VOCs				1.69	4.12	6.15	2.75	3.96	1.93			0.45	3.19	1.49	7.60	3.53	0.37	1.30

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Pace Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb). CH = lab quali
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for MW-5S for the June 2018 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high.
L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 3
Historical Analytical Data Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Well I.D.	Analyte	Sample Date 6/20/2018	Sample Date 7/11/2017	Sample Date 10/25/2016	Sample Date 6/15/2016	Sample Date 10/21/2015	Sample Date 6/2/2015	Sample Date 10/14/2014	Sample Date 6/6/2014	Sample Date 10/15/2013	Sample Date 6/25/2013	Sample Date 10/31/2012	Sample Date 5/10/2012	Sample Date 10/13/2011	Sample Date 4/13/2011
EW-1.25	PCE	<	0.7	<	3.1	1.8	3.1	5	3.6	3.8	3.3	2	<	0.64J	0.78J
	TCE	<	35	0.27 J	47	58	47	54	41	59	51	1.7	59	90	56
EW-1.5	PCE	<	0.23 J	0.24 J	<	0.22 J	0.2 J	0.22 J	<	<	<	<	1.7	1.3	2.6
	TCE	<	10	10	6.4	11	13	13	10	3.9	8.4	9	13	9.5	19
EW-2.5	PCE	<	<	<	<	<	<	<	<	<	<	<	<	0	0
	TCE	<	<	<	<	<	<	<	<	<	<	<	<	0	0
EW-3.5	PCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	TCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
EW-4.5	PCE	<	0.8 J	1.6	1.3	1.2	1.7	1.5	1.7	1.4	1.6	1.2	1.2	1.3	1.9
	TCE	1.1	1.6	4.6	4.6	3.9	5.4	5.4	5	5.8	6.8	7	7.6	6.9	10
MW-1I	PCE	11.6	<	7.1	1.9	<	1.3	2.4	<	<	<	<	<	<	<
	TCE	15	<	11	3	<	2	2.8	<	<	<	<	<	<	<
MW-2I	PCE	<	<	<	<	<	<	<	<	<	<	<	<	<	<
	TCE	<	<	<	<	<	<	<	<	<	<	<	0.83J	<	<
MW-9I	PCE	1.1	0.73	0.71	0.34J	1	0.72	0.82	0.99	<	<	1.3	0.89J	1.4	1.4
	TCE	3.2	2.4	2.4	1.5	3	2.7	3	2.3	3.4	2.4	3.1	2.7	3.7	3.6
MW-4S	PCE	<	<	<	0.18J	0.32	0.22 J	0.36 J	<	<	<	<	<	<	<
	TCE	<	<	<	<	<	<	<	<	<	<	<	<	<	<
MW-5S	PCE	6.1	<	0.38	4.9	5.8	3.8	3.7	4.6	3.9	3.5	2.6	0.59J	2.9	.61J
	TCE	4.3	<	0.72	2.7	1.6	0.75	4	2.7	8.1	6.9	3.1	17	15	12
IRM-1	PCE	<	0.19 J	0.23 J	<	0.25 J	<	<	<	<	<	<	<	<	.54J
	TCE	<	0.33 J	0.36 J	0.32J	0.38 J	0.35 J	0.34 J	<	<	0.52J	<	<	.52J	.69J
IRM-2I	PCE	<	0.20 J	0.26 J	<	0.28 J	<	0.2 J	<	<	<	<	<	<	<
	TCE	<	0.58	0.59	0.59	0.63	0.6	0.6	<	<	0.72J	0.60J	0.74J	.86J	.88J
MAIN SCHOOL WELL	PCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	TCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TOWN WELL	PCE	<	<	0.23 J	<	0.24 J	<	<	<	<	<	<	<	<	<
	TCE	<	0.37	0.5	0.45J	0.44 J	0.48 J	0.45 J	<	<	0.63J	0.58J	<	.55J	.69J

Notes:
1. NT = Not Tested.
2. < = not detected above method detection limits.
3. Values shown are in ug/L (part per billion (ppb)).
4. Shading indicates exceedance of its respective Class GA Criteria (5 ppb) for both PCE and TCE).
* - Historical data provided date of 10/21/2004 - However, based on historical sampling trend, sample was likely from April 2005 (sample date unknown).

TABLE 3
Historical Analytical Data Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Well I.D.	Analyte	Sample Date 6/2/2010	Sample Date 10/22/2009	Sample Date 4/23/2009	Sample Date 10/2/2007	Sample Date 10/30/2006	Sample Date 4/25/2006	Sample Date 11/14/2005	Sample Date 4/1/2005*	Sample Date 10/21/2004	Sample Date 4/29/2004	Sample Date 10/16/2003	Sample Date 4/11/2003	Sample Date 10/23/2002	Sample Date 4/12/2002
EW-1.25	PCE	0.65	0.82	1.5	<	1.5	<	1.6	2	2	6.3	3	11	4	3
	TCE	73	90	88	5.1	45.1	66	27.9	66.9	31	53	22	110	40	30
EW-1.5	PCE	1.9	2.7	4.1	NT	3.1	3	2.9	5	6	<	5	<	4	2
	TCE	14	20	18	NT	16.7	18	15.6	25.3	28	1	20	<	13	6
EW-2.5	PCE	0	0	0	NT	<	<	<	<	<	<	<	<	<	<
	TCE	0	0	0	NT	<	<	<	<	<	<	<	<	<	<
EW-3.5	PCE	NT	NT	NT	NT	<	5	<	1.2	<	6	<	2	<	4
	TCE	NT	NT	NT	NT	<	NT	<	NT	<	NT	0.8	NT	1	NT
EW-4.5	PCE	0.97	1.3	2.5	NT	1.5	NT	1.2	NT	2	NT	2	NT	<	NT
	TCE	5.5	7.9	8	NT	5.9	NT	4.6	NT	5	NT	3	NT	<	NT
MW-1I	PCE	<	<	<	<	<	<	<	<	<	5.1	<	<	<	<
	TCE	<	<	<	<	<	<	<	<	<	NT	0.6	NT	<	<
MW-2I	PCE	<	<	<	NT	<	NT	<	NT	<	NT	<	NT	<	NT
	TCE	<	<	<	NT	<	NT	<	NT	<	28	1	<	1	NT
MW-9I	PCE	0.9	1.6	2.2	1.1	1.4	NT	1.5	NT	2	NT	3	NT	2	NT
	TCE	2.9	4.5	4.6	3.8	3.5	NT	3.3	NT	3	NT	5	NT	3	NT
MW-4S	PCE	<	<	<	<	<	NT	<	NT	<	NT	<	NT	<	NT
	TCE	<	<	<	<	<	NT	<	NT	<	NT	<	NT	<	NT
MW-5S	PCE	1.7	3.1	3.4	4.8	2.3	NT	4.1	NT	10	NT	10	NT	10	NT
	TCE	14	22	30	19	30.5	NT	1	NT	26	NT	29	NT	26	NT
IRM-1	PCE	<	<	<	NT	<	NT	<	NT	0.5	NT	<	NT	<	NT
	TCE	<	<	<	NT	<	NT	<	NT	0.7	NT	0.7	NT	1	NT
IRM-2I	PCE	<	<	<	NT	<	<	<	<	0.5	<	<	<	NT	<
	TCE	0.85	0.89	<	NT	1.2	<	0.71	1	1	<	<	<	NT	2
MAIN SCHOOL WELL	PCE	NT	NT	NT	NT	<	NT	<	NT	<	NT	<	NT	<	NT
	TCE	NT	NT	NT	NT	<	NT	<	NT	<	NT	<	NT	<	NT
TOWN WELL	PCE	<	NT	<	NT	<	<	<	<	<	<	<	<	<	<
	TCE	<	NT	<	NT	0.52	<	0.62	0.8	0.9	0.9	1	<	1	1

Notes:
1. NT = Not Tested.
2. < = not detected above method detection limits.
3. Values shown are in ug/L (part per billion (ppb)).
4. Shading indicates exceedance of its respective Class GA Criteria (5 ppb) for both PCE and TCE).
* - Historical data provided date of 10/21/2004 - However, based on historical sampling trend, sample was likely from April 2005 (sample date unknown).

TABLE 3
Historical Analytical Data Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Well I.D.	Analyte	Sample Date 11/9/2001	Sample Date 4/27/2001	Sample Date 10/25/2000	Sample Date 5/30/2000	Sample Date 10/15/1999	Sample Date 4/27/1999	Sample Date 11/5/1998	Sample Date 4/16/1998	Sample Date 10/30/1997	Sample Date 4/8/1997	Sample Date 10/17/1996	Sample Date 4/16/1996	Sample Date 2/8/1996	Sample Date 10/13/1994
EW-1.25	PCE	4	3	3	2	32	ND	8	6	5	5	14	39	26	23
	TCE	11	39	35	31	25	55	63	66	120	78	78	86	83	100
EW-1.5	PCE	<	3	3	2	3	2	1	4	2	3	7	9	10	16
	TCE	<	8	7	4	6	6	6	8	8	10	10	10	9	10
EW-2.5	PCE	<	<	<	<	<	<	<	NT	<	<	<	<	<	<
	TCE	6	<	<	<	<	<	<	NT	<	<	<	2	<	<
EW-3.5	PCE	<	8	<	2	<	2	<	3	<	4	<	NT	<	<
	TCE	2	NT	2	NT	2	NT	1	NT	2	NT	1	NT	4	1
EW-4.5	PCE	<	NT	<	NT	<	NT	<	NT	<	NT	<	NT	<	<
	TCE	<	NT	<	NT	<	NT	<	NT	<	NT	1	NT	2	2
MW-1I	PCE	<	<	<	<	<	NT	<	NT	<	<	<	<	1	<
	TCE	<	<	<	<	<	NT	<	1	<	3	4	2	12	17
MW-2I	PCE	<	NT	NT	NT	<	NT	<	NT	<	NT	<	NT	<	2
	TCE	<	NT	<	NT	<	NT	<	NT	<	NT	<	NT	<	NT
MW-9I	PCE	<	NT	2	NT	<	NT	<	NT	NT	NT	NT	NT	4	3
	TCE	2	NT	3	NT	<	NT	2	NT	3	NT	2	NT	5	6
MW-4S	PCE	<	NT	<	NT	<	NT	<	NT	25	NT	30	NT	2	<
	TCE	<	NT	1	NT	<	NT	<	NT	<	NT	71	NT	2	2
MW-5S	PCE	8	NT	12	NT	12	NT	19	NT	<	NT	<	NT	50	NT
	TCE	21	NT	30	NT	18	NT	36	NT	80	NT	3	NT	63	NT
IRM-1	PCE	<	NT	<	NT	<	<	<	NT	<	NT	<	NT	4	1
	TCE	NT	NT	1	NT	<	<	<	NT	2	NT	2	NT	5	4
IRM-2I	PCE	NT	<	<	<	<	<	<	NT	<	<	<	2	2	2
	TCE	<	2	2	1	<	<	<	2	2	3	2	4	4	4
MAIN SCHOOL WELL	PCE	NT	NT	NT	NT	<	NT	<	NT	<	NT	<	<	1	<
	TCE	NT	NT	NT	NT	<	NT	<	NT	<	NT	<	1	2	1
TOWN WELL	PCE	<	<	<	<	<	<	<	NT	<	<	<	1	2	1
	TCE	<	2	2	1	<	<	<	2	2	3	1	3	4	4

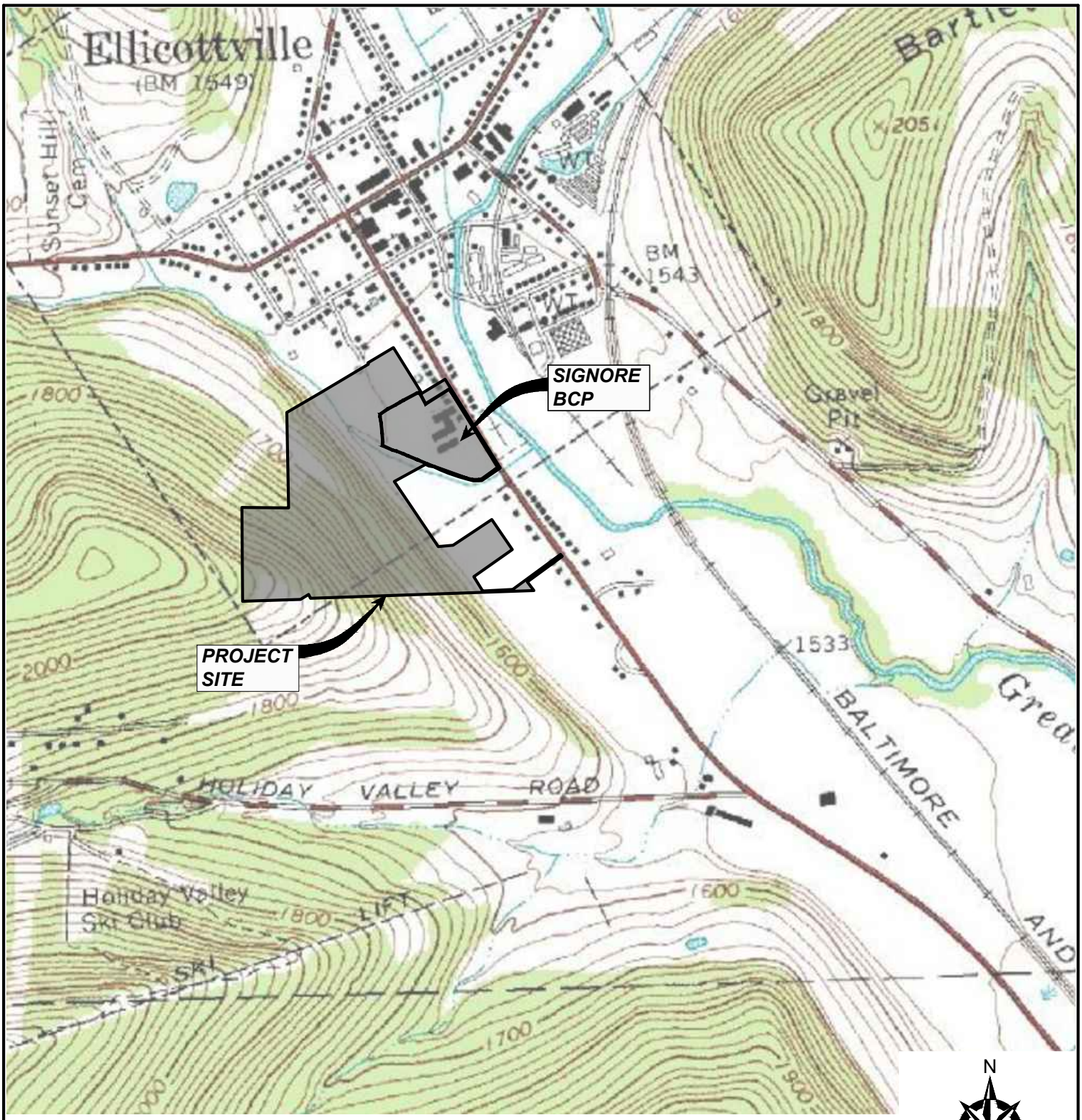
Notes:
1. NT = Not Tested.
2. < = not detected above method detection limits.
3. Values shown are in ug/L (part per billion (ppb)).
4. Shading indicates exceedance of its respective Class GA Criteria (5 ppb) for both PCE and TCE).
* - Historical data provided date of 10/21/2004 - However, based on historical sampling trend, sample was likely from April 2005 (sample date unknown).

TABLE 3
Historical Analytical Data Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Well I.D.	Analyte	Sample Date 7/11/1994	Sample Date 4/26/1994	Sample Date 2/14/1994	Sample Date 11/1/1993	Sample Date 7/13/1993	Sample Date 4/26/1993	Sample Date 1/26/1993	Sample Date 12/21/1992	Sample Date 1/7/1992	Sample Date 6/11/1991	Sample Date 6/28/1990	Sample Date 12/5/1990	Sample Date 6/25/1990	Sample Date 1/15/1989
EW-1.25	PCE	NT	NT	NT	7	NT	NT	NT	140	NT	NT	NT	NT	NT	NT
	TCE	NT	NT	NT	6	NT	NT	NT	67	NT	NT	NT	NT	NT	NT
EW-1.5	PCE	<	3	2	<	<	9	<	14	NT	NT	NT	NT	NT	NT
	TCE	1	2	2	<	<	7	<	7	NT	NT	NT	NT	NT	NT
EW-2.5	PCE	NT	NT	NT	<	NT	NT	NT	<	NT	NT	NT	NT	NT	NT
	TCE	NT	NT	NT	<	NT	NT	NT	2	NT	NT	NT	NT	NT	NT
EW-3.5	PCE	NT	NT	NT	<	NT	NT	NT	<	NT	NT	NT	NT	NT	NT
	TCE	NT	NT	NT	<	NT	NT	NT	<	NT	NT	NT	NT	NT	NT
EW-4.5	PCE	<	<	<	<	<	<	2	4	NT	NT	NT	NT	NT	NT
	TCE	<	<	<	2	<	2	<	8	NT	NT	NT	NT	NT	NT
MW-1I	PCE	<	<	<	<	<	1	1	2	NT	NT	6	NT	NT	19
	TCE	2	5	5	1	6	36	54	66	NT	NT	55	NT	NT	110
MW-2I	PCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	TCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-9I	PCE	NT	2	NT	3	NT	<	NT	<	NT	NT	10	NT	NT	<
	TCE	NT	4	NT	7	NT	3	NT	<	NT	NT	28	NT	NT	20
MW-4S	PCE	NT	NT	NT	2	NT	NT	NT	2	NT	NT	10	NT	NT	15
	TCE	NT	NT	NT	4	NT	NT	NT	1	NT	NT	27	NT	NT	53
MW-5S	PCE	NT	NT	NT	<	NT	NT	NT	<	NT	NT	99	NT	NT	<
	TCE	NT	NT	NT	6	NT	NT	NT	74	NT	NT	100	NT	NT	150
IRM-1	PCE	4	2	3	5	4	3	4	5	NT	NT	4	NT	NT	NT
	TCE	5	4	5	6	5	5	6	5	NT	NT	6	NT	NT	NT
IRM-2I	PCE	2	2	2	3	2	2	3	3	NT	NT	5	NT	NT	NT
	TCE	5	4	5	6	4	4	5	4	NT	NT	9	NT	NT	NT
MAIN SCHOOL WELL	PCE	NT	<	NT	<	NT	<	NT	0.6	1	0.8	NT	<	<	NT
	TCE	NT	1.5	NT	2	NT	1	NT	1.9	3	1.7	NT	2.2	2	NT
TOWN WELL	PCE	NT	2	NT	1	2	NT	NT	3.5	4	5	NT	5	NT	NT
	TCE	NT	4.6	NT	5	4	NT	NT	6.1	7	6.3	NT	8	NT	NT

Notes:
1. NT = Not Tested.
2. < = not detected above method detection limits.
3. Values shown are in ug/L (part per billion (ppb)).
4. Shading indicates exceedance of its respective Class GA Criteria (5 ppb) for both PCE and TCE).
* - Historical data provided date of 10/21/2004 - However, based on historical sampling trend, sample was likely from April 2005 (sample date unknown).

FIGURES



NEW YORK

NOTE:
BASE MAP ADAPTED FROM U.S.G.S. TOPOGRAPHIC MAPS DOWNLOADED FROM http://msrmaps.com

0 500 1000 2000
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
ISKALO ELLICOTTVILLE HOLDINGS, LLC

FORMER SIGNORE FACILITY
55 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

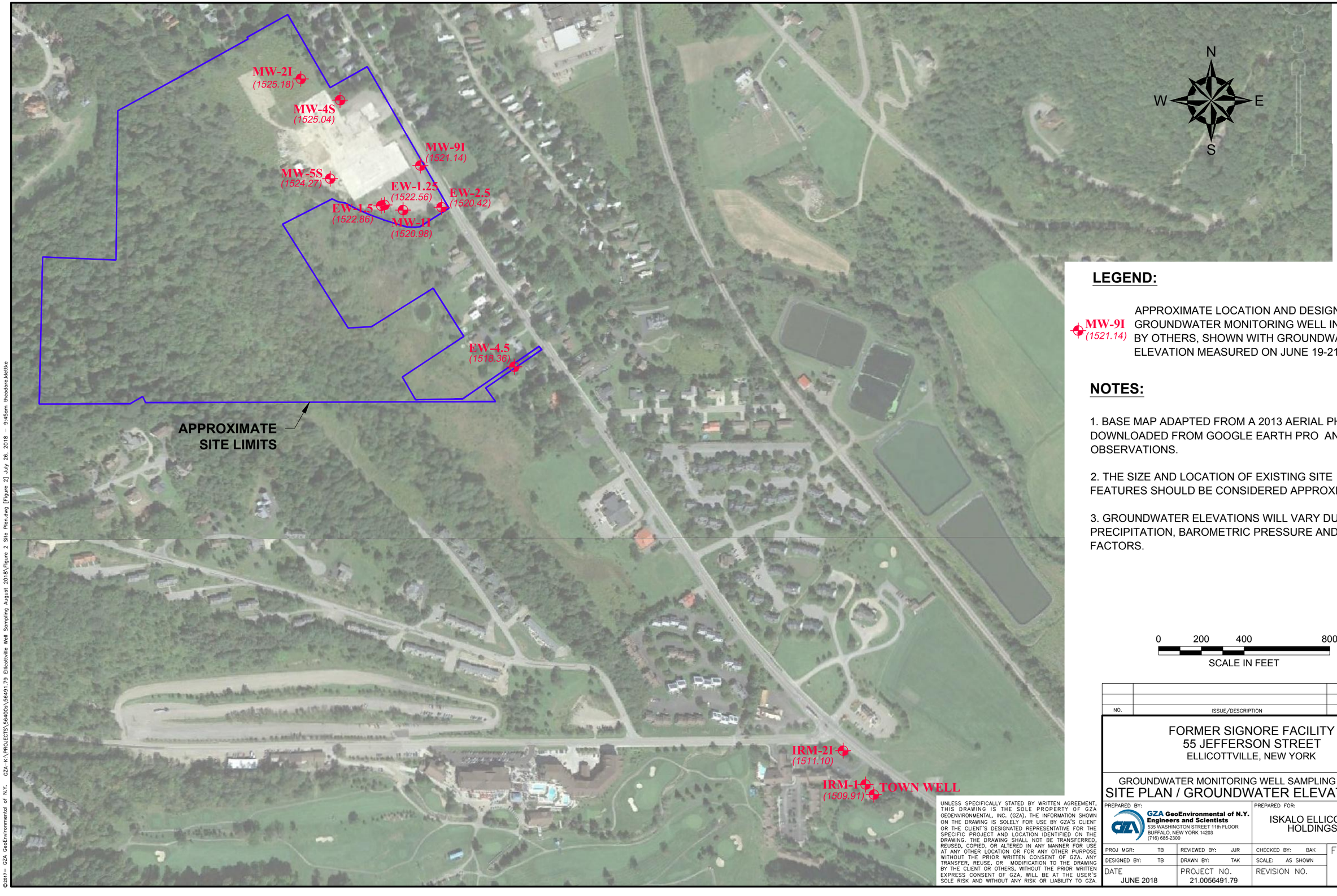
GROUNDWATER MONITORING WELL SAMPLING JUNE 2018

LOCUS PLAN

FIGURE
1

PROJ MGR:	TB	REVIEWED BY:	JJR	CHECKED BY:	BAK	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:	TB	DRAWN BY:	TAK	SCALE:	AS SHOWN	AUGUST 2018	21.0056491.79	

©2017 – GZA GeoEnvironmental of N.Y. GZA–K:\PROJECTS\56400s\56491.79 Ellicottville Well Sampling August 2018\Figure 1 Locus Plan.dwg [Figure 1] July 26, 2018 – 9:37am theodore.klettke



LEGEND:

MW-9I (1521.14) — APPROXIMATE LOCATION AND DESIGNATION OF GROUNDWATER MONITORING WELL INSTALLED BY OTHERS, SHOWN WITH GROUNDWATER ELEVATION MEASURED ON JUNE 19-21, 2018.

NOTES:

1. BASE MAP ADAPTED FROM A 2013 AERIAL PHOTO DOWNLOADED FROM GOOGLE EARTH PRO AND FIELD OBSERVATIONS.

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

3. GROUNDWATER ELEVATIONS WILL VARY DUE TO PRECIPITATION, BAROMETRIC PRESSURE AND OTHER FACTORS.

0 200 400 800

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
55 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK

GROUNDWATER MONITORING WELL SAMPLING JUNE 2018
SITE PLAN / GROUNDWATER ELEVATION MAP

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
ISKALO ELLICOTTVILLE HOLDINGS, LLC

PROJ MGR: TB	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 2
DESIGNED BY: TB	DRAWN BY: TAK	SCALE: AS SHOWN	
DATE: JUNE 2018	PROJECT NO. 21.0056491.79	REVISION NO.	

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

©2017 – GZA GeoEnvironmental of N.Y. G:\ZA–K:\PROJECTS\56400s\56491.79 Ellicottville Well Sampling August 2018\Figure 2 Site Plan.dwg [Figure 2] July 26, 2018 – 9:45am theodore.kletke

APPENDIX 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.

APPENDIX B WELL DEVELOPMENT FORMS

File: 21.0056491.79

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 :	**MW-1 I**	Ground Surface Elevation:		Riser/Screen Material:	PVC
Installation Date:	2/87	Protective Casing Elevation:	1531.93 ft.	Top of Screen Depth:	30 ft.
Installed By:	Rochester Drilling Co.	Monitoring Point Elevation:	1531.79 ft.	Bottom of Screen Depth:	50 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
9.79	6.87	0.14	16.7	10.36	Clear

Notes:

Field Observations

Exterior Observations: TOC separated from rest of riser

Interior Observations

Signs of Damage/Tampering:

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: MW-1 I
Conductivity	+/- 3%	Sample Time: 945
Temperature	+/- 10%	# of Sample Containers: 2
Turbidity	+/- 10%	Duplicate Sample ID: NA
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	

Locked (yes/no) [yes circled] | Well Cap (yes/no) [yes circled] | Surface Seal Intact (yes/no) [no circled] | 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
6/20/18	852	10.96	0	7.29	0.456	11.3	446.1	Brown	2.16	-101.0	Depth of Water: 10.81
	905		0.4	6.40	0.516	11.2	52.8		2.24	-59.2	Length of Water Column:
	915		1.0	6.51	0.531	11.1	54.1		0.65	-91.2	Depth of Well: 42.68
	925		1.3	6.66	0.549	11.1	52.7		0.60	-101.1	Sheen Observed: Y N [N circled]
	928		1.5	6.53	0.559	11.1	10.7	Clear	1.34	-70.6	DNAPL Observed: Y N [N circled]
	932		1.8	6.56	0.565	11.1	10.8		0.68	-85.1	Did Well Go Dry: Y N [N circled]
	937		2.1	6.56	0.562	11.1	10.7		0.66	-86.2	Other: * emptied flow
											through cell

File: 21.0056491.79

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 :	**MW-2 I**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	2/87	Protective Casing Elevation: 1540.97 ft.	Top of Screen Depth: 29 ft.
Installed By:	Rochester Drilling Co.	Monitoring Point Elevation: 1540.87 ft.	Bottom of Screen Depth: 49 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
14.61	7.44	0.593	12	1.91	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations:	pH +/- 0.1	Sample ID: MW-2 I
	Conductivity +/- 3%	Sample Time: 1325
Interior Observations	Temperature +/- 10%	# of Sample Containers: 3
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO +/- 10%	

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

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
6/20/18	1252	15.71	0	6.65	0.579	9.8	1.4	clear	6.43	162.4	Depth of Water: 15.69
	1257		0.5	6.45	0.578	9.7	27.4	↓	6.37	164.4	Length of Water Column:
	1302		1.0	6.48	0.565	10.0	49.0		5.02	153.4	Depth of Well:
	1307		1.5	6.82	0.572	10.0	38.1		4.92	137.7	Sheen Observed: Y (N)
	1312		2.0	7.01	0.573	10.0	21.5		4.66	130.8	DNAPL Observed: Y (N)
	1317		2.5	7.03	0.573	10.0	31.2		4.58	127.9	Did Well Go Dry: Y (N)
	1322		3.0	7.05	0.573	10.0	30.8	↓	4.58	127.3	Other:

File: 21.0056491.79

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 :	**MW-4 S**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:	11/86	Protective Casing Elevation: 1535.47 ft.	Top of Screen Depth: 7 ft.
Installed By:	Rochester Drilling Co.	Monitoring Point Elevation: 1535.42 ft.	Bottom of Screen Depth: 17 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
7.91	6.1	0.28	16.7	1.36	Clear

Notes:

Field Observations	Parameters +/-		Sampling Information
Exterior Observations:	pH	+/- 0.1	Sample ID: MW-4S
	Conductivity	+/- 3%	Sample Time: 1235
Interior Observations	Temperature	+/- 10%	# of Sample Containers: 2
	Turbidity	+/- 10%	Duplicate Sample ID: NA
	ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO	+/- 10%	

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

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
6/20/13	1213	10.62	0	7.20	0.300	12.4	3.7	Clear	7.09	145.1	Depth of Water: 10.38
	1218		0.1	6.57	0.294	12.7	3.8		7.00	160.8	Length of Water Column:
	1223		0.2	6.36	0.295	12.9	3.4		7.01	167.2	Depth of Well:
	1228		0.3	6.29	0.292	12.9	3.2		6.86	171.6	Sheen Observed: Y (N)
	1233		0.4	6.28	0.293	12.8	3.2		6.92	171.9	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056491.79

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 :	**MW-5 S**	Ground Surface Elevation:		Riser/Screen Material:	PVC
Installation Date:	11/86	Protective Casing Elevation:	1534.35 ft.	Top of Screen Depth:	7.5 ft.
Installed By:	Rochester Drilling Co.	Monitoring Point Elevation:	1534.16 ft.	Bottom of Screen Depth:	17.5 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
8.96	7.97	0.595	13.9	3.12	Clear

Notes:

Field Observations

Exterior Observations: Road box flooded - purged

Interior Observations

Signs of Damage/Tampering:

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: MW-5S
Conductivity	+/- 3%	Sample Time: 1020
Temperature	+/- 10%	# of Sample Containers: 4
Turbidity	+/- 10%	Duplicate Sample ID: GW-DUP
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	

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
6/29/18	1002	10.17	0	6.70	0.360	10.7	2.2	Clear	5.78	75.1	Depth of Water: 9.89
	1007		0.2	6.64	0.361	10.3	1.6		5.47	84.6	Length of Water Column:
	1012		0.3	6.61	0.360	10.3	0.8		5.30	90.2	Depth of Well:
	1017		0.4	6.61	0.360	10.3	1.8		5.28	90.8	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056491.79

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 :	**MW-9 I**	Ground Surface Elevation:		Riser/Screen Material: PVC	
Installation Date:	1/87	Protective Casing Elevation: 1532.69 ft.		Top of Screen Depth: 29.5 ft.	
Installed By:	Rochester Drilling Co.	Monitoring Point Elevation: 1532.3 ft.		Bottom of Screen Depth: 49.5 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
10.23	7.54	0.618	13.5	6.37	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations:	pH +/- 0.1	Sample ID: MW-9 I
	Conductivity +/- 3%	Sample Time: 1155
Interior Observations	Temperature +/- 10%	# of Sample Containers:
	Turbidity +/- 10%	Duplicate Sample ID:
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO +/- 10%	

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

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
6/20/18	1134	11.19	0	7.56	0.612	11.3	16.8	Brown	4.16	116.6	Depth of Water: 11.16
	1139		0.2	7.36	0.613	10.9	5.7	Clear	3.06	110.8	Length of Water Column:
	1144		0.8	7.30	0.613	11.0	9.8		2.90	106.6	Depth of Well:
	1149		2.4	7.30	0.613	11.0	9.5		2.89	106.2	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.64

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-1.25**	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: Road box flooded

Interior Observations: Good

Signs of Damage/Tampering:

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: EW-1.25
Conductivity	+/- 3%	Sample Time: 1120
Temperature	+/- 10%	# of Sample Containers: 7
Turbidity	+/- 10%	Duplicate Sample ID: NA
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
* 6/21/18	1052	9.56	0	6.31	0.673	12.6	503.5	Lt Brn	0.97	-75.4	Depth of Water: 9.40
	1101	9.85	0.1	6.19	0.658	12.7	70.1	↓	0.92	-56.5	Length of Water Column:
	1106	10.01	0.2	6.15	0.638	12.2	31.0	clear	0.70	-55.5	Depth of Well: 14.79
	1111	10.15	0.3	6.13	0.631	12.2	20.7	↓	0.65	-54.0	Sheen Observed: (Y) N
	1116	10.21	0.4	6.12	0.629	12.1	21.5	↓	0.65	-54.1	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

* - emptied flow through cell

File: 21.0056491.79

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-1.5**	Ground Surface Elevation: 1531.45		Riser/Screen Material: Steel/Stainless Steel	
Installation Date:	7/90	Protective Casing Elevation: 1534.32 ft.		Top of Screen Depth: 40 ft.	
Installed By:	Empire Soils	Monitoring Point Elevation: 1533.92 ft.		Bottom of Screen Depth: 50 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
10.09	7.49	0.575	14.1	6.51	Clear

Notes:

Field Observations

Exterior Observations: Road box flooded

Interior Observations: Good

Signs of Damage/Tampering:

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: EW-1.5
Conductivity	+/- 3%	Sample Time: 1550
Temperature	+/- 10%	# of Sample Containers: 6
Turbidity	+/- 10%	Duplicate Sample ID: MS/MSD
ORP	+/- 10mV	Sample Analysis: VOCs 8260
DO	+/- 10%	

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
6/19/18	1436	11.13	0	11.71	0.902	11.1	53.3	Clear	1.08	109.4	Depth of Water: 11.06
	1441		0.3	11.00	0.988	11.0	51.2		0.67	-171.5	Length of Water Column: 38.94
	1446		1.0	11.84	0.935	11.0	31.8		0.59	-207.7	Depth of Well: 50
	1451		1.6	11.75	0.805	11.1	30.5		0.56	-225.0	Sheen Observed: Y (N)
	1456		2.1	11.19	0.460	11.1	30.1		0.54	-229.2	DNAPL Observed: Y (N)
	1508		3.2	10.21	0.411	11.1	30.2		0.52	-232.9	Did Well Go Dry: Y (N)
	1516		4.0	9.57	0.421	11.2	30.5		0.51	-234.8	Other:
	1525		4.8	9.01	0.434	11.1	30.8		0.51	-297.1	
	1530		5.3	8.82	0.436	11.1	30.5		0.51	-312.5	
	1535		5.8	8.80	0.439	11.1	30.7		0.51	-310.9	
	1540		6.3	8.80	0.438	11.1	30.9		0.50	-307.8	

File: 21.0056491.79

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-2.5**	Ground Surface Elevation: 1531.45		Riser/Screen Material: Steel/Stainless Steel	
Installation Date:	7/90	Protective Casing Elevation: 1534.32 ft.		Top of Screen Depth: 40 ft.	
Installed By:	Empire Soils	Monitoring Point Elevation: 1533.92 ft.		Bottom of Screen Depth: 50 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
12.42	7.54	0.629	14	5.06	Clear

Notes:

Field Observations		Parameters +/-		Sampling Information
Exterior Observations: Good - lock cut		pH	+/- 0.1	Sample ID: EW-2.5
		Conductivity	+/- 3%	Sample Time: 1430
Interior Observations Good		Temperature	+/- 10%	# of Sample Containers: 2
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:		DO	+/- 10%	

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
6/19/18	1335	13.57	0	8.53	0.202	10.6	59.4	clear	1.72	17.4	Depth of Water: 13.50
	1340		0.6	9.04	0.198	10.4	30.1		0.68	-141.1	Length of Water Column: 36.50
	1348		1.3	9.07	0.199	10.4	22.3		0.61	-200.8	Depth of Well: 50.00
	1355		2.0	8.35	0.561	10.5	2.5		2.06	-98.7	Sheen Observed: Y (N)
	1401		2.6	7.74	0.625	10.5	0.3		2.94	-30.9	DNAPL Observed: Y (N)
	1406		3.2	7.66	0.635	10.6	0.5		3.12	-16.3	Did Well Go Dry: Y (N)
	1414		3.9	7.45	0.637	10.6	0.3		3.15	-7.5	Other:
	1419		4.6	7.43	0.640	10.6	0.1		3.18	-5.0	
	1424		5.3	7.43	0.642	10.6	0.7		3.19	-4.8	

File: 21.0056491.79

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-4.5**	Ground Surface Elevation: 1533.55		Riser/Screen Material: Steel/Stainless Steel	
Installation Date:	7/90	Protective Casing Elevation: 1535.97 ft.		Top of Screen Depth: 40 ft.	
Installed By:	Empire Soils	Monitoring Point Elevation: 1535.65 ft.		Bottom of Screen Depth: 50 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
16.21	7.99	0.581	13.7	9.12	Clear

Notes:

Field Observations				Parameters +/-		Sampling Information
Exterior Observations:	Unlocked - riser lid hinge broken			pH	+/- 0.1	Sample ID: EW-4.5
				Conductivity	+/- 3%	Sample Time: 1205
Interior Observations	Good, ~45' of 1/4" sample tubing removed from well @ end of sampling (from prior event).			Temperature	+/- 10%	# of Sample Containers: 2
				Turbidity	+/- 10%	Duplicate Sample ID: NA
				ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:				DO	+/- 10%	
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
6/19/18	1141	17.32	0	8.16	0.654	10.7	49.1	clear	1.58	-176.5	Depth of Water: 17.29
	1146		0.3	7.58	0.641	10.3	39.0		0.75	-219.3	Length of Water Column: 32.71
	1151		1.0	7.41	0.641	10.3	40.4		0.61	-236.7	Depth of Well: 50.00
	1156		1.3	7.41	0.641	10.2	40.3		0.59	-240.4	Sheen Observed: Y (N)
	1201		1.6	7.41	0.641	10.2	40.5		0.59	-242.5	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056491.79

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 :	**IRM-1**	Ground Surface Elevation:		Riser/Screen Material:	Steel/Stainless Steel
Installation Date:	1990	Protective Casing Elevation:		Top of Screen Depth:	40 ft.
Installed By:	Empire Soils	Monitoring Point Elevation:	1534.75 ft.	Bottom of Screen Depth:	50 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
22.32	7.48	0.652	11.1	8.72	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: Cut lock	pH +/- 0.1	Sample ID: IRM-1
	Conductivity +/- 3%	Sample Time: 1015
Interior Observations Good	Temperature +/- 10%	# of Sample Containers: 2
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO +/- 10%	

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
9/26/19	955	24.92	0	7.63	0.653	10.8	9.50	Brown	1.38	-6.1	Depth of Water: 24.84
	1000		4.3	7.50	0.649	10.9	30.1	Clear	1.16	15.7	Length of Water Column: 25.16
	1005	↓	7.7	7.42	0.649	10.8	6.2	↓	1.15	21.5	Depth of Well: 50.00
	1010	↓	10.8	7.42	0.649	10.8	6.1	↓	1.15	22.2	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056491.79

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 :	**IRM-2 I**	Ground Surface Elevation:		Riser/Screen Material:	Steel/Stainless Steel
Installation Date:	1990	Protective Casing Elevation:		Top of Screen Depth:	40 ft.
Installed By:	Empire Soils	Monitoring Point Elevation:	1535.99 ft.	Bottom of Screen Depth:	50 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
22.62	7.84	0.547	10.9	22.8	

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations:	pH +/- 0.1	Sample ID: IRM-2 I
	Conductivity +/- 3%	Sample Time: 1110
Interior Observations	Temperature +/- 10%	# of Sample Containers: 4
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO +/- 10%	

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
6/19/18	1046	25.36	0	10.32	0.514	11.0	220	Brown	1.39	49.5	Depth of Water: 24.89
	1051		2.2	8.39	0.542	10.9	316.1	↓	1.50	95.5	Length of Water Column: 16.92
	1056		4.0	7.94	0.551	10.8	50.5	↓	1.57	49.3	Depth of Well: 41.81
	1101		6.0	7.76	0.553	10.8	20.2	Clear	1.57	100.5	Sheen Observed: Y (N)
	1106		8.0	7.72	0.553	10.8	7.9	↓	1.57	103.1	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056491.79

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 :	**Town Well**	Ground Surface Elevation:	Riser/Screen Material: Steel/Stainless Steel
Installation Date:	1982	Protective Casing Elevation:	Top of Screen Depth: 41.5 ft.
Installed By:		Monitoring Point Elevation:	Bottom of Screen Depth: 51.5 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
NA	7.32	0.566	16.2	2.02	Clear

Notes:

Field Observations	Parameters +/-	Sampling Information
Exterior Observations:	pH +/- 0.1	Sample ID: TOWN WELL
	Conductivity +/- 3%	Sample Time: 910
Interior Observations	Temperature +/- 10%	# of Sample Containers: 3
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO +/- 10%	

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

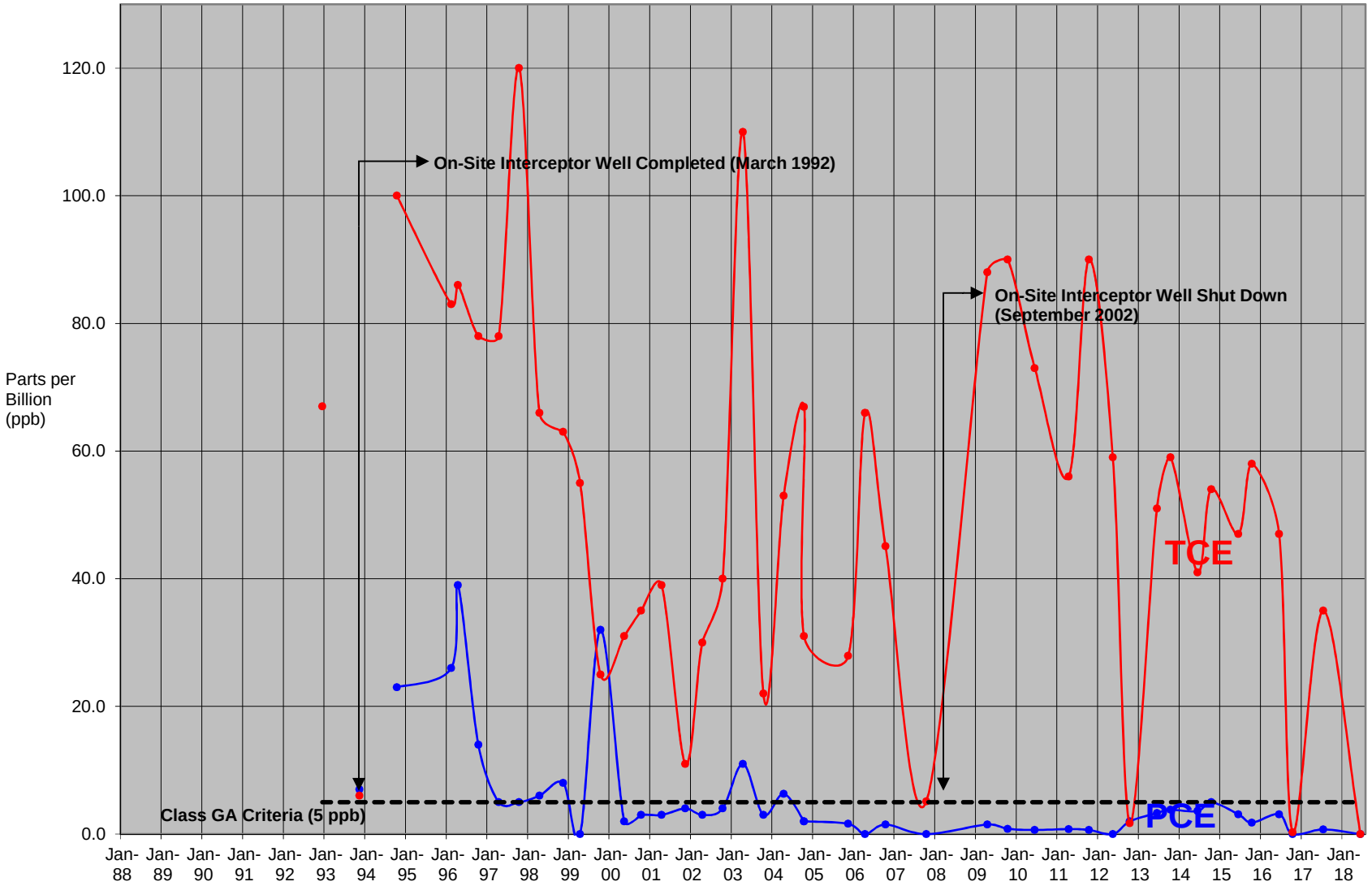
Well Quality Data

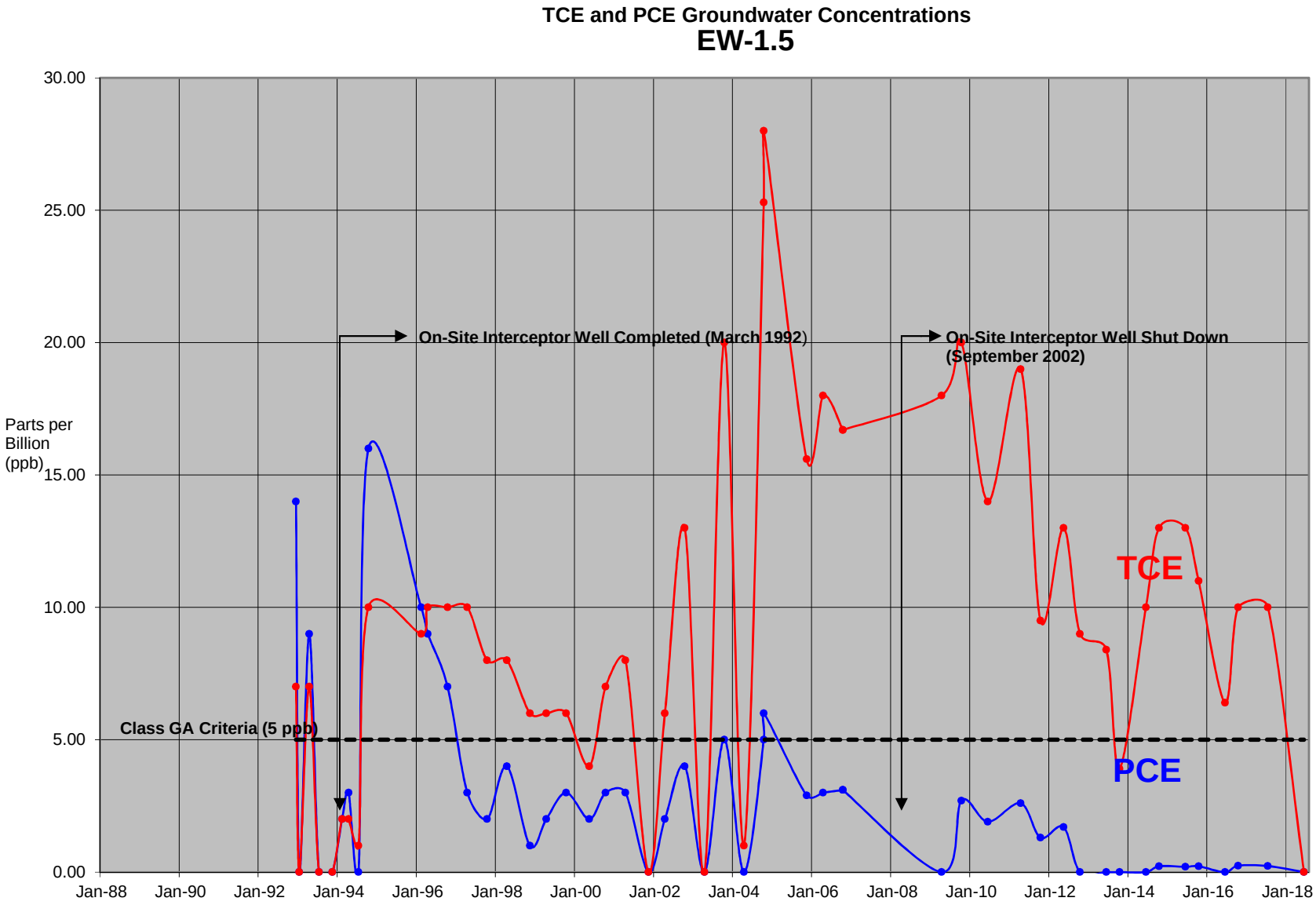
Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (°C)	Turbidity (NTU)	Color	Dissolved Oxygen	Oxygen Reduction Potential	Notes
6/19/18	904	–	5	6.91	0.608	19.6	5.3	Clear	3.74	592.8	Depth of Water: –
											Length of Water Column: –
											Depth of Well: –
											Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

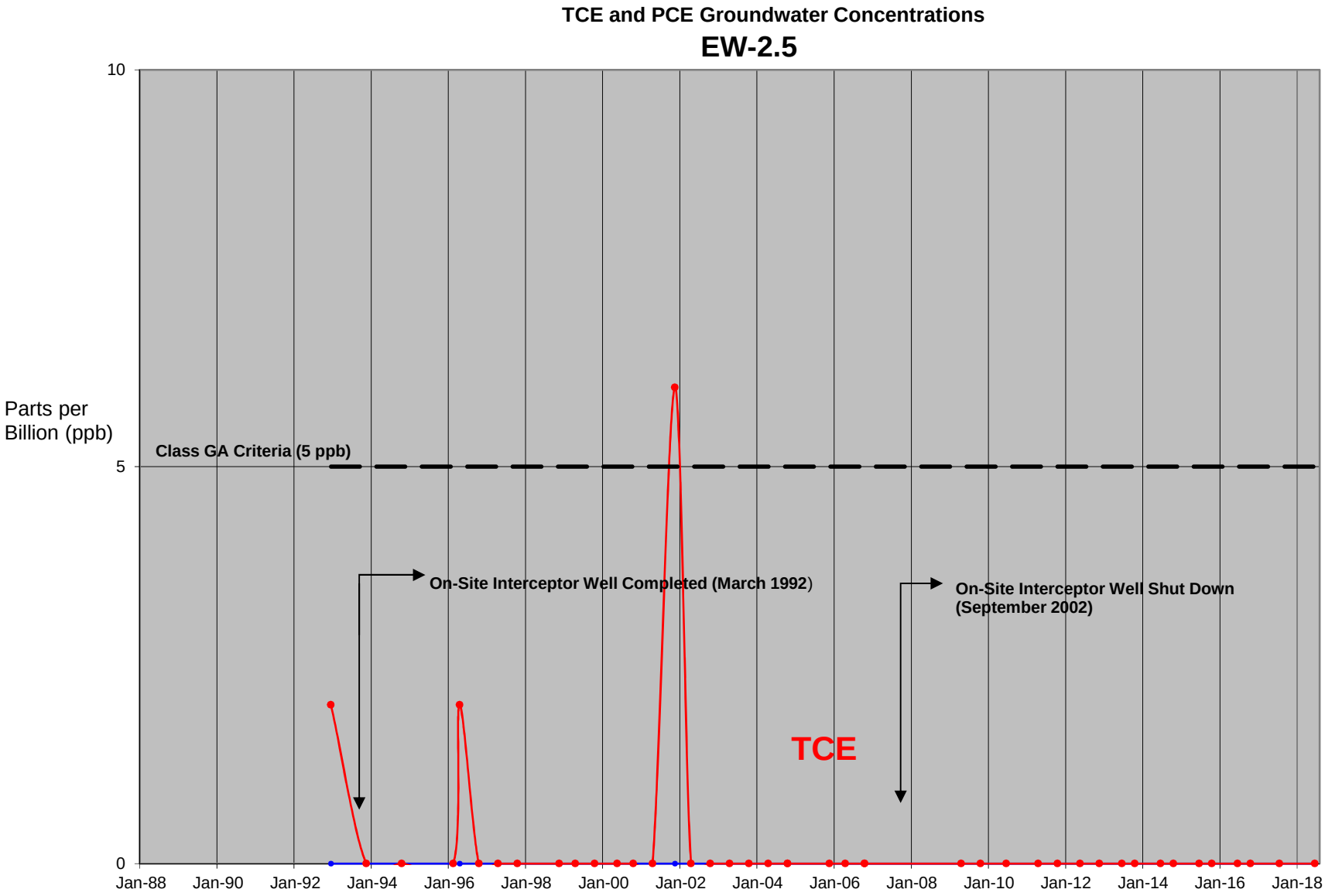
APPENDIX C TCE AND PCE CONCENTRATION GRAPHS

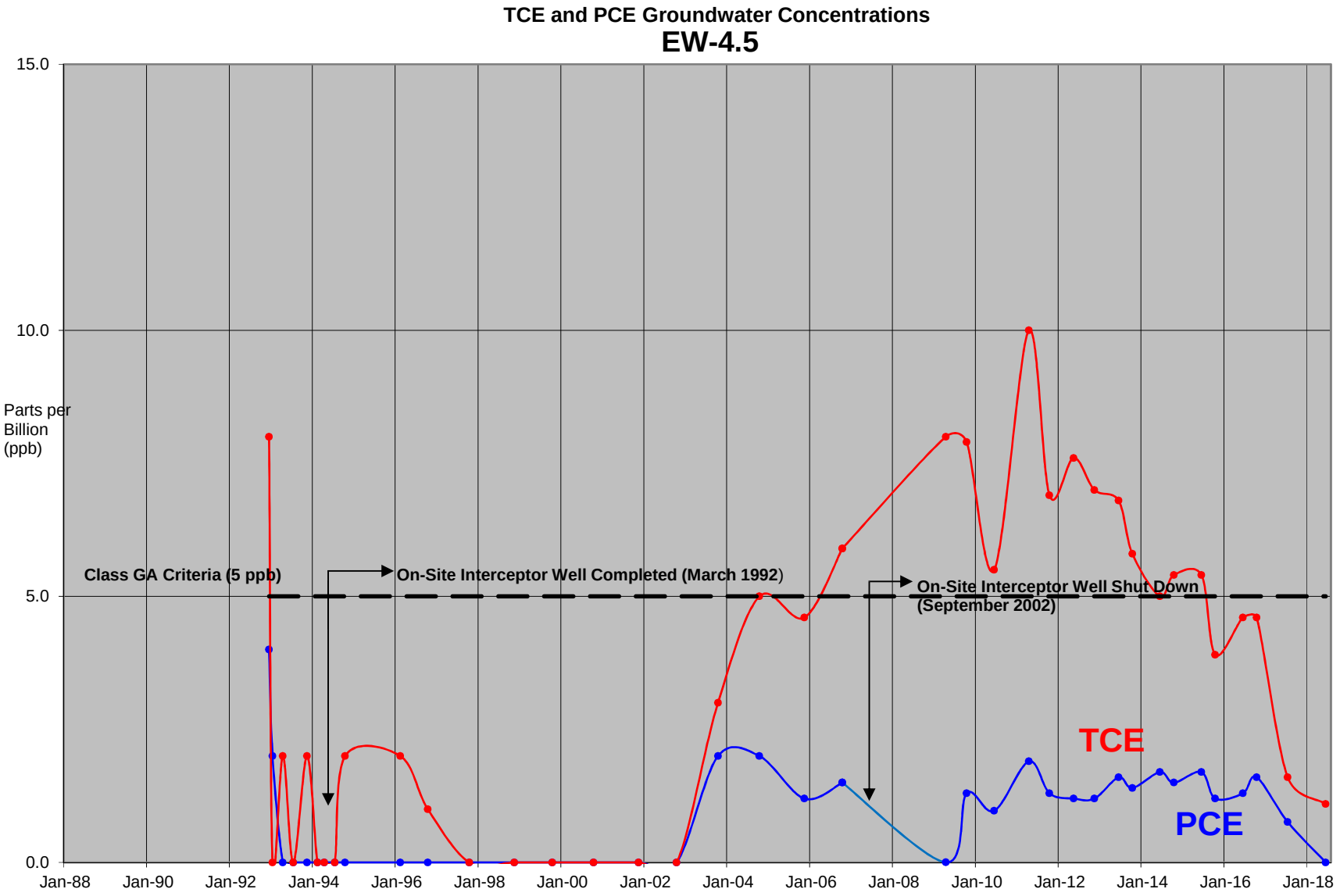
TCE and PCE Groundwater Concentrations

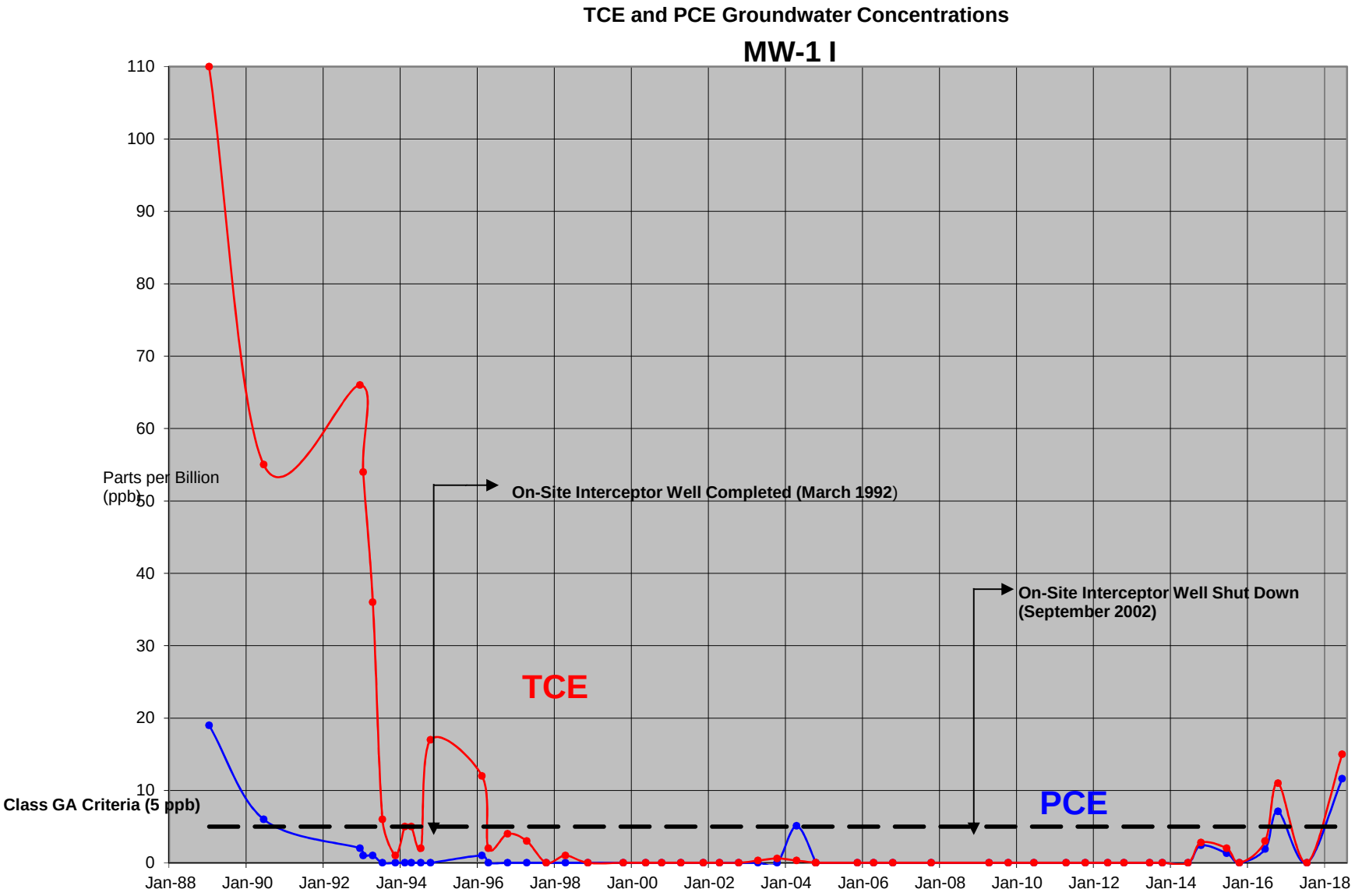
EW-1.25




TCE and PCE Groundwater Concentrations
EW-1.5
Parts per Billion (ppb)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
On-Site Interceptor Well Completed (March 1992)
On-Site Interceptor Well Shut Down (September 2002)
Class GA Criteria (5 ppb)
TCE
PCE

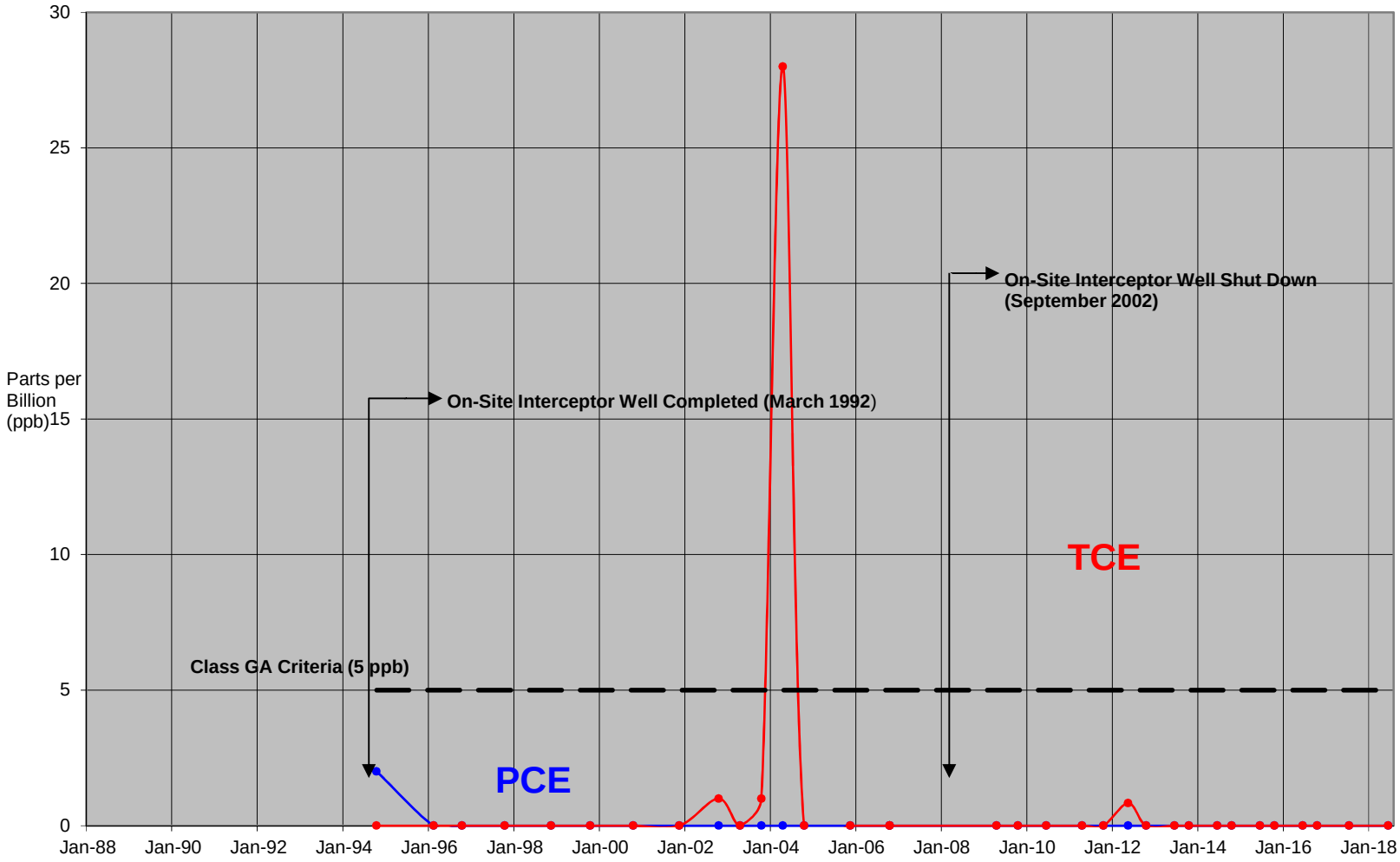

TCE and PCE Groundwater Concentrations
EW-2.5
Parts per Billion (ppb)
10
5
0
Class GA Criteria (5 ppb)
On-Site Interceptor Well Completed (March 1992)
On-Site Interceptor Well Shut Down (September 2002)
TCE
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18


TCE and PCE Groundwater Concentrations
EW-4.5
15.0
10.0
5.0
0.0
Parts per Billion (ppb)
Class GA Criteria (5 ppb)
On-Site Interceptor Well Completed (March 1992)
On-Site Interceptor Well Shut Down (September 2002)
TCE
PCE
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18


TCE and PCE Groundwater Concentrations
MW-1 I
Parts per Billion (ppb)
110
100
90
80
70
60
50
40
30
20
10
0
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
On-Site Interceptor Well Completed (March 1992)
On-Site Interceptor Well Shut Down (September 2002)
TCE
PCE
Class GA Criteria (5 ppb)

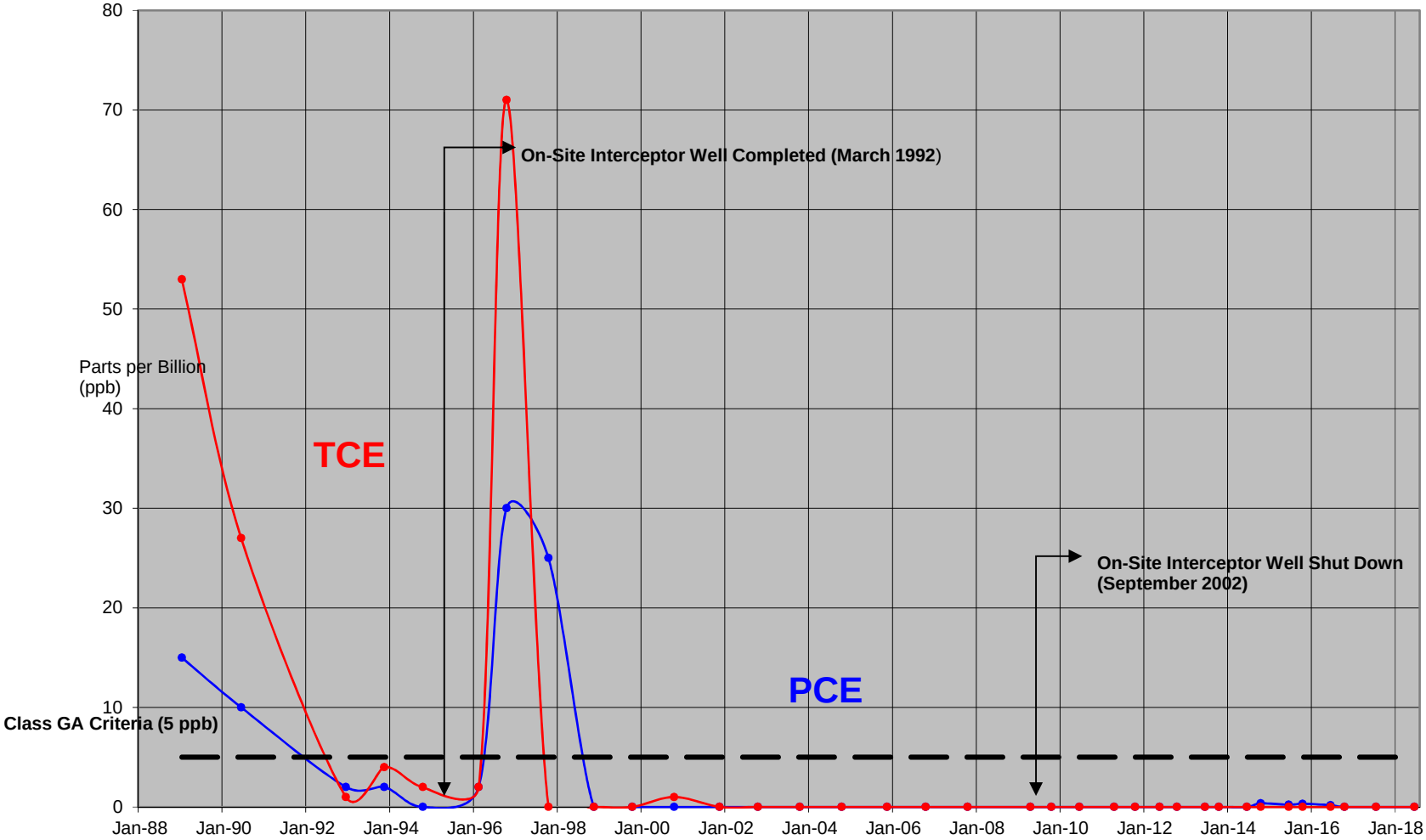
TCE and PCE Groundwater Concentrations

MW-2 I



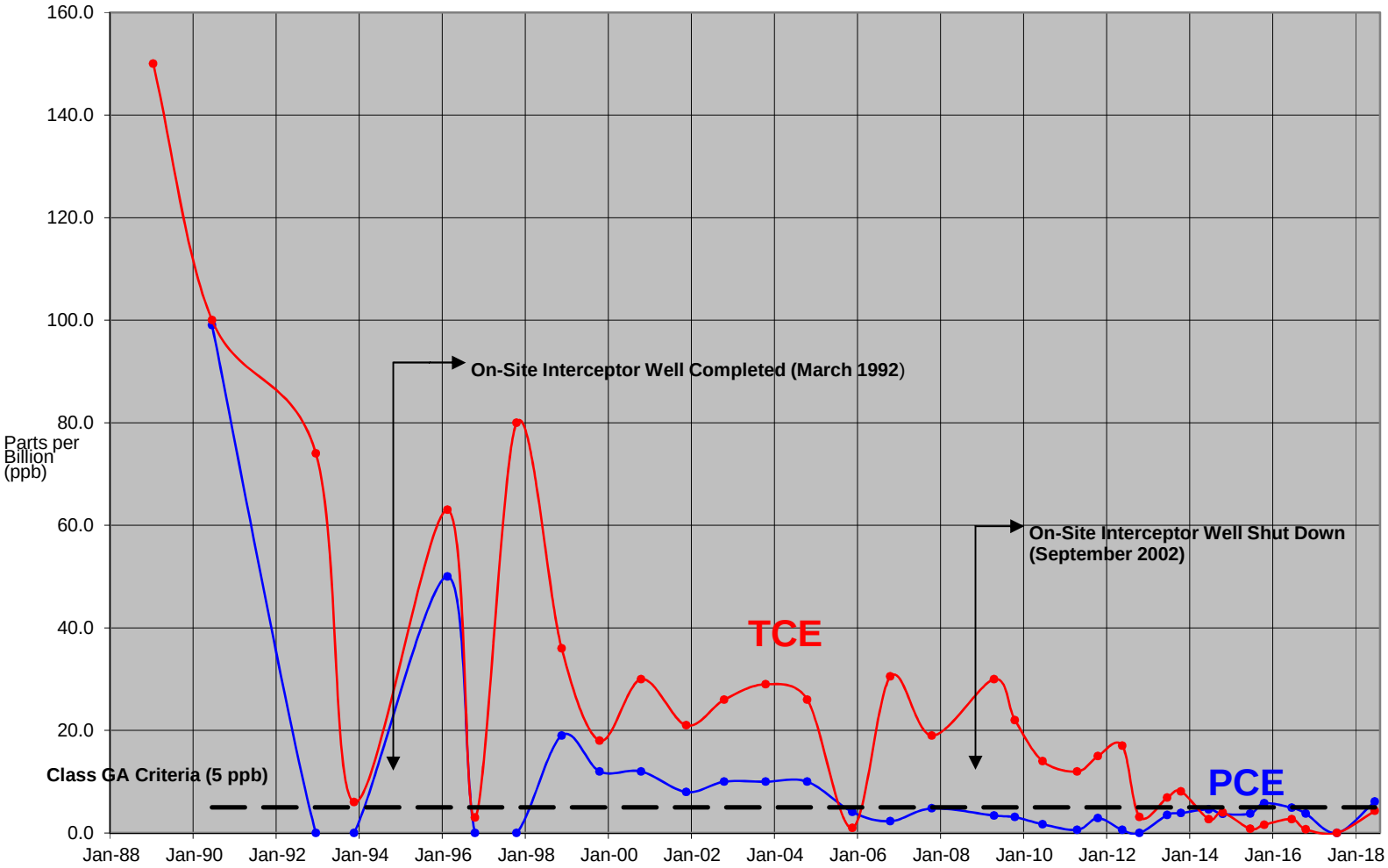
TCE and PCE Groundwater Concentrations

MW-4S



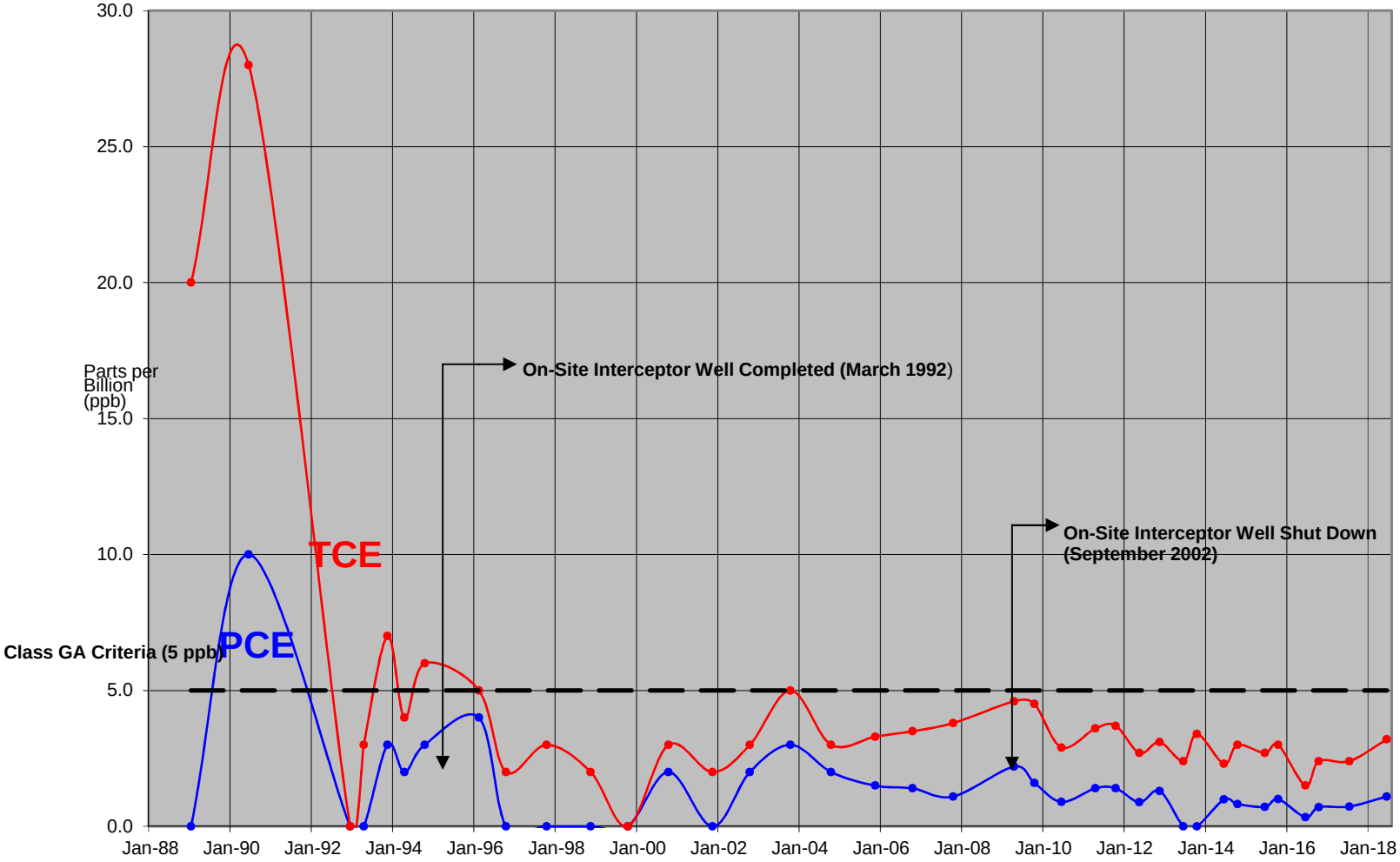
TCE and PCE Groundwater Concentrations

MW-5S



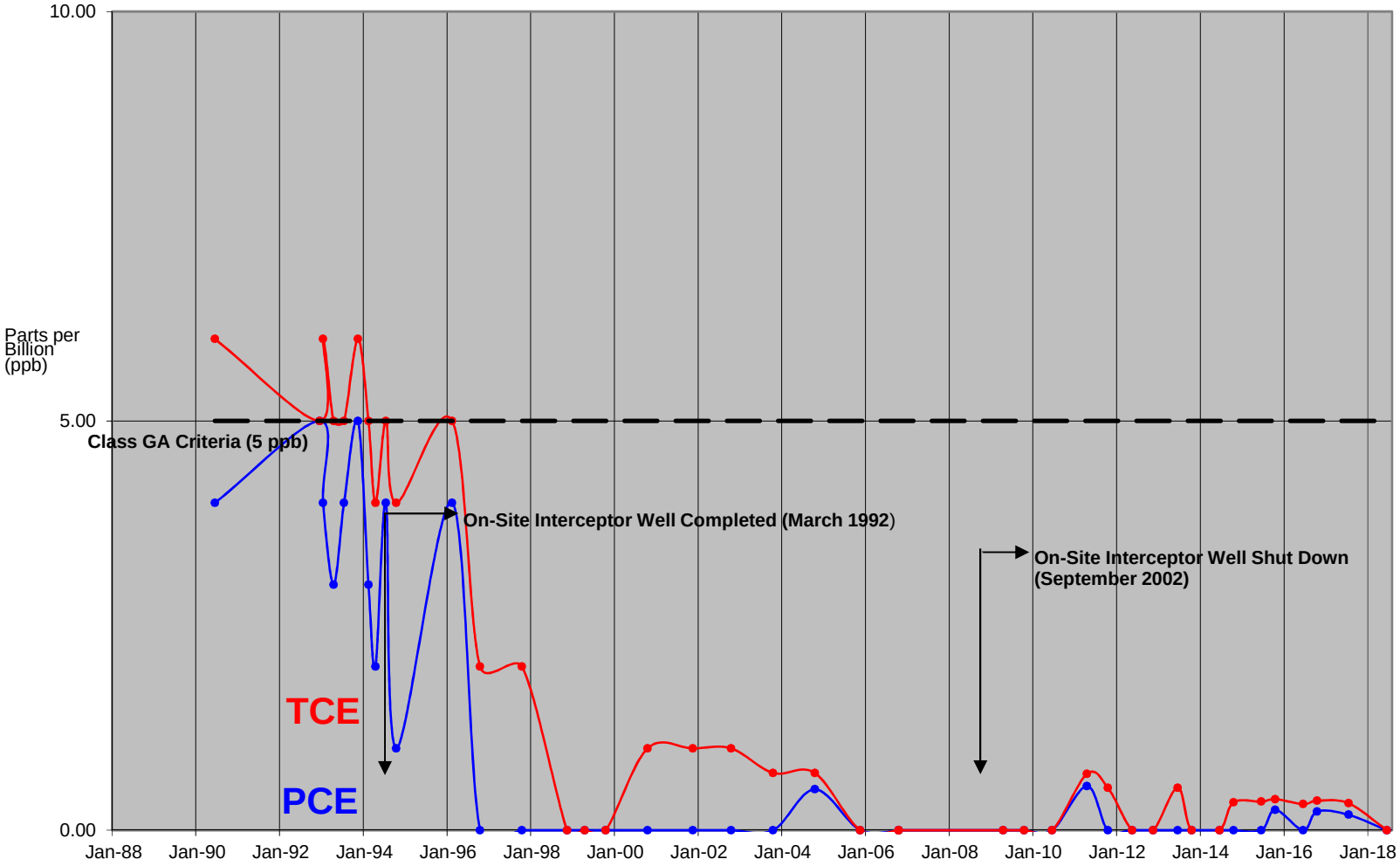
TCE and PCE Groundwater Concentrations

MW-9 I



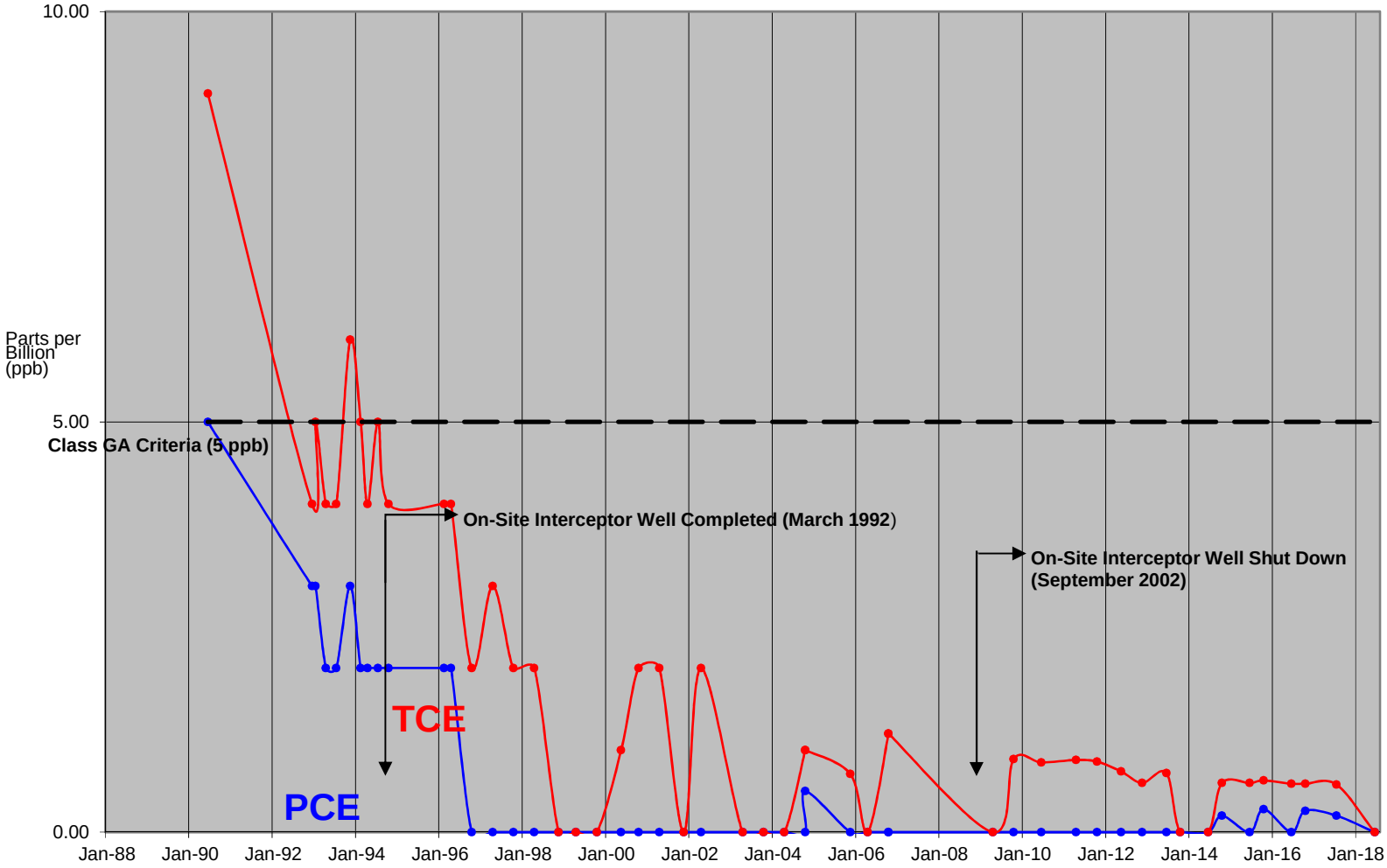
TCE and PCE Groundwater Concentrations

IRM-1



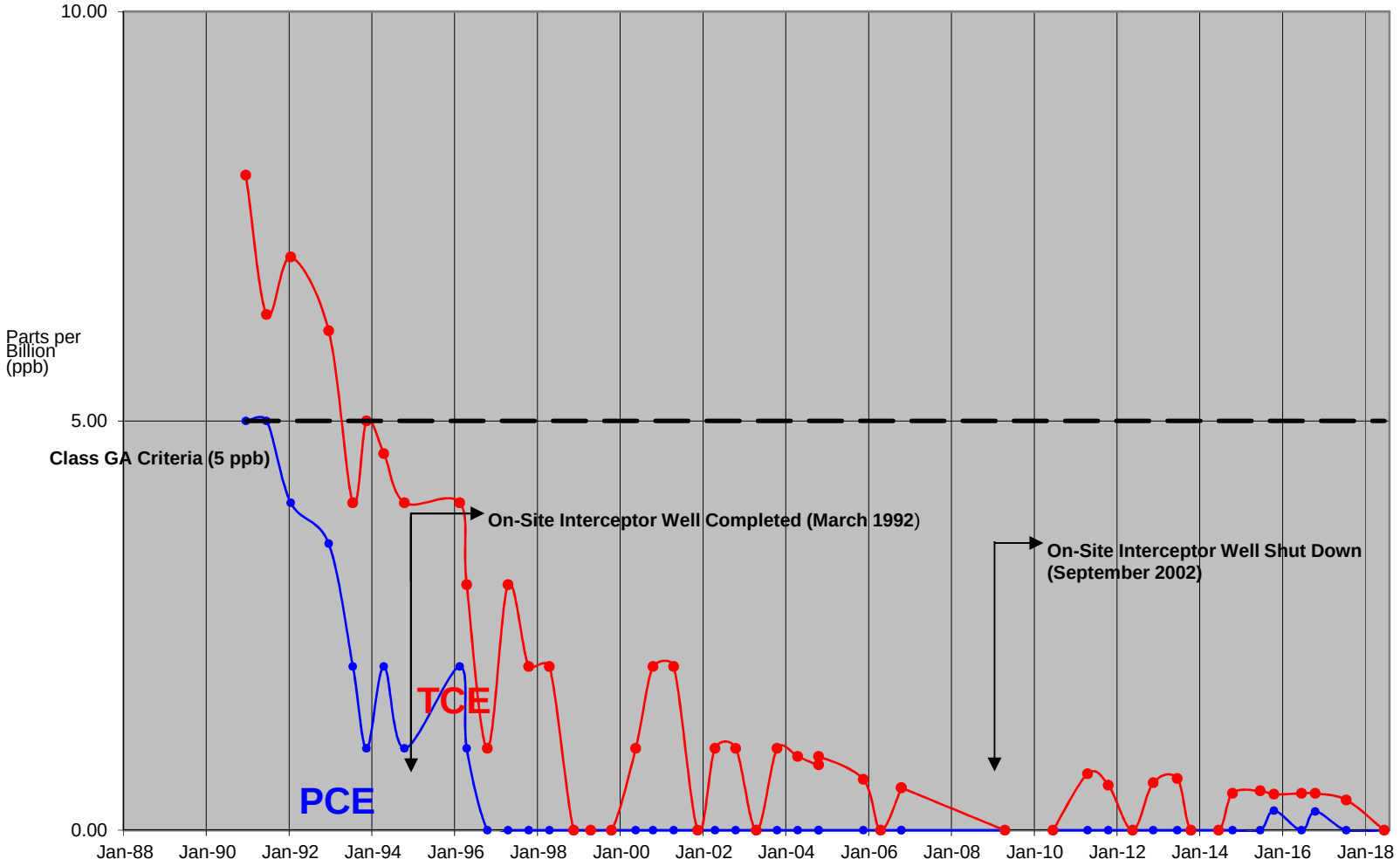
TCE and PCE Groundwater Concentrations

IRM-2 I



TCE and PCE Groundwater Concentrations

TOWN WELL



APPENDIX D ANALYTICAL TEST RESULTS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 20, 2018

Thomas Bohlen
GZA GeoEnvironmental
300 Pearl Street
Buffalo, NY 14202

RE: Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Dear Thomas Bohlen:
Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Sophia Sparkes

Sophia Sparkes for
Caitlin Panzarella
caitlin.panzarella@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Margaret Popek, GZA GeoEnvironmental

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: IRM-1-061918 **Lab ID: 7055996001** Collected: 06/19/18 10:15 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 22:07	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 22:07	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 22:07	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 22:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 22:07	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 22:07	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 22:07	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 22:07	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-09-2	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: IRM-1-061918 **Lab ID: 7055996001** Collected: 06/19/18 10:15 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 22:07	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 22:07	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:07	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 22:07	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 22:07	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 22:07	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 22:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		06/26/18 22:07	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/26/18 22:07	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 22:07	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: IRM-2I-061918 **Lab ID: 7055996002** Collected: 06/19/18 11:10 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 22:24	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 22:24	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 22:24	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 22:24	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 22:24	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 22:24	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 22:24	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 22:24	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-09-2	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: IRM-2I-061918 **Lab ID: 7055996002** Collected: 06/19/18 11:10 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 22:24	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 22:24	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:24	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 22:24	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 22:24	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 22:24	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 22:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 22:24	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 22:24	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/26/18 22:24	2037-26-5	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: TOWNWELL-061918 **Lab ID: 7055996003** Collected: 06/19/18 09:10 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 22:42	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 22:42	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 22:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 22:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	106-43-4	
Dibromochloromethane	**1.3**	ug/L	1.0	1		06/26/18 22:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 22:42	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 22:42	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 22:42	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 22:42	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-09-2	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: TOWNWELL-061918 **Lab ID: 7055996003** Collected: 06/19/18 09:10 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 22:42	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 22:42	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 22:42	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 22:42	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 22:42	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 22:42	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 22:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 22:42	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/26/18 22:42	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/26/18 22:42	2037-26-5	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: EW-4.5-061918 **Lab ID: 7055996004** Collected: 06/19/18 12:05 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 23:00	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 23:00	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 23:00	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 23:00	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 23:00	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 23:00	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 23:00	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 23:00	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-09-2	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: EW-4.5-061918 **Lab ID: 7055996004** Collected: 06/19/18 12:05 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 23:00	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 23:00	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	1		06/26/18 23:00	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:00	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:00	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 23:00	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 23:00	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 23:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		06/26/18 23:00	17060-07-0	
4-Bromofluorobenzene (S)	106	%	79-124	1		06/26/18 23:00	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/26/18 23:00	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: EW-2.5-061918 **Lab ID: 7055996005** Collected: 06/19/18 14:30 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 23:18	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 23:18	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 23:18	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 23:18	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 23:18	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 23:18	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 23:18	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 23:18	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-09-2	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: EW-2.5-061918 **Lab ID: 7055996005** Collected: 06/19/18 14:30 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 23:18	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 23:18	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:18	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:18	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 23:18	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 23:18	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 23:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		06/26/18 23:18	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-124	1		06/26/18 23:18	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 23:18	2037-26-5	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: EW-1.5-061918 **Lab ID: 7055996006** Collected: 06/19/18 15:50 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 23:36	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	108-86-1	L1,M0
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 23:36	78-93-3	CL,M1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	104-51-8	M1
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	135-98-8	M1
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 23:36	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 23:36	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 23:36	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	110-57-6	M1
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-34-3	L2,M0
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 23:36	64-17-5	CL,R1
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 23:36	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 23:36	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-09-2	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: EW-1.5-061918 **Lab ID: 7055996006** Collected: 06/19/18 15:50 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 23:36	108-10-1	M1
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 23:36	1634-04-4	M1
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	91-20-3	M1
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	79-34-5	M1
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:36	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:36	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 23:36	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 23:36	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 23:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 23:36	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 23:36	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		06/26/18 23:36	2037-26-5	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-2I-062018 **Lab ID: 7055996007** Collected: 06/20/18 13:25 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 23:54	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 23:54	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 23:54	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 23:54	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 23:54	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 23:54	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 23:54	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 23:54	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-09-2	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-2I-062018 **Lab ID: 7055996007** Collected: 06/20/18 13:25 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 23:54	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 23:54	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 23:54	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 23:54	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 23:54	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 23:54	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 23:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		06/26/18 23:54	17060-07-0	
4-Bromofluorobenzene (S)	108	%	79-124	1		06/26/18 23:54	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		06/26/18 23:54	2037-26-5	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-4S-062018 **Lab ID: 7055996008** Collected: 06/20/18 12:35 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/27/18 00:12	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/27/18 00:12	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/27/18 00:12	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/27/18 00:12	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/27/18 00:12	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/27/18 00:12	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/27/18 00:12	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/27/18 00:12	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-09-2	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-4S-062018 **Lab ID: 7055996008** Collected: 06/20/18 12:35 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/27/18 00:12	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/27/18 00:12	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:12	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/27/18 00:12	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/27/18 00:12	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/27/18 00:12	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/27/18 00:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		06/27/18 00:12	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/27/18 00:12	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/27/18 00:12	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-5S-062018 **Lab ID: 7055996009** Collected: 06/20/18 10:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/27/18 00:30	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/27/18 00:30	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/27/18 00:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/27/18 00:30	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/27/18 00:30	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/27/18 00:30	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/27/18 00:30	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/27/18 00:30	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-09-2	

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ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-5S-062018 **Lab ID: 7055996009** Collected: 06/20/18 10:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/27/18 00:30	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/27/18 00:30	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	79-34-5	
Tetrachloroethene	**6.1**	ug/L	1.0	1		06/27/18 00:30	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	79-00-5	
Trichloroethene	**4.3**	ug/L	1.0	1		06/27/18 00:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:30	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/27/18 00:30	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/27/18 00:30	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/27/18 00:30	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/27/18 00:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		06/27/18 00:30	17060-07-0	
4-Bromofluorobenzene (S)	108	%	79-124	1		06/27/18 00:30	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/27/18 00:30	2037-26-5	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-1I-062018 **Lab ID: 7055996010** Collected: 06/20/18 09:45 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 19:43	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 19:43	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 19:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 19:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 19:43	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		06/26/18 19:43	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-35-4	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	1		06/26/18 19:43	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 19:43	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 19:43	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 19:43	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-09-2	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-1I-062018 **Lab ID: 7055996010** Collected: 06/20/18 09:45 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 19:43	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 19:43	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	79-34-5	
Tetrachloroethene	**11.6**	ug/L	1.0	1		06/26/18 19:43	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	79-00-5	
Trichloroethene	**15.0**	ug/L	1.0	1		06/26/18 19:43	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:43	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 19:43	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 19:43	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 19:43	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 19:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 19:43	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/26/18 19:43	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 19:43	2037-26-5	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-9I-062018 **Lab ID: 7055996011** Collected: 06/20/18 11:55 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/27/18 00:48	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/27/18 00:48	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/27/18 00:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/27/18 00:48	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/27/18 00:48	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/27/18 00:48	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/27/18 00:48	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/27/18 00:48	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-09-2	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: MW-9I-062018 **Lab ID: 7055996011** Collected: 06/20/18 11:55 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/27/18 00:48	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/27/18 00:48	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	1		06/27/18 00:48	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	1		06/27/18 00:48	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 00:48	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/27/18 00:48	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/27/18 00:48	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/27/18 00:48	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/27/18 00:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		06/27/18 00:48	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/27/18 00:48	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/27/18 00:48	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: GW-DUP-062018 **Lab ID: 7055996012** Collected: 06/20/18 00:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/27/18 01:05	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/27/18 01:05	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/27/18 01:05	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/27/18 01:05	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/27/18 01:05	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/27/18 01:05	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/27/18 01:05	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/27/18 01:05	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-09-2	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: GW-DUP-062018 **Lab ID: 7055996012** Collected: 06/20/18 00:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/27/18 01:05	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/27/18 01:05	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	79-34-5	
Tetrachloroethene	**6.0**	ug/L	1.0	1		06/27/18 01:05	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	79-00-5	
Trichloroethene	**4.0**	ug/L	1.0	1		06/27/18 01:05	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/27/18 01:05	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/27/18 01:05	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/27/18 01:05	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/27/18 01:05	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/27/18 01:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		06/27/18 01:05	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/27/18 01:05	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/27/18 01:05	2037-26-5	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: TRIP BLANK **Lab ID: 7055996013** Collected: 06/20/18 00:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 19:25	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 19:25	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 19:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 19:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 19:25	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 19:25	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 19:25	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 19:25	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-09-2	

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Sample: TRIP BLANK **Lab ID: 7055996013** Collected: 06/20/18 00:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 19:25	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 19:25	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 19:25	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 19:25	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 19:25	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 19:25	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 19:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		06/26/18 19:25	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 19:25	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		06/26/18 19:25	2037-26-5	

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(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

QC Batch: 73077 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7055996001, 7055996002, 7055996003, 7055996004, 7055996005, 7055996006, 7055996007, 7055996008, 7055996009, 7055996010, 7055996011, 7055996012, 7055996013

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055996001, 7055996002, 7055996003, 7055996004, 7055996005, 7055996006, 7055996007, 7055996008, 7055996009, 7055996010, 7055996011, 7055996012, 7055996013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Diethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/26/18 17:58	CL
2-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
2-Hexanone	ug/L	<5.0	5.0	06/26/18 17:58	
4-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/26/18 17:58	
Acetone	ug/L	<5.0	5.0	06/26/18 17:58	CL
Benzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromodichloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromoform	ug/L	<1.0	1.0	06/26/18 17:58	
Bromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon disulfide	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon tetrachloride	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	N3
Chloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
Chloroform	ug/L	<1.0	1.0	06/26/18 17:58	

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

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QUALITY CONTROL DATA

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

METHOD BLANK: 335457 Matrix: Water

Associated Lab Samples: 7055996001, 7055996002, 7055996003, 7055996004, 7055996005, 7055996006, 7055996007, 7055996008, 7055996009, 7055996010, 7055996011, 7055996012, 7055996013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	<1.0	1.0	06/26/18 17:58	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dichlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Ethanol	ug/L	<250	250	06/26/18 17:58	CL
Ethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	06/26/18 17:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	06/26/18 17:58	
m&p-Xylene	ug/L	<2.0	2.0	06/26/18 17:58	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	06/26/18 17:58	
Methylene Chloride	ug/L	<1.0	1.0	06/26/18 17:58	
n-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
n-Propylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Naphthalene	ug/L	<1.0	1.0	06/26/18 17:58	
o-Xylene	ug/L	<1.0	1.0	06/26/18 17:58	
p-Isopropyltoluene	ug/L	<1.0	1.0	06/26/18 17:58	
sec-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Styrene	ug/L	<1.0	1.0	06/26/18 17:58	
tert-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Tetrachloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Toluene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichlorofluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Vinyl chloride	ug/L	<1.0	1.0	06/26/18 17:58	CL
Xylene (Total)	ug/L	<3.0	3.0	06/26/18 17:58	
1,2-Dichloroethane-d4 (S)	%	105	68-153	06/26/18 17:58	
4-Bromofluorobenzene (S)	%	104	79-124	06/26/18 17:58	
Toluene-d8 (S)	%	95	69-124	06/26/18 17:58	

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	74-113	
1,1,1-Trichloroethane	ug/L	50	55.0	110	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	86	74-121	
1,1,2-Trichloroethane	ug/L	50	48.0	96	80-117	
1,1-Dichloroethane	ug/L	50	40.5	81	83-151	L2
1,1-Dichloroethene	ug/L	50	44.7	89	45-146	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	49.8	100	59-127	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	67-103	
1,2,3-Trichloropropane	ug/L	50	50.0	100	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	41.0	82	66-103	N3
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	66-116	
1,2,4-Trimethylbenzene	ug/L	50	44.2	88	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	83-115	
1,2-Dichlorobenzene	ug/L	50	48.8	98	74-113	
1,2-Dichloroethane	ug/L	50	48.1	96	74-129	
1,2-Dichloropropane	ug/L	50	42.2	84	75-117	
1,3,5-Trimethylbenzene	ug/L	50	43.9	88	67-116	
1,3-Dichlorobenzene	ug/L	50	47.9	96	71-112	
1,3-Dichloropropane	ug/L	50	47.6	95	74-112	
1,4-Dichlorobenzene	ug/L	50	48.0	96	71-113	
1,4-Diethylbenzene	ug/L	50	39.1	78	56-130	N3
2,2-Dichloropropane	ug/L	50	42.5	85	63-133	
2-Butanone (MEK)	ug/L	50	33.7	67	44-162	CL
2-Chlorotoluene	ug/L	50	44.8	90	74-101	
2-Hexanone	ug/L	50	47.9	96	32-183	
4-Chlorotoluene	ug/L	50	45.6	91	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.1	90	69-132	
Acetone	ug/L	50	40.3	81	23-188	CL
Benzene	ug/L	50	45.7	91	73-119	
Bromobenzene	ug/L	50	52.4	105	72-102	L1
Bromochloromethane	ug/L	50	46.8	94	81-116	
Bromodichloromethane	ug/L	50	51.8	104	78-117	
Bromoform	ug/L	50	59.7	119	65-122	
Bromomethane	ug/L	50	42.5	85	52-147	
Carbon disulfide	ug/L	50	39.5	79	41-144	
Carbon tetrachloride	ug/L	50	56.8	114	59-120	CH
Chlorobenzene	ug/L	50	49.9	100	75-113	
Chlorodifluoromethane	ug/L	50	38.3	77	43-140	N3
Chloroethane	ug/L	50	36.5	73	49-151	
Chloroform	ug/L	50	44.6	89	72-122	
Chloromethane	ug/L	50	32.4	65	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	41.6	83	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.7	91	78-116	
Dibromochloromethane	ug/L	50	54.4	109	70-120	
Dibromomethane	ug/L	50	50.7	101	75-125	
Dichlorodifluoromethane	ug/L	50	50.5	101	22-154	
Ethanol	ug/L	1250	962	77	10-151	CL
Ethylbenzene	ug/L	50	47.7	95	70-113	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	59-121	
Isopropylbenzene (Cumene)	ug/L	50	45.4	91	67-115	
m&p-Xylene	ug/L	100	97.6	98	72-115	
Methyl-tert-butyl ether	ug/L	50	44.1	88	72-131	
Methylene Chloride	ug/L	50	42.9	86	61-142	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	50	37.7	75	73-107	
n-Propylbenzene	ug/L	50	42.1	84	68-116	
Naphthalene	ug/L	50	43.9	88	70-118	
o-Xylene	ug/L	50	47.6	95	73-117	
p-Isopropyltoluene	ug/L	50	41.4	83	73-101	
sec-Butylbenzene	ug/L	50	38.9	78	72-103	
Styrene	ug/L	50	48.9	98	72-118	
tert-Butylbenzene	ug/L	50	43.0	86	68-100	
Tetrachloroethene	ug/L	50	58.4	117	60-128	CH
Toluene	ug/L	50	48.5	97	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	56-142	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	44.7	89	71-121	
Trichloroethene	ug/L	50	53.1	106	69-117	
Trichlorofluoromethane	ug/L	50	55.0	110	27-173	
Vinyl chloride	ug/L	50	33.9	68	43-143	CL
Xylene (Total)	ug/L	150	145	97	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			95	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	53.0	51.9	106	104	74-113	2	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.9	55.8	116	112	65-118	4	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	35.0	34.6	70	69	74-121	1	M1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	41.8	41.5	84	83	80-117	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	36.7	36.3	73	73	83-151	1	M0
1,1-Dichloroethene	ug/L	<1.0	50	50	38.7	36.6	77	73	45-146	6	
1,1-Dichloropropene	ug/L	<1.0	50	50	50.4	48.4	101	97	59-127	4	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	37.0	39.1	74	78	67-103	6	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	40.8	40.5	82	81	71-123	1	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	38.7	36.7	77	73	66-103	5	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	42.0	40.4	84	81	66-116	4	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	41.6	40.1	83	80	68-116	4	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	46.8	46.6	94	93	83-115	0	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.5	44.2	91	88	74-113	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	43.6	42.1	87	84	74-129	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	38.9	38.0	78	76	75-117	2	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	41.4	39.3	83	79	67-116	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	45.7	43.6	91	87	71-112	5	
1,3-Dichloropropane	ug/L	<1.0	50	50	43.2	42.6	86	85	74-112	1	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	44.9	43.6	90	87	71-113	3	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Diethylbenzene	ug/L	<1.0	50	50	37.9	36.1	76	72	56-130	5	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	38.0	37.5	76	75	63-133	1	
2-Butanone (MEK)	ug/L	<5.0	50	50	21.7	22.2	43	44	44-162	2	CL,M1
2-Chlorotoluene	ug/L	<1.0	50	50	42.4	40.2	85	80	74-101	5	
2-Hexanone	ug/L	<5.0	50	50	33.1	35.7	66	71	32-183	8	
4-Chlorotoluene	ug/L	<1.0	50	50	42.5	41.3	85	83	74-101	3	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	32.7	33.8	65	68	69-132	3	M1
Acetone	ug/L	<5.0	50	50	23.5	25.0	47	50	23-188	6	CL
Benzene	ug/L	<1.0	50	50	44.7	43.4	89	87	73-119	3	
Bromobenzene	ug/L	<1.0	50	50	51.3	48.8	103	98	72-102	5	M0
Bromochloromethane	ug/L	<1.0	50	50	43.1	42.4	86	85	81-116	2	
Bromodichloromethane	ug/L	<1.0	50	50	49.9	48.6	100	97	78-117	3	
Bromoform	ug/L	<1.0	50	50	53.7	54.9	107	110	65-122	2	
Bromomethane	ug/L	<1.0	50	50	40.0	41.4	80	83	52-147	3	
Carbon disulfide	ug/L	<1.0	50	50	33.4	32.2	67	64	41-144	4	
Carbon tetrachloride	ug/L	<1.0	50	50	60.0	59.3	120	119	59-120	1	CH
Chlorobenzene	ug/L	<1.0	50	50	49.5	49.6	99	99	75-113	0	
Chlorodifluoromethane	ug/L	<1.0	50	50	39.9	39.6	80	79	43-140	1	N3
Chloroethane	ug/L	<1.0	50	50	33.4	32.0	67	64	49-151	4	
Chloroform	ug/L	<1.0	50	50	42.7	41.1	85	82	72-122	4	
Chloromethane	ug/L	<1.0	50	50	30.1	30.3	60	61	46-144	0	CL
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	38.8	38.1	78	76	72-121	2	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	41.0	41.4	82	83	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	52.8	52.5	106	105	70-120	1	
Dibromomethane	ug/L	<1.0	50	50	46.8	46.6	94	93	75-125	0	
Dichlorodifluoromethane	ug/L	<1.0	50	50	67.7	67.4	135	135	22-154	1	
Ethanol	ug/L	<250	1250	1250	462	588	37	47	10-151	24	CL,R1
Ethylbenzene	ug/L	<1.0	50	50	47.9	47.0	96	94	70-113	2	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	48.7	47.5	97	95	59-121	3	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	43.3	41.3	87	83	67-115	5	
m&p-Xylene	ug/L	<2.0	100	100	96.0	95.2	96	95	72-115	1	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	34.6	31.3	69	63	72-131	10	M1
Methylene Chloride	ug/L	<1.0	50	50	31.5	31.1	63	62	61-142	1	
n-Butylbenzene	ug/L	<1.0	50	50	34.6	32.6	69	65	73-107	6	M1
n-Propylbenzene	ug/L	<1.0	50	50	39.0	37.5	78	75	68-116	4	
Naphthalene	ug/L	<1.0	50	50	32.2	35.2	64	70	70-118	9	M1
o-Xylene	ug/L	<1.0	50	50	47.0	45.9	94	92	73-117	2	
p-Isopropyltoluene	ug/L	<1.0	50	50	39.5	37.8	79	76	73-101	4	
sec-Butylbenzene	ug/L	<1.0	50	50	37.1	35.2	74	70	72-103	5	M1
Styrene	ug/L	<1.0	50	50	47.8	47.1	96	94	72-118	1	
tert-Butylbenzene	ug/L	<1.0	50	50	41.6	39.5	83	79	68-100	5	
Tetrachloroethene	ug/L	<1.0	50	50	62.5	60.3	125	121	60-128	4	CH
Toluene	ug/L	<1.0	50	50	47.2	46.1	94	92	72-119	2	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	41.0	36.0	82	72	56-142	13	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	42.8	42.4	86	85	79-116	1	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	34.4	34.1	69	68	71-121	1	M1

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichloroethene	ug/L	<1.0	50	50	53.5	53.2	107	106	69-117	1	
Trichlorofluoromethane	ug/L	<1.0	50	50	52.9	52.2	106	104	27-173	1	
Vinyl chloride	ug/L	<1.0	50	50	33.6	33.6	67	67	43-143	0	CL
Xylene (Total)	ug/L	<3.0	150	150	143	141	95	94	71-109	1	
1,2-Dichloroethane-d4 (S)	%						102	101	68-153		
4-Bromofluorobenzene (S)	%						105	109	79-124		
Toluene-d8 (S)	%						97	99	69-124		

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
R1	RPD value was outside control limits.

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SIGNORE ANNUAL G
Pace Project No.: 7055996

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7055996001	**IRM-1-061918**	EPA 8260C/5030C	73077		
7055996002	**IRM-2I-061918**	EPA 8260C/5030C	73077		
7055996003	**TOWNWELL-061918**	EPA 8260C/5030C	73077		
7055996004	**EW-4.5-061918**	EPA 8260C/5030C	73077		
7055996005	**EW-2.5-061918**	EPA 8260C/5030C	73077		
7055996006	**EW-1.5-061918**	EPA 8260C/5030C	73077		
7055996007	**MW-2I-062018**	EPA 8260C/5030C	73077		
7055996008	**MW-4S-062018**	EPA 8260C/5030C	73077		
7055996009	**MW-5S-062018**	EPA 8260C/5030C	73077		
7055996010	**MW-1I-062018**	EPA 8260C/5030C	73077		
7055996011	**MW-9I-062018**	EPA 8260C/5030C	73077		
7055996012	**GW-DUP-062018**	EPA 8260C/5030C	73077		
7055996013	**TRIP BLANK**	EPA 8260C/5030C	73077		

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WO#:7055996

7055996

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section B — Required Client Information:

Company:	GZA GeoEnvironmental
Address:	~~535 Washington Street~~ 300 Pearl St. Suite 700
Buffalo, NY	~~14203~~ 14202
Email:	thomas.bohlen@gza.com
Phone:	~~NONE~~ 716-844-~~3040~~ 6540
Requested Due Date:	Std.

Section B — Required Project Information:

Report To:	Thomas Bohlen
Copy To:	
Purchase Order #:	Signature Annual GW
Project Name:	~~GROUNWATER SAMPLING~~ Sampling
Project #:	21.0056491.79

Section C — Invoice Information:

Attention:	
~~Company Name:~~	
Address:	
Pace Quote:	
Pace Project Manager:	john.stanton@pacelabs.com,
Pace Profile #:	5780 (1 of 2)

Regulatory Agency	
State / Location	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	
1	IRM-1-061918	WT	G	6/19/18	1015	-	-		2				X						X	X		X Trip Blank included for 8260 analysis 001
2	IRM-2I-061918				1110	-	-															002
3	Townwell-061918				910	-	-															003
4	EW-4.5-061918				1205	-	-															004
5	EW-2.5-061918				1130	-	-															005
6	EW-1.5-061918-MS/MSD				1330	-	-		6													006
7	MW-2I-062018			6/20/18	1325	-	-		2													007
8	MW-4S-062018				1235	-	-															008
9	MW-5S-062018				1020	-	-															009
10	MW-1I-062018				945	-	-															010
11	MW-9I-062018				1155	-	-															011
12	GW-Dup-062018				-	-	-															012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Cat B Reporting & NYSDEC EDD Required	Thomas Bohlen GZA	6/21/18	1650	Pace	6/21/18	16:50				
					6/22/18	10:15	2.2	Y	N	Y

SAMPLER NAME AND SIGNATURE	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:				
SIGNATURE of SAMPLER: / DATE Signed:				

Sample Condition Upon Receipt

Pace Analytical® Long Island Laboratory

WO#: 7055996

PM: CNP Due Date: 06/29/18

CLIENT: GZA

Client Name: GZA **Pro**

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

Tracking #: 8120 8756 5340

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Temperature Blank Present:** ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Ziploc ☐ None ☐ Other **Type of Ice:** (Wet) Blue None

Thermometer Used: TH091 0.0 **Correction Factor:** 0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.2 **Cooler Temperature Corrected (°C):** 2.0 **Date/Time 5035A kits placed in freezer** _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) **Date and Initials of person examining contents:** DL 6/22/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes (KK 6/22/18)	☐ No		3.
Sampler Name & Signature on COC:	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes (KK 6/22/18)	☐ No		10. Sample MW-1T-062018 broke in transit (KK 6/22/18)
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	16. Trip blank logged as last sample. (KK 6/22/18)
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

* **PM (Project Manager) review is documented electronically in LIMS.**

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 20, 2018

Thomas Bohlen
GZA GeoEnvironmental
300 Pearl Street
Buffalo, NY 14202

RE: Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Dear Thomas Bohlen:
Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Sophia Sparkes

Sophia Sparkes for
Caitlin Panzarella
caitlin.panzarella@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Margaret Popek, GZA GeoEnvironmental

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Sample: EW-1.25-062118 **Lab ID: 7055995001** Collected: 06/21/18 11:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 21:49	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 21:49	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 21:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 21:49	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 21:49	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 21:49	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 21:49	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 21:49	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-09-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Sample: EW-1.25-062118 **Lab ID: 7055995001** Collected: 06/21/18 11:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 21:49	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 21:49	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 21:49	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 21:49	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 21:49	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 21:49	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 21:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

QC Batch: 73077 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7055995001

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055995001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Diethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/26/18 17:58	CL
2-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
2-Hexanone	ug/L	<5.0	5.0	06/26/18 17:58	
4-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/26/18 17:58	
Acetone	ug/L	<5.0	5.0	06/26/18 17:58	CL
Benzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromodichloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromoform	ug/L	<1.0	1.0	06/26/18 17:58	
Bromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon disulfide	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon tetrachloride	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	N3
Chloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
Chloroform	ug/L	<1.0	1.0	06/26/18 17:58	
Chloromethane	ug/L	<1.0	1.0	06/26/18 17:58	CL

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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055995001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dichlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Ethanol	ug/L	<250	250	06/26/18 17:58	CL
Ethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	06/26/18 17:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	06/26/18 17:58	
m&p-Xylene	ug/L	<2.0	2.0	06/26/18 17:58	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	06/26/18 17:58	
Methylene Chloride	ug/L	<1.0	1.0	06/26/18 17:58	
n-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
n-Propylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Naphthalene	ug/L	<1.0	1.0	06/26/18 17:58	
o-Xylene	ug/L	<1.0	1.0	06/26/18 17:58	
p-Isopropyltoluene	ug/L	<1.0	1.0	06/26/18 17:58	
sec-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Styrene	ug/L	<1.0	1.0	06/26/18 17:58	
tert-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Tetrachloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Toluene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichlorofluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Vinyl chloride	ug/L	<1.0	1.0	06/26/18 17:58	CL
Xylene (Total)	ug/L	<3.0	3.0	06/26/18 17:58	
1,2-Dichloroethane-d4 (S)	%	105	68-153	06/26/18 17:58	
4-Bromofluorobenzene (S)	%	104	79-124	06/26/18 17:58	
Toluene-d8 (S)	%	95	69-124	06/26/18 17:58	

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	74-113	
1,1,1-Trichloroethane	ug/L	50	55.0	110	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	86	74-121	
1,1,2-Trichloroethane	ug/L	50	48.0	96	80-117	
1,1-Dichloroethane	ug/L	50	40.5	81	83-151	L2
1,1-Dichloroethene	ug/L	50	44.7	89	45-146	
1,1-Dichloropropene	ug/L	50	49.8	100	59-127	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	67-103	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	50.0	100	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	41.0	82	66-103	N3
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	66-116	
1,2,4-Trimethylbenzene	ug/L	50	44.2	88	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	83-115	
1,2-Dichlorobenzene	ug/L	50	48.8	98	74-113	
1,2-Dichloroethane	ug/L	50	48.1	96	74-129	
1,2-Dichloropropane	ug/L	50	42.2	84	75-117	
1,3,5-Trimethylbenzene	ug/L	50	43.9	88	67-116	
1,3-Dichlorobenzene	ug/L	50	47.9	96	71-112	
1,3-Dichloropropane	ug/L	50	47.6	95	74-112	
1,4-Dichlorobenzene	ug/L	50	48.0	96	71-113	
1,4-Diethylbenzene	ug/L	50	39.1	78	56-130	N3
2,2-Dichloropropane	ug/L	50	42.5	85	63-133	
2-Butanone (MEK)	ug/L	50	33.7	67	44-162	CL
2-Chlorotoluene	ug/L	50	44.8	90	74-101	
2-Hexanone	ug/L	50	47.9	96	32-183	
4-Chlorotoluene	ug/L	50	45.6	91	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.1	90	69-132	
Acetone	ug/L	50	40.3	81	23-188	CL
Benzene	ug/L	50	45.7	91	73-119	
Bromobenzene	ug/L	50	52.4	105	72-102	L1
Bromochloromethane	ug/L	50	46.8	94	81-116	
Bromodichloromethane	ug/L	50	51.8	104	78-117	
Bromoform	ug/L	50	59.7	119	65-122	
Bromomethane	ug/L	50	42.5	85	52-147	
Carbon disulfide	ug/L	50	39.5	79	41-144	
Carbon tetrachloride	ug/L	50	56.8	114	59-120	CH
Chlorobenzene	ug/L	50	49.9	100	75-113	
Chlorodifluoromethane	ug/L	50	38.3	77	43-140	N3
Chloroethane	ug/L	50	36.5	73	49-151	
Chloroform	ug/L	50	44.6	89	72-122	
Chloromethane	ug/L	50	32.4	65	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	41.6	83	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.7	91	78-116	
Dibromochloromethane	ug/L	50	54.4	109	70-120	
Dibromomethane	ug/L	50	50.7	101	75-125	
Dichlorodifluoromethane	ug/L	50	50.5	101	22-154	
Ethanol	ug/L	1250	962	77	10-151	CL
Ethylbenzene	ug/L	50	47.7	95	70-113	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	59-121	
Isopropylbenzene (Cumene)	ug/L	50	45.4	91	67-115	
m&p-Xylene	ug/L	100	97.6	98	72-115	
Methyl-tert-butyl ether	ug/L	50	44.1	88	72-131	
Methylene Chloride	ug/L	50	42.9	86	61-142	
n-Butylbenzene	ug/L	50	37.7	75	73-107	
n-Propylbenzene	ug/L	50	42.1	84	68-116	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	43.9	88	70-118	
o-Xylene	ug/L	50	47.6	95	73-117	
p-Isopropyltoluene	ug/L	50	41.4	83	73-101	
sec-Butylbenzene	ug/L	50	38.9	78	72-103	
Styrene	ug/L	50	48.9	98	72-118	
tert-Butylbenzene	ug/L	50	43.0	86	68-100	
Tetrachloroethene	ug/L	50	58.4	117	60-128	CH
Toluene	ug/L	50	48.5	97	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	56-142	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	44.7	89	71-121	
Trichloroethene	ug/L	50	53.1	106	69-117	
Trichlorofluoromethane	ug/L	50	55.0	110	27-173	
Vinyl chloride	ug/L	50	33.9	68	43-143	CL
Xylene (Total)	ug/L	150	145	97	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			95	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	53.0	51.9	106	104	74-113	2	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.9	55.8	116	112	65-118	4	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	35.0	34.6	70	69	74-121	1	M1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	41.8	41.5	84	83	80-117	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	36.7	36.3	73	73	83-151	1	M0
1,1-Dichloroethene	ug/L	<1.0	50	50	38.7	36.6	77	73	45-146	6	
1,1-Dichloropropene	ug/L	<1.0	50	50	50.4	48.4	101	97	59-127	4	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	37.0	39.1	74	78	67-103	6	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	40.8	40.5	82	81	71-123	1	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	38.7	36.7	77	73	66-103	5	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	42.0	40.4	84	81	66-116	4	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	41.6	40.1	83	80	68-116	4	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	46.8	46.6	94	93	83-115	0	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.5	44.2	91	88	74-113	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	43.6	42.1	87	84	74-129	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	38.9	38.0	78	76	75-117	2	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	41.4	39.3	83	79	67-116	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	45.7	43.6	91	87	71-112	5	
1,3-Dichloropropane	ug/L	<1.0	50	50	43.2	42.6	86	85	74-112	1	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	44.9	43.6	90	87	71-113	3	
1,4-Diethylbenzene	ug/L	<1.0	50	50	37.9	36.1	76	72	56-130	5	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	38.0	37.5	76	75	63-133	1	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2-Butanone (MEK)	ug/L	<5.0	50	50	21.7	22.2	43	44	44-162	2	CL,M1
2-Chlorotoluene	ug/L	<1.0	50	50	42.4	40.2	85	80	74-101	5	
2-Hexanone	ug/L	<5.0	50	50	33.1	35.7	66	71	32-183	8	
4-Chlorotoluene	ug/L	<1.0	50	50	42.5	41.3	85	83	74-101	3	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	32.7	33.8	65	68	69-132	3	M1
Acetone	ug/L	<5.0	50	50	23.5	25.0	47	50	23-188	6	CL
Benzene	ug/L	<1.0	50	50	44.7	43.4	89	87	73-119	3	
Bromobenzene	ug/L	<1.0	50	50	51.3	48.8	103	98	72-102	5	M0
Bromochloromethane	ug/L	<1.0	50	50	43.1	42.4	86	85	81-116	2	
Bromodichloromethane	ug/L	<1.0	50	50	49.9	48.6	100	97	78-117	3	
Bromoform	ug/L	<1.0	50	50	53.7	54.9	107	110	65-122	2	
Bromomethane	ug/L	<1.0	50	50	40.0	41.4	80	83	52-147	3	
Carbon disulfide	ug/L	<1.0	50	50	33.4	32.2	67	64	41-144	4	
Carbon tetrachloride	ug/L	<1.0	50	50	60.0	59.3	120	119	59-120	1	CH
Chlorobenzene	ug/L	<1.0	50	50	49.5	49.6	99	99	75-113	0	
Chlorodifluoromethane	ug/L	<1.0	50	50	39.9	39.6	80	79	43-140	1	N3
Chloroethane	ug/L	<1.0	50	50	33.4	32.0	67	64	49-151	4	
Chloroform	ug/L	<1.0	50	50	42.7	41.1	85	82	72-122	4	
Chloromethane	ug/L	<1.0	50	50	30.1	30.3	60	61	46-144	0	CL
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	38.8	38.1	78	76	72-121	2	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	41.0	41.4	82	83	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	52.8	52.5	106	105	70-120	1	
Dibromomethane	ug/L	<1.0	50	50	46.8	46.6	94	93	75-125	0	
Dichlorodifluoromethane	ug/L	<1.0	50	50	67.7	67.4	135	135	22-154	1	
Ethanol	ug/L	<250	1250	1250	462	588	37	47	10-151	24	CL,R1
Ethylbenzene	ug/L	<1.0	50	50	47.9	47.0	96	94	70-113	2	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	48.7	47.5	97	95	59-121	3	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	43.3	41.3	87	83	67-115	5	
m&p-Xylene	ug/L	<2.0	100	100	96.0	95.2	96	95	72-115	1	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	34.6	31.3	69	63	72-131	10	M1
Methylene Chloride	ug/L	<1.0	50	50	31.5	31.1	63	62	61-142	1	
n-Butylbenzene	ug/L	<1.0	50	50	34.6	32.6	69	65	73-107	6	M1
n-Propylbenzene	ug/L	<1.0	50	50	39.0	37.5	78	75	68-116	4	
Naphthalene	ug/L	<1.0	50	50	32.2	35.2	64	70	70-118	9	M1
o-Xylene	ug/L	<1.0	50	50	47.0	45.9	94	92	73-117	2	
p-Isopropyltoluene	ug/L	<1.0	50	50	39.5	37.8	79	76	73-101	4	
sec-Butylbenzene	ug/L	<1.0	50	50	37.1	35.2	74	70	72-103	5	M1
Styrene	ug/L	<1.0	50	50	47.8	47.1	96	94	72-118	1	
tert-Butylbenzene	ug/L	<1.0	50	50	41.6	39.5	83	79	68-100	5	
Tetrachloroethene	ug/L	<1.0	50	50	62.5	60.3	125	121	60-128	4	CH
Toluene	ug/L	<1.0	50	50	47.2	46.1	94	92	72-119	2	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	41.0	36.0	82	72	56-142	13	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	42.8	42.4	86	85	79-116	1	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	34.4	34.1	69	68	71-121	1	M1
Trichloroethene	ug/L	<1.0	50	50	53.5	53.2	107	106	69-117	1	
Trichlorofluoromethane	ug/L	<1.0	50	50	52.9	52.2	106	104	27-173	1	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Vinyl chloride	ug/L	<1.0	50	50	33.6	33.6	67	67	43-143	0	CL
Xylene (Total)	ug/L	<3.0	150	150	143	141	95	94	71-109	1	
1,2-Dichloroethane-d4 (S)	%						102	101	68-153		
4-Bromofluorobenzene (S)	%						105	109	79-124		
Toluene-d8 (S)	%						97	99	69-124		

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7055995001	**EW-1.25-062118**	EPA 8260C/5030C	73077		

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WO#: 7055995

7055995

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2252483

Section A Required Client Information:

Company:	GZA
Address:	300 Pearl St. Suite 700
	Buffalo, NY 14202
Email To:	thomas.bohlen@gza.com
Phone: 716 844-7050	Fax:
Requested Due Date/TAT:	std.

Section B Required Project Information:

Report To:	Thomas Bohlen
Copy To:	
Purchase Order No.:	
Project Name:	Sigmore Annual GW Sampling
Project Number:	21.0056491.79

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	~~John Stanton~~
Pace Profile #:	5780 LI #6

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 TCL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EW-1.25-062118	WT	G	6/21/18	1620	-	-		2				X						X		001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Cat B Reporting & NYSDEC EDA Required	Thomas Bohlen/GZA	6/21/18	1650	PACE	6/21/18	16:50				
					6/22/18	10:15	2.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: GZA

Proj WO#:7055995

PM: CNP Due Date: 06/29/18
CLIENT: GZA

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

Tracking #: 8120 8756 5340

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Ziploc ☐ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 0.0 **Correction Factor:** 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.2 **Cooler Temperature Corrected (°C):** 2.0 **Date/Time 5035A kits placed in freezer** _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) **Date and Initials of person examining contents:** DL 6/22/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☐ Yes	☑ No		3.
Sampler Name & Signature on COC:	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	16.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable): _____				

6/22/18

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

GZA GeoEnvironmental, Inc.

Proactive by Design

JUNE 2018
POST-INJECTION GROUNDWATER MONITORING DATA REPORT
Former Signore Inc.
55-57 Jefferson Street
Ellicottville, New York 14731

August 27, 2018
File No. 21.0056367.64

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

32 Offices Nationwide
www.gza.com

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CONSTRUCTION MANAGEMENT

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

August 27, 2018
File No. 21.0056367.64

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

Re: June 2018 Post-Injection Groundwater Monitoring Data Report
Former Signore, Inc.
55-57 Jefferson Street
Ellicottville, New York 14731 (Site)
NYSDEC Site No. C905034

Dear David:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this post-injection groundwater monitoring data report to Iskalo Ellicottville Holdings LLC (Client). This report presents the analytical results of a sampling event conducted on June 21, 2018 at the above referenced Site. The post-injection groundwater monitoring was conducted as required by the New York State Department of Environmental Conservation (NYSDEC), as specified in the Decision Document for Brownfield Cleanup Program (BCP) Site No. C905034 (July 2015). The post-injection monitoring was conducted in conjunction with the annual groundwater monitoring of 12 other wells that has been performed since 1992 as required by NYSDEC and specified in the Record of Decision (ROD) dated January 1992.

Details of the remedial injection program and the first (August 2015) round of post-injection monitoring were provided in the Final Engineering Report for the Site (October 2015). Per the Site Management Plan (SMP), post-injection groundwater monitoring was conducted semi-annually, with the July 2017 sampling event being the fifth post-injection monitoring event. The body of data collected since remedial injections indicated that reductive dechlorination was continuing to reduce the chlorinated volatile organic compound (cVOC) concentrations as intended and that a slow and steady overall trend of cVOC reduction has been established.

Considering the above findings and the rate of cVOC reduction observed, NYSDEC approved modification of the SMP to allow for a reduced frequency of post-injection groundwater monitoring from semi-annual to annual in fall 2017.

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 analytical results of the groundwater sampling provide useful information for documentation of concentrations of cVOCs present in the on-Site groundwater. Groundwater cVOC concentrations measured at 35 months post-OCEDS injection (June 2018) follow trends typical for this stage of enhanced reductive dechlorination. As cVOC concentrations decline, biodegradation typically slows down due to less contact between cVOCs and dechlorination bacteria. Also, as PCE and TCE concentrations approach class GA criteria (i.e., PCE and TCE concentrations become a few micrograms per liter (µg/L)), concentrations of their degradation products DCE and VC are likely to be below laboratory detection limits. Although groundwater biogeochemical conditions at the Site are generally less conducive to reductive dechlorination, DCE is above laboratory detection limits in monitoring wells that still contain measurable PCE and/or TCE concentrations. With the exception of EW-1.25, located downgradient of the OCEDC injection area and containing significant sediment, as described below, TOC concentrations are lower than they were at 24 months post-OCEDS injection. This is expected, as the OCEDS additive, by design, provides organic carbon for indigenous bacteria to consume while reducing electron acceptors that compete with cVOCs. Biomass generated by bacterial growth cycles provides a sustainable source of organic carbon, helping to maintain reductive dechlorination at the soil-porewater interface as the injected OCEDS is consumed. In GZA's opinion, groundwater concentrations of cVOCs will continue to decline over time. Monitoring will continue to document the dechlorination process.

Significant sedimentation has occurred at EW-1.25 and has buried the entire screened interval. Groundwater collected from this well may not be representative of groundwater from the formation. GZA notes this well is a key location for evaluating the site remedy, as it is located immediately downgradient of the injection area and has demonstrated effective reductive dechlorination. It is unknown if the significant decrease in mass concentrations at EW-1.25 observed during this June 2018 sampling event is due to the implemented site remedy, or if the accumulated sediment has impacted the functionality of EW-1.25 and hence the representativeness of the sample. GZA recommends a round of site-wide well bottom soundings and subsequent re-development of wells containing significant sediment prior to the next scheduled sampling event. The well re-development should be conducted via water-jetting using rigid tremie piping and an appropriate pump to flush the accumulated hard sediment.

As stated above, when cVOC concentrations decline, contact between cVOCs, electron donor, and dechlorination bacteria (*e.g.*, *Dehalococcoides, Dehalobacter,* and *Desulfitobacterium* species) is less frequent, leading to slower rates of cVOC degradation. Biogeochemical analyses become less relevant indicators at slower rates of cVOC attenuation.

We recommend revising the monitoring program as described below:

- Continue to measure field indicators (temperature, specific conductivity, dissolved oxygen, oxidation-reduction potential, pH, and turbidity), in addition to cVOCs, at all wells being monitored.
- EW-1.25: Following re-development of this monitoring well, analyze for dissolved iron and manganese, methane/ethane/ethene, total organic carbon, chloride, nitrate, and sulfate. When PCE and TCE concentrations are each less than 10 µg/L, switch to measurement of field indicators only, in addition to cVOCs.
- SP-32, SP-38, and SP-43: CVOCs in these monitoring wells were non-detect in June 2018, with the exception of 5.8 µg/L TCE in SP-38, and 7.4 µg/L PCE in SP-43. In the future, we recommend measuring only cVOCs and field indicators at these locations.
- SP-37: This monitoring well is outside the influence of the area where OCEDS was injected to enhance natural attenuation. Natural attenuation is proceeding, but slowly, at this location. We recommend, in addition to cVOCs and field indicators, continuing to analyze for total organic carbon and sulfate in SP-37 until PCE and TCE concentrations are each less than 10 µg/L. Dissolved iron and manganese, methane/ethane/ethene,

chloride, and nitrate are less relevant as indicators of continuing cVOC degradation at the low cVOC concentrations seen at this location (13.2 µg/L PCE and 10.9 µg/L TCE in June 2018).

- SP-45: We recommend, in addition to cVOCs and field indicators, continuing to analyze for total organic carbon and sulfate in SP-45 until PCE and TCE concentrations are each less than 10 µg/L. Dissolved iron and manganese, methane/ethane/ethene, chloride, and nitrate are less relevant as indicators of continuing cVOC degradation at the low cVOC concentrations seen at this location (18.7 µg/L PCE and 5.4 µg/L TCE in June 2018).

The next post-injection groundwater monitoring event is anticipated to occur in June 2019. If results from the 2019 sampling event are consistent with current trends, GZA will recommend petitioning NYSDEC to modify the SMP to cease the post-injection groundwater sampling schedule. In that scenario, GZA would also recommend reducing the concurrent annual sampling to a biennial frequency.

Should you have any questions or require additional information following your review, please contact Tom Bohlen at 716-844-7050.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen, P.G.
Project Manager

Karen Kinsella, Ph.D.
Senior Technical Specialist

James J. Richert, P.G.
Senior Project Manager

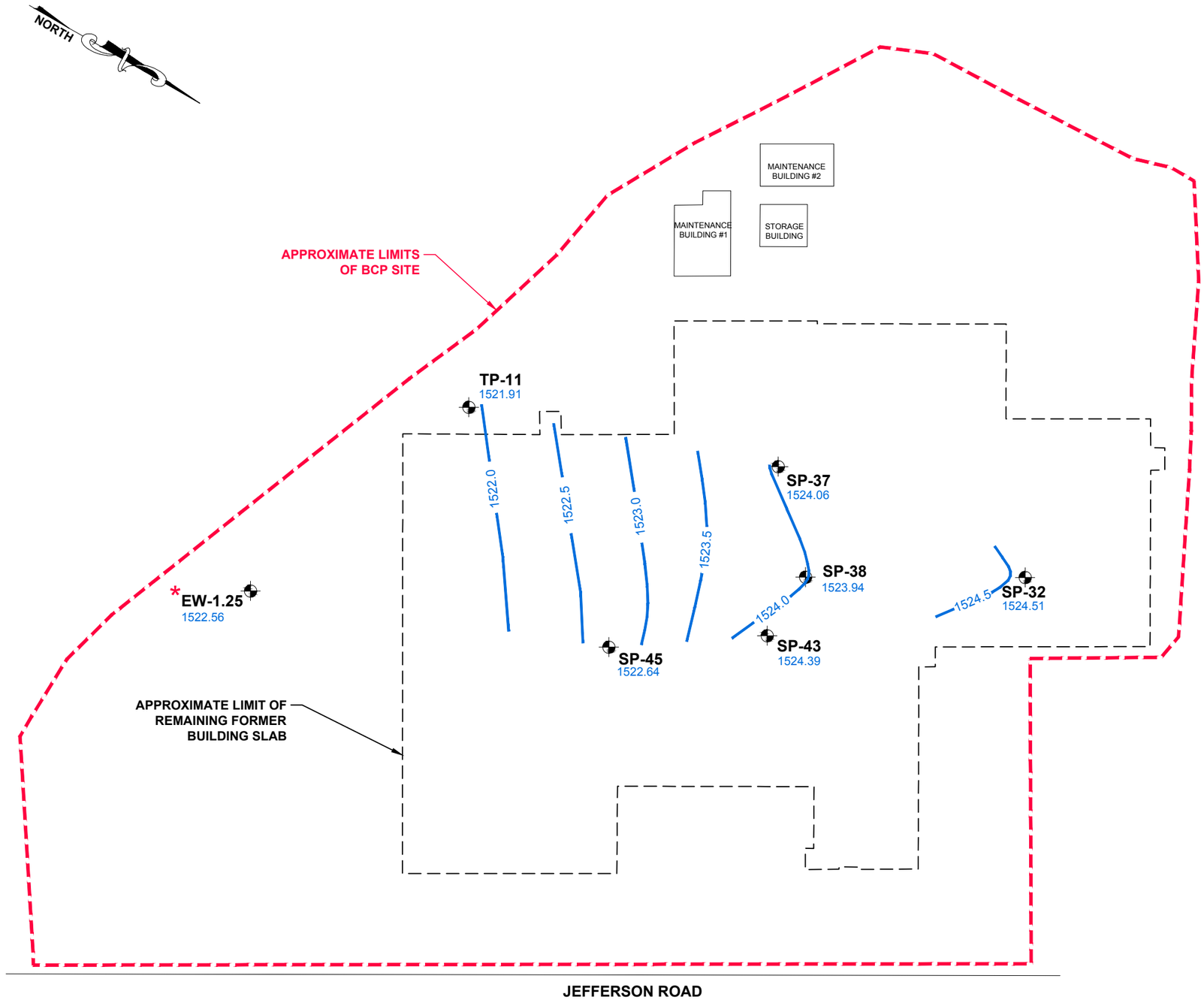
Bart A. Klettke, P.E.
Principal

cc: Jaspal Walia, P.E., NYSDEC
Chad Staniszewski, P.E., NYSDEC

ATTACHMENTS

FIGURE 1	MICROWELL GROUNDWATER ELEVATION CONTOUR PLAN
FIGURE 2	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 1524.06 — APPROXIMATE LOCATION AND DESIGNATION OF 1" MICROWELL.GROUNDWATER ELEVATION MEASURED ON JUNE 21, 2018.

1524.5 — APPROXIMATE LOCATION AND ELEVATION OF GROUNDWATER CONTOUR LINE BASED ON MEASUREMENTS TAKEN ON JUNE 21, 2018.

* 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

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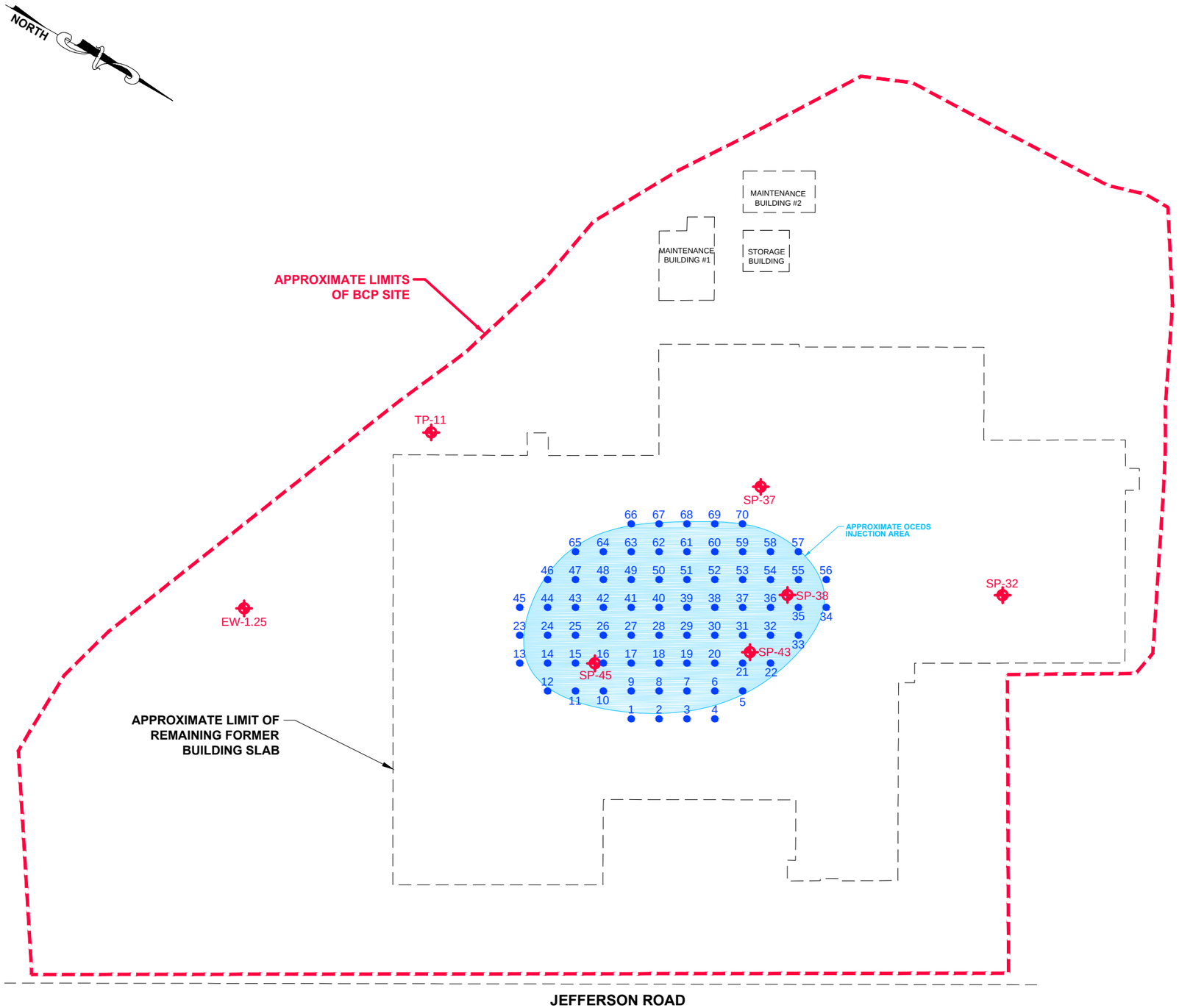
FORMER SIGNORE FACILITY
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

JUNE 2018 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: JR	CHECKED BY: BAK	FIGURE 1
DESIGNED BY: TB	DRAWN BY: TAK	SCALE: 1" = 80'	
DATE: AUGUST 2018	PROJECT NO. 21.0056367.64	REVISION NO.	

©2018 – GZA GeoEnvironmental of New York GZA-K:\PROJECTS\56300s\56367.64 Signor Ellicottville Post Injection\Figure 1.dwg [Figure 1] August 27, 2018 - 11:23am 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. BASE MAP ADAPTED FROM A 2006 AERIAL PHOTOGRAPH DOWNLOADED FROM www.cattco.org/real_property/parcel_ news.asp AND FIELD OBSERVATIONS.

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

0 40 80 160

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

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

JUNE 2018 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: JR	CHECKED BY: BAK	FIGURE 2
DESIGNED BY: TB	DRAWN BY: TAK	SCALE: 1" = 60'	
DATE: AUGUST 2018	PROJECT NO. 21.0056367.64	REVISION NO.	

©2017 – GZA GeoEnvironmental of New York G:\ZA-K:\PROJECTS\56300s\56367.64 Signor Ellicottville Post Injection\Figure 2.dwg [Figure 2] July 26, 2018 - 9:28am 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: 21.0056367.64

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**	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	1533.52	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
7.14	5.93	0.133	18.6	5.02	Clear

Notes:

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	Good	pH	+/- 0.1	Sample ID: SP-32-062118
		Conductivity	+/- 3%	Sample Time: 735
Interior Observations	Good	Temperature	+/- 10%	# of Sample Containers: 3 7
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:		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
6/21/18	705	9.30	0	7.39	0.148	13.3	38.3	Clear	1.93	166.7	Depth of Water: 9.01
	710		0.1	6.55	0.146	13.3	16.8		1.15	183.7	Length of Water Column:
	715		0.2	6.06	0.144	13.1	2.10		0.80	193.5	Depth of Well:
	725		0.3	5.97	0.144	13.2	2.6		0.76	181.2	Sheen Observed: Y (N)
	730		0.4	5.96	0.144	13.2	2.8		0.76	181.2	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.64

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 Elevatior	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		Parameters +/-		Sampling Information
Exterior Observations:	Good	pH	+/- 0.1	Sample ID: SP-37-06211A
		Conductivity	+/- 3%	Sample Time: 815
Interior Observations	Good	Temperature	+/- 10%	# of Sample Containers: 3 7
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:		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
6/21/18	755	9.32	0	6.48	0.195	12.8	20.8	clear	3.85	181.7	Depth of Water: 9.30
	800		0.2	6.00	0.185	12.2	1.3	"	2.57	182.3	Length of Water Column:
	805		0.3	5.95	0.184	12.1	1.0	"	2.54	180.5	Depth of Well:
	810		0.5	5.94	0.184	12.1	0.9	"	2.53	180.1	Sheen Observed: Y (N)
											DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.64

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 Elevation	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-38-062118
				Conductivity	+/- 3%	Sample Time: 900
Interior Observations	Good			Temperature	+/- 10%	# of Sample Containers: 3 7
				Turbidity	+/- 10%	Duplicate Sample ID: NA
				ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:				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
6/21/18	837	9.62	0	6.67	0.388	13.4	73.5	Brown	4.93	179.9	Depth of Water: 9.58
	842		0.1	6.65	0.400	12.0	54.J	Clear	3.11	170.4	Length of Water Column:
	847		0.2	6.58	0.403	11.7	31.1	↓	2.33	159.6	Depth of Well:
	852		0.3	6.56	0.404	11.6	24.6		2.1J	151.5	Sheen Observed: Y (N)
	857		0.4	6.56	0.404	11.7	21.5		2.11	150.8	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:
											Dark Brown flecks in purge water & sample

File: 21.0056367.64

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 Elevation	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	Parameters +/-		Sampling Information
Exterior Observations:	pH	+/- 0.1	Sample ID: SP-43-062118
	Conductivity	+/- 3%	Sample Time: 950
Interior Observations	Temperature	+/- 10%	# of Sample Containers: ~~2~~ 7
	Turbidity	+/- 10%	Duplicate Sample ID: NA
	ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:	DO	+/- 10%	MNA PARAMETERS

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

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
6/21/18	920	10.01	0	6.95	0.157	16.2	23.6	clear	3.30	158.5	Depth of Water: 9.03
	926		0.1	6.37	0.153	15.9	3.2		1.99	162.7	Length of Water Column:
	931		0.2	6.22	0.152	15.5	1.6		1.81	162.1	Depth of Well:
	936		0.3	6.16	0.151	15.5	1.4		1.77	160.3	Sheen Observed: Y (N)
	941		0.4	6.11	0.151	15.6	2.1		1.74	156.8	DNAPL Observed: Y (N)
	946		0.5	6.11	0.151	15.6	1.8		1.73	156.6	Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.64

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:

Parameters +/-		Sampling Information
pH	+/- 0.1	Sample ID: SP-45-062118
Conductivity	+/- 3%	Sample Time: 1030
Temperature	+/- 10%	# of Sample Containers: 7
Turbidity	+/- 10%	Duplicate Sample ID: NA
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
6/21/18	1007	10.81	0	6.56	0.401	14.3	179.0	Lt Brn	3.67	168.2	Depth of Water: 10.39
	1011	"	0.3	6.86	0.388	13.7	70.6	↓	4.24	126.8	Length of Water Column:
	1016	"	0.3	6.84	0.387	13.3	16.9	Clear	3.01	119.7	Depth of Well:
	1021	"	0.5	6.89	0.391	13.3	5.7	↓	2.73	89.5	Sheen Observed: Y (N)
	1026	↓	0.7	6.89	0.391	13.3	5.5	↓	2.72	86.2	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.64

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**	Ground Surface Elevation:	Riser/Screen Material: PVC
Installation Date:		Protective Casing Elevation:	Top of Screen Depth:
Installed By:	Trec Environmental	Monitoring Point Elevation: 1532.98 ft.	Bottom of Screen Depth:
		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
9.42	6.69	0.393	16.7	4.97	Clear

Notes:

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	Good	pH	+/- 0.1	Sample ID: TP-11
	~10' E of manhole near site access	Conductivity	+/- 3%	Sample Time: 1110
Interior Observations	road	Temperature	+/- 10%	# of Sample Containers:
		Turbidity	+/- 10%	Duplicate Sample ID:
		ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:		DO	+/- 10%	

Locked (yes/no)	Well Cap (yes/no)	Surface Seal Intact (yes/no)	PID Measurement:	Odors:

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
6/20/18	1044	11.10	0	7.07	0.462	10.0	69.3	Clear	5.65	103.0	Depth of Water: 11.07
	1049		0.1	6.93	0.461	9.6	8.7		4.96	105.9	Length of Water Column:
	1054		0.2	6.85	0.464	9.5	0.8		4.97	109.5	Depth of Well:
	1059		0.4	6.81	0.464	9.5	0.2		4.83	111.0	Sheen Observed: Y (N)
	1104		0.6	6.81	0.464	9.5	0.3		4.83	110.7	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

File: 21.0056367.64

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-1.25**	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				Parameters +/-		Sampling Information
Exterior Observations:	Road box flooded			pH	+/- 0.1	Sample ID: EW-1.25
				Conductivity	+/- 3%	Sample Time: 1120
Interior Observations	Good			Temperature	+/- 10%	# of Sample Containers: 7
				Turbidity	+/- 10%	Duplicate Sample ID: NA
				ORP	+/- 10mV	Sample Analysis: VOCs 8260
Signs of Damage/Tampering:				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
* 6/20/18	1052	9.56	0	6.31	0.673	12.6	503.5	Lt Brn	0.97	-75.4	Depth of Water: 9.40
	1101	9.85	0.1	6.19	0.658	12.7	70.1	↓	0.92	-56.5	Length of Water Column:
	1106	10.01	0.2	6.15	0.638	12.2	31.0	clear	0.70	-55.5	Depth of Well: 14.79
	1111	10.15	0.3	6.13	0.631	12.2	20.7	↓	0.65	-54.0	Sheen Observed: (Y) N
	1116	10.31	0.4	6.12	0.629	12.1	21.5	↓	0.65	-54.1	DNAPL Observed: Y (N)
											Did Well Go Dry: Y (N)
											Other:

GZA GeoEnvironmental of New York

* emptied flow through cell

ATTACHMENT C

GROUNDWATER ANALYTICAL RESULTS SUMMARY

Attachment C
June 2018 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
Volatile Organic Compounds - EPA Method SW-846, 8260B (ug/L)																					
Acetone	50	<		<		<		<		<		3.8	J	2.3	J	<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		1.8		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	4.1		4.1		2.9		3		2.6		4.2		2.9		3.9		3.0		<	
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		<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	31		32		23		29		28		44		28		98		57		<	
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	2	94.77		103.9		72.9		81.85		75.01		115.46		86.74		110.74		97.19			
Field Parameters																					
Temperature (Deg. C)	NV	13		13.5		10.4		9.1		13.1		13.4		12.4		13		14.9		12.1	
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	
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	
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	
pH (std. units)	NV	7.35		6.85		6.78		6.73		6.77		6.89		6.79		6.87		6.77		6.12	
Turbidity (NTUs)	NV	9.12		3.31		11.71		7.7		14.2		10.7		20.1		11.87		13.13		21.5	
Inorganics (ug/L)																					
Iron	300	NS		1,000		14,000		14,000		11,500		11,900		27,300		10,500		<		27,000	M1
Manganese	NV	NS		1,300		1,600		1,482		1,265		1,465		1,453		1,354		1,256		3,060	
Miscellaneous Water Quality Parameters																					
Methane (ug/L)	NV	NS		1,000		170		237		218		190		244		130		130		NT	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		<		NT	
Ethene (ug/L)	NV	NS		1.7		<		<		0.535		<		0.558		0.55		0.55		NT	
Total Organic Carbon (mg/L)	NV	NS		<		<		2.07		2.47		1.92		2.26		1.56		1.84		21.0	
Chloride (mg/L)	NV	NS		66	B	69		62		57		56		49		45		47		48.2	M1
Nitrate (mg/L)	NV	NS		<		<		0.015	J	0.020	J	<		<		0.029	J	<		<	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS		NS		<	
Sulfate (mg/L)	NV	NS		7.6		7.4	B	12.8		10.3		10.5		10.2		11.7		8.86		<	

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
June 2018 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
Volatile Organic Compounds - EPA Method SW-84																					
Acetone	50	<		240	D	<		<		<		<		2.8	J	<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<	
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		<		<		<	
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	<	
Trichloroethene	5	120		3.4		6.4		5.8		6.5		6.7		14		1.2		0.85		4.4	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Total VOCs	2	122.1		314.4		17.4		10.73		11.89		10.02		20.54		1.62		1.17		4.4	
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	
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	
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	
Oxygen Reduction Potential (mv)	NV	50.3		-95.3		-21.9		104.4		57.7		169.9		236.7		153		41.9		181.2	
pH (std. units)	NV	7.23		6.45		6.48		6.28		6.34		6.25		6.22		6.0		5.9		5.96	
Turbidity (NTUs)	NV	35		6.76		4.95		0.6		7.15		4.42		7.6		4.96		5.02		2.8	
Inorganics (ug/L)																					
Iron	300	NS		3,480		16,000		339		246		206		541		66		<		<	
Manganese	NV	NS		24,600		19,000		6,468		8,331		2,897		2,668		1,144		12		<	
Miscellaneous Water Quality Parameters																					
Methane (ug/L)	NV	NS		120		660		725		932		208		205		3.31		0.55	J	<	
Ethane (ug/L)	NV	NS		<		<		0.659		0.841		<		<		<		<		<	
Ethene (ug/L)	NV	NS		1.7		<		<		<		<		<		<		<		<	
Total Organic Carbon (mg/L)	NV	NS		51		<		1.35		1.7		1.02		1.45		0.87		1.08		<	
Chloride (mg/L)	NV	NS		5	B	3.1		3.46		3.12		2.83		2.72		1.59		0.861		<	
Nitrate (mg/L)	NV	NS		<		<		1.92		0.93		4.2		3.9		4.8		1.4		1	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS		NS		<	
Sulfate (mg/L)	NV	NS		4.9	J	14	B	14.6		16.8		16.1		16.3		14.4		13.8		15.9	

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
June 2018 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
Volatile Organic Compounds - EPA Method SW-84																					
Acetone	50	<		<		<		<		<		<		2.6	J	<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<	
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	
Toluene	5	<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		<		<		<	
Tetrachloroethene	5	9.6		24		13		18		15		26		14		17		12		13.2	
Trichloroethene	5	13		20		7.2		10		11		19		13		14		7.8		10.9	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Total VOCs	2	24.4		51.3		27.2		31.4		36.72		54.61		36.72		43		22.5		26	
Field Parameters																					
Temperature (Deg. C)	NV	13.5		17		11.9		10		17		15.3		13.3		14.2		18.4		12.1	
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	
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	
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	
pH (std. units)	NV	6.6		6.39		6.28		6.12		6.28		6.3		6.03		5.99		6.08		5.94	
Turbidity (NTUs)	NV	2.5		9.35		12.5		1.4		5.27		2.3		5.93		5.02		10.37		0.9	
Inorganics (ug/L)																					
Iron	300	NS		61.7	B	900		81.4		409		66		85		56		<		<	
Manganese	NV	NS		336		150		1,021		6,015		2,035		1,137		1,445		73		<	
Miscellaneous Water Quality Parameters																					
Methane (ug/L)	NV	NS		26		2.5		28		108		67.4		47.2		<		<		<	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		<		<	
Ethene (ug/L)	NV	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
Chloride (mg/L)	NV	NS		12	B	3.8		28.8		16.4		14.7		7.11		5.79		2.64		2.4	
Nitrate (mg/L)	NV	NS		4.8		5.2		2.98		0.04		0.27		1.40		3.20		1.30		0.79	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS		NS		<	
Sulfate (mg/L)	NV	NS		36		24	B	23.3		18		21.1		18.3		21		14.3		13.9	

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Attachment C
June 2018 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
Volatile Organic Compounds - EPA Method SW-84																			
Acetone	50	<		<		<		<		<		1.6	J	<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<	
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		<	
2-Butanone	50	<		<		<		26		2.1	J	<		<		<		<	
cis-1,2-Dichloroethene	5	<		1.5		1.2		46		0.82	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	<	
Trichloroethene	5	17		7.8		19		0.45	J	0.29	J	5.5	J	8.2		6.5		5.8	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<	
Total VOCs	2	24.4		9.3		25.4		77.33		30.38		7.77		12.68		10.9		5.8	
Field Parameters																			
Temperature (Deg. C)	NV	13.1		15.2		11.6		15.2		15.1		16.1		14.8		16.7		11.7	
Specific Conductance (mS/cm)	NV	0.437		0.412		0.437		1.03		0.69		0.419		0.443		0.416		0.404	
Dissolved Oxygen (mg/L)	NV	3.25		2.88		4.65		0.07		0.11		1.32		0.23		0.72		2.11	
Oxygen Reduction Potential (mv)	NV	31.7		103.5		136		-124.2		-172.7		241.8		-22.5		-79.6		150.8	
pH (std. units)	NV	6.81		6.72		6.72		7.1		7.39		6.59		6.75		6.85		6.56	
Turbidity (NTUs)	NV	27.4		2.12		19.2		12.3		2.12		6.39		7.69		5.88		21.5	
Inorganics (ug/L)																			
Iron	300	<		<		1,500		5,660		3,040		352		811		<		<	
Manganese	NV	5,100		41.1	B	180		24,820		12,680		2762		9031		1,827		23	
Miscellaneous Water Quality Parameters																			
Methane (ug/L)	NV	<		20		1.1		807.0		636.0		3.9		13.7		10.1		4.4	
Ethane (ug/L)	NV	NM		<		<		<		2.57		<		0.633		<		<	
Ethene (ug/L)	NV	NM		<		<		3.45		4.56		<		2.04		0.652		<	
Total Organic Carbon (mg/L)	NV	<		<		<		86.9		2.22		1.21		1.32		1.05		<	
Chloride (mg/L)	NV	31		40	B	34		29		27.1		36.1		27.7		22.6		32	
Nitrate (mg/L)	NV	4.7		1.4		3.3		0.0	J	<		0.6		0.24		0.24		0.37	
Nitrite (mg/L)	NV					<		<		NS		NS		NS		NS		<	
Sulfate (mg/L)	NV	23		11		13	B	0.063	J	5.99		11.5		16.1		13.8		11.7	

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Attachment C
June 2018 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
Volatile Organic Compounds - EPA Method SW-84																					
Acetone	50	<		53		<		<		<		<		1.9	J	<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		1.3		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		0.48	J	6.6		<		<		<		<	
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	<		<	
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
Trichloroethene	5	5.2		2.6		<		0.72		2.20		8.30		0.71		0.70		0.24	J	<	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Total VOCs	2	98.2		170.3		17.9		15.82		43.08		125.10		14.91		13.80		7.14		7.40	
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	
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	
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	
Oxygen Reduction Potential (mv)	NV	44.2		-39.3		149		175.8		-15.1		-88.2		310.9		184.3		12.4		156.6	
pH (std. units)	NV	6.55		5.88		6.13		5.82		6.31		6.83		5.87		6.02		6.12		6.11	
Turbidity (NTUs)	NV	39.8		4.04		18		0.2		31.7		4.26		6.7		3.12		4.72		1.8	
Inorganics (ug/L)																					
Iron	300	NS		6,150		7,100		54		5,780		6,220		127		114		<		<	
Manganese	NV	NS		5,510		1,600		1,254		8,919		10,240		171.8		190.4		5.4		10.4	
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	<	
Ethane (ug/L)	NV	NS		2.4		<		<		<		<		<		<		<		<	
Ethene (ug/L)	NV	NS		3.7		<		<		<		2.13		<		<		<		<	
Total Organic Carbon (mg/L)	NV	NS		80		<		1.84		28.8		3.62		2.09		1.91		1.58		1.1	
Chloride (mg/L)	NV	NS		6.3	B	2.2		136.0		62.2		40.0		12.2		9.6		4.1		2.6	
Nitrate (mg/L)	NV	NS		0.36		8.30		8.65		0.59		0.21		2.10		4.10		3.70		1.60	
Nitrite (mg/L)	NV	NS		<		0.042	J	NS		NS		NS		NS		NS		NS		<	
Sulfate (mg/L)	NV	NS		12		25	B	19.8		18.3		13.3		22		21.4		14.7		14.1	

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Attachment C
June 2018 Post-Injection Groundwater Analytical Results Summary
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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
Volatile Organic Compounds - EPA Method SW-84																					
Acetone	50	<		<		<		<		<		<		1.5	J	<		<		<	
Methylene Chloride	5	3.2	DJ	<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		6.3		5.5		7.5		1.7		<	
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	
Toluene	5	<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	260	D	69		130		160		16		45		16		170		45		18.7	
Trichloroethene	5	13		3.6		6.4		8.5		1.5		7.5		7.2		53		10		5.4	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<	
Total VOCs	2	283.0		73.7		138.3		171.4		18.9		171.4		33.9		243.5		58.7		25.5	
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	
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	
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	
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	
pH (std. units)	NV	6.48		6.83		6.71		6.71		7.05		7.05		6.91		6.66		6.66		6.89	
Turbidity (NTUs)	NV	3.95		2.3		3.17		0.5		14.91		5.06		11.25		17.2		17.2		5.5	
Inorganics (ug/L)																					
Iron	300	NS		32.1	B	170	J	27.2	J	45	J	1,260		197		386		<		<	
Manganese	NV	NS		<		<		1.93		296.4		3,510		1447		1,340		240		332	
Miscellaneous Water Quality Parameters																					
Methane (ug/L)	NV	NS		14		1.1		0.762	J	96.9		958		1500		3610		1760		8.1	
Ethane (ug/L)	NV	NS		<		<		<		<		<		1.18		2.47		1.0		<	
Ethene (ug/L)	NV	NS		<		<		<		<		1.08		2.59		3.36		0.77		<	
Total Organic Carbon (mg/L)	NV	NS		<		<		1.64		3.93		1.86		1.69		1.49		1.23		<	
Chloride (mg/L)	NV	NS		5.1	B	4.2		35.0		9.4		17.3		15.4		12.6		3.2		6.8	
Nitrate (mg/L)	NV	NS		6		5.2		2.68		1.2		1.9		0.39		0.72		0.79		0.35	
Nitrite (mg/L)	NV	NS		<		<		NS		NS		NS		NS		NS		NS		<	
Sulfate (mg/L)	NV	NS		39		33	B	32.7		43.4		22.4		24		23.8		19.1		16.8	

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Attachment C
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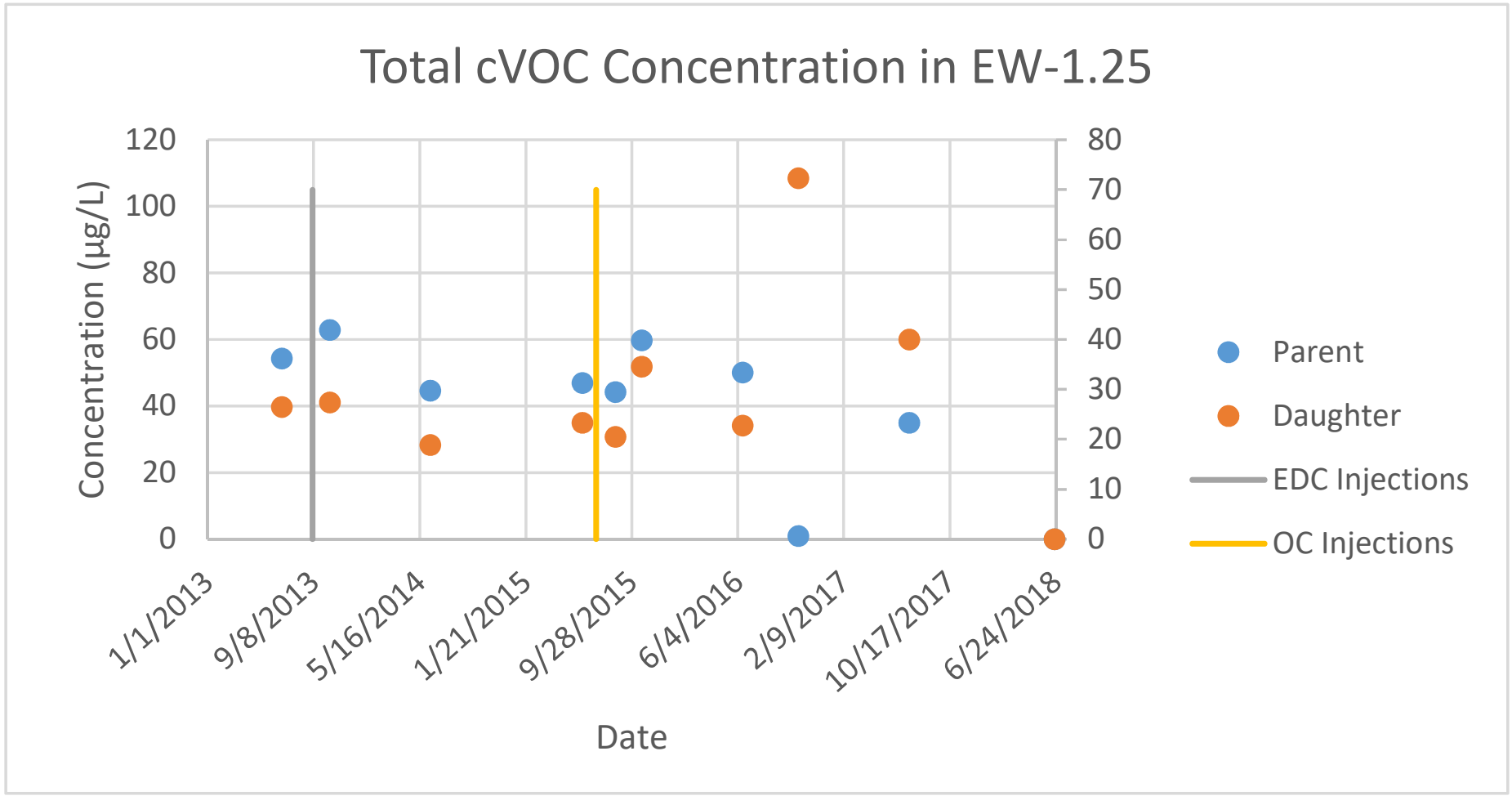
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

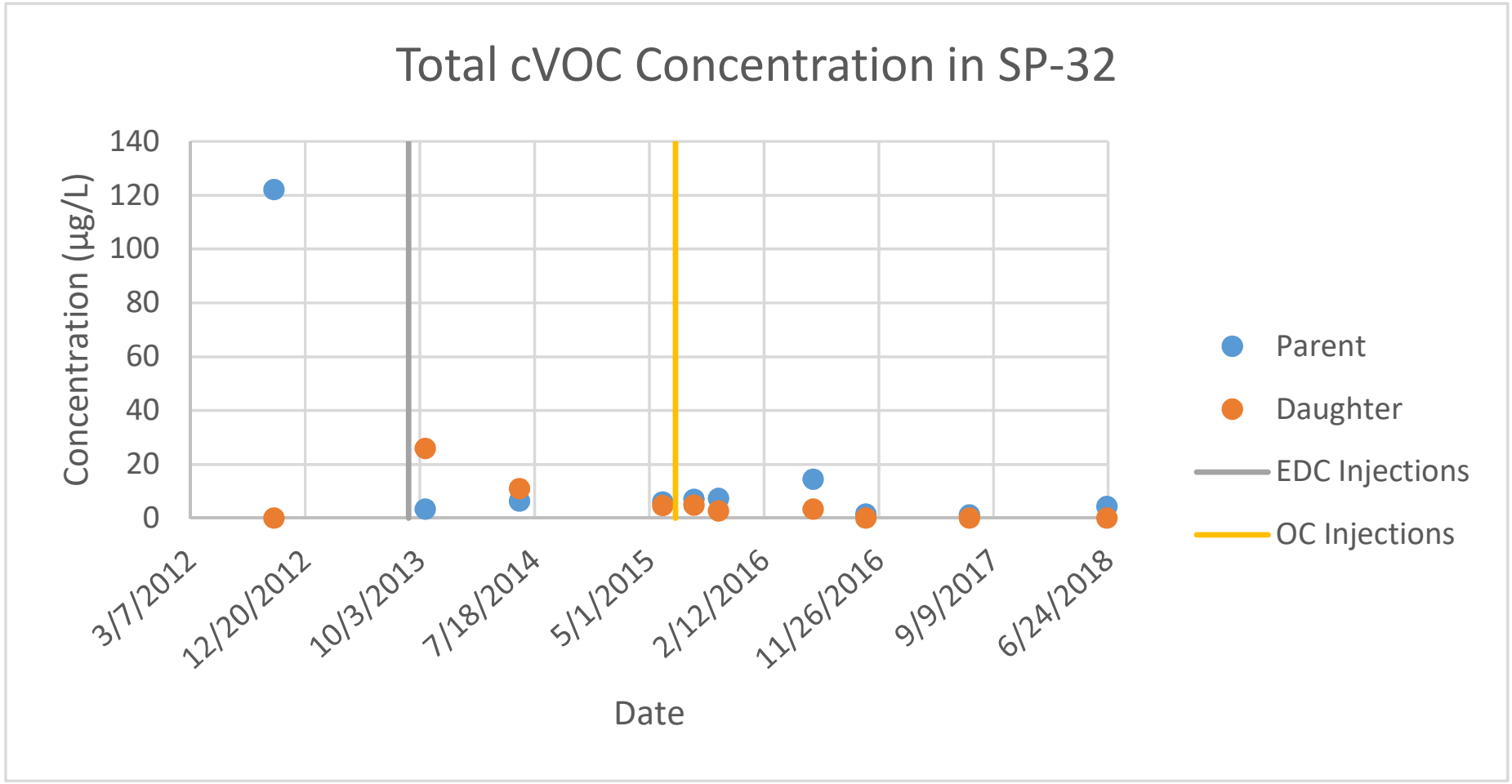
Sample Location Sample Date	Class GA Criteria	TP-11 6/3/2015	Q	TP-11 10/22/2015	Q	TP-11 6/16/2016	Q	TP-11 10/25/2016	Q	TP-11 7/12/2017	Q	TP-11 6/20/2018	Q
Volatile Organic Compounds - EPA Method SW-84													
Acetone	50	<		<		2	J	<		<		<	
Methylene Chloride	5	<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<	
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	
Toluene	5	<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<	
Tetrachloroethene	5	0.58		1.5		0.53		1.2		0.25	J	<	
Trichloroethene	5	88		74		77		58		40		66.7	
trans-1,2-dichloroethene	5	<		<		<		<		<		<	
Total VOCs	2	107.58		87.50		97.53		72.20		48.35		79.10	
Field Parameters													
Temperature (Deg. C)	NV	17.5		14.4		12.4		13.4		16.9		9.5	
Specific Conductance (mS/cm)	NV	0.37		0.535		0.493		0.504		0.393		0.464	
Dissolved Oxygen (mg/L)	NV	0.11		1.57		2.84		2.24		2.06		4.83	
Oxygen Reduction Potential (mv)	NV	-23.6		90.7		267.4		77.7		6.6		101.7	
pH (std. units)	NV	6.84		7.04		6.9		6.8		6.69		6.81	
Turbidity (NTUs)	NV	6.27		1.87		7.69		9.67		4.97		0.3	
Inorganics (ug/L)													
Iron	300	NS		NS		NS		NS		NS		NS	
Manganese	NV	NS		NS		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters													
Methane (ug/L)	NV	NS		NS		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		NS		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		NS		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		NS		NS		NS		NS		NS	
Chloride (mg/L)	NV	NS		NS		NS		NS		NS		NS	
Nitrate (mg/L)	NV	NS		NS		NS		NS		NS		NS	
Nitrite (mg/L)	NV	NS		NS		NS		NS		NS		NS	
Sulfate (mg/L)	NV	NS		NS		NS		NS		NS		NS	

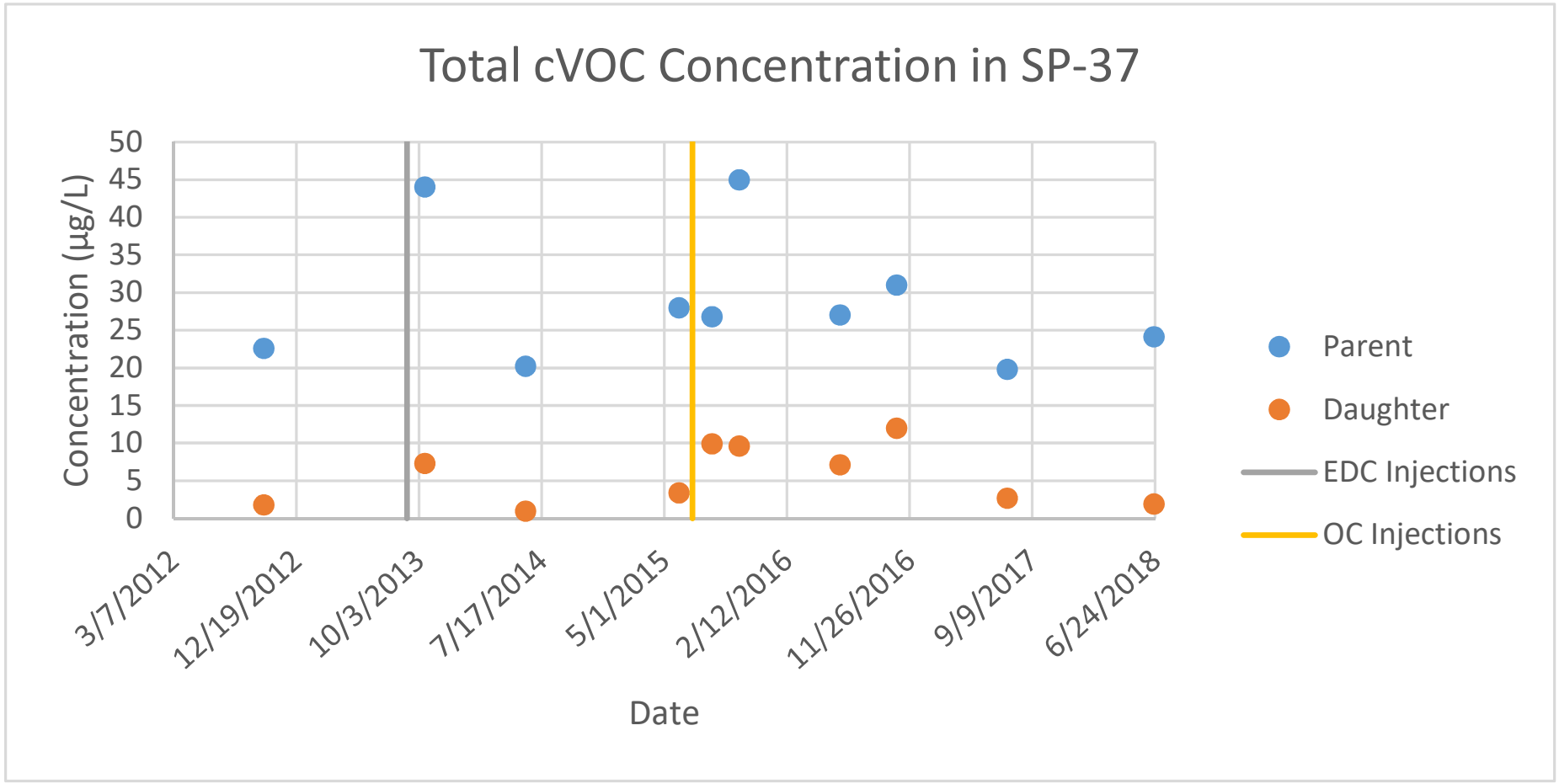
Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
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. Shaded concentrations exceed Class GA criteria.

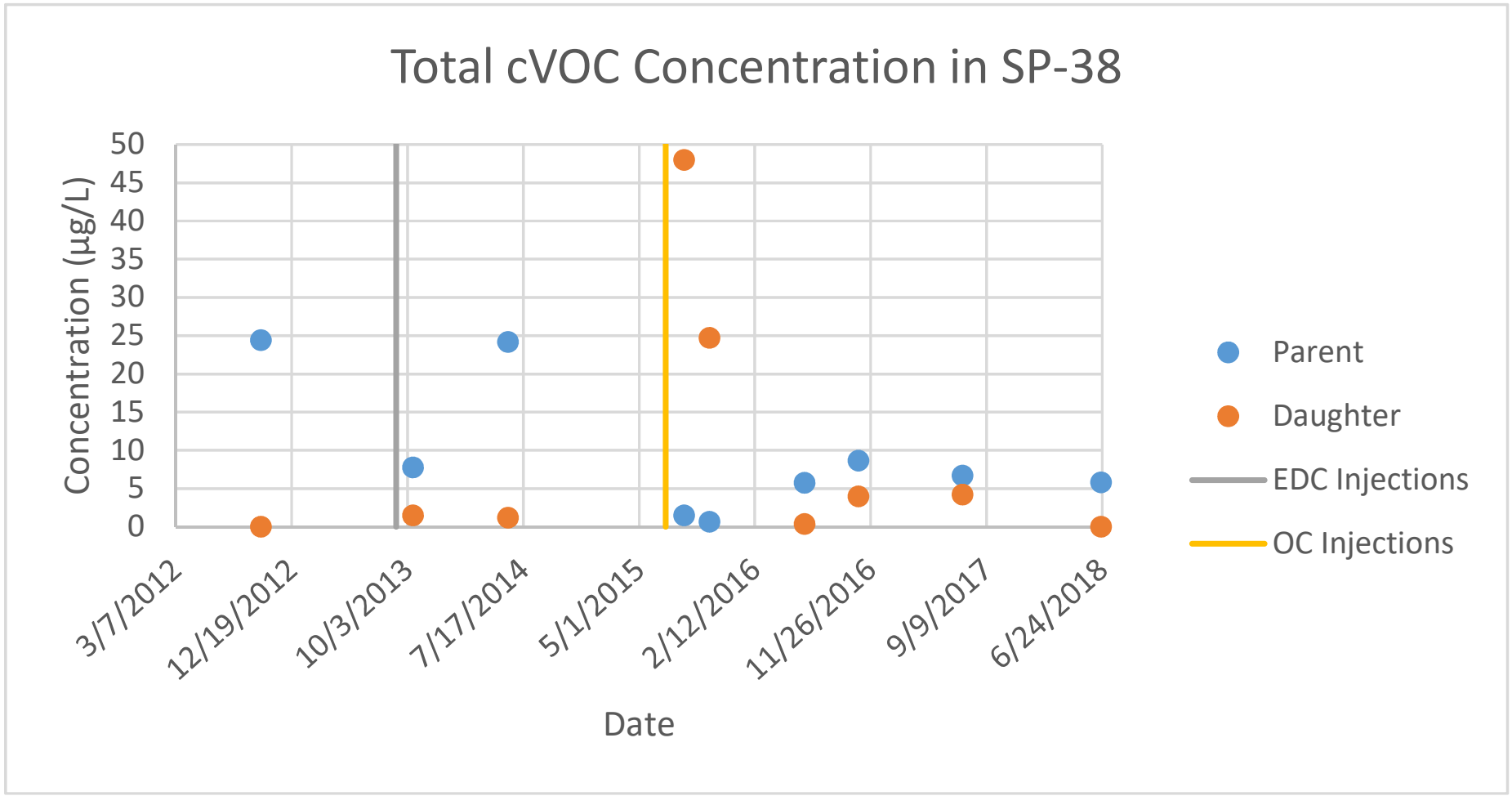
ATTACHMENT D

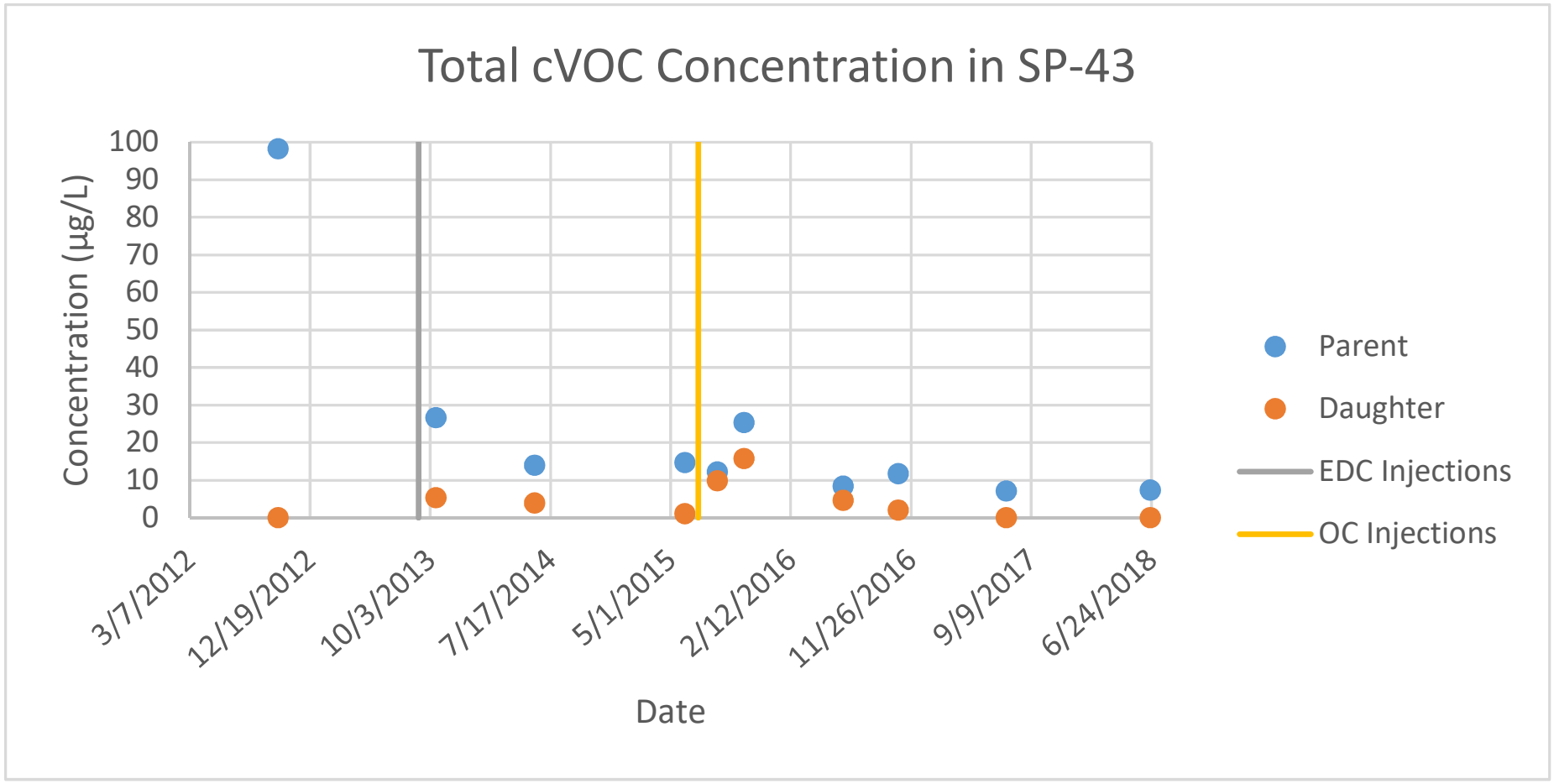
CONCENTRATIONS OF CVOC PARENT MATERIAL AND DAUGHTER PRODUCTS IN GROUNDWATER

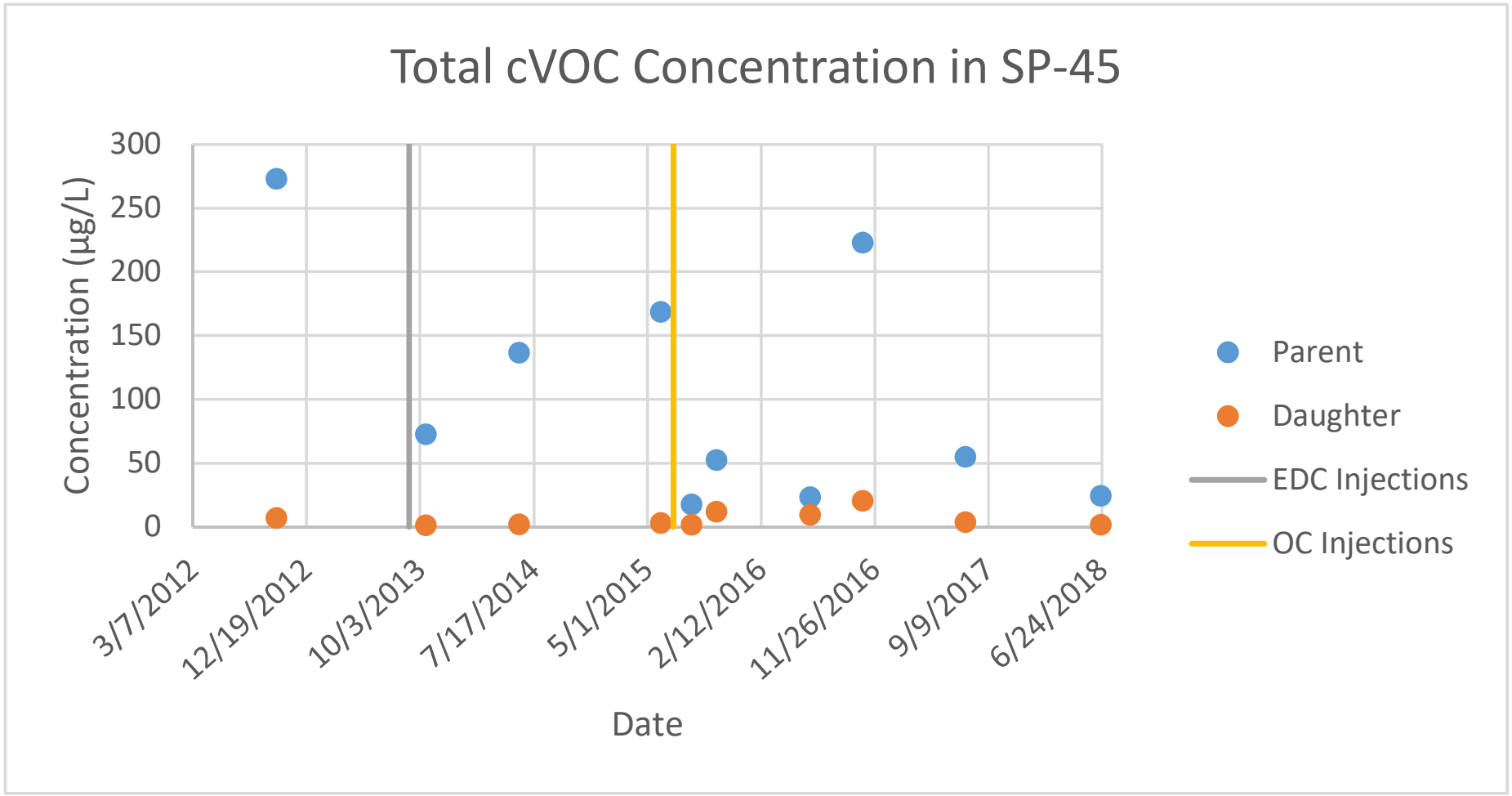

Total cVOC Concentration in EW-1.25
Concentration (µg/L)
120
100
80
60
40
20
0
80
70
60
50
40
30
20
10
0
1/1/2013
9/8/2013
5/16/2014
1/21/2015
9/28/2015
6/4/2016
2/9/2017
10/17/2017
6/24/2018
Date
Parent
Daughter
EDC Injections
OC Injections

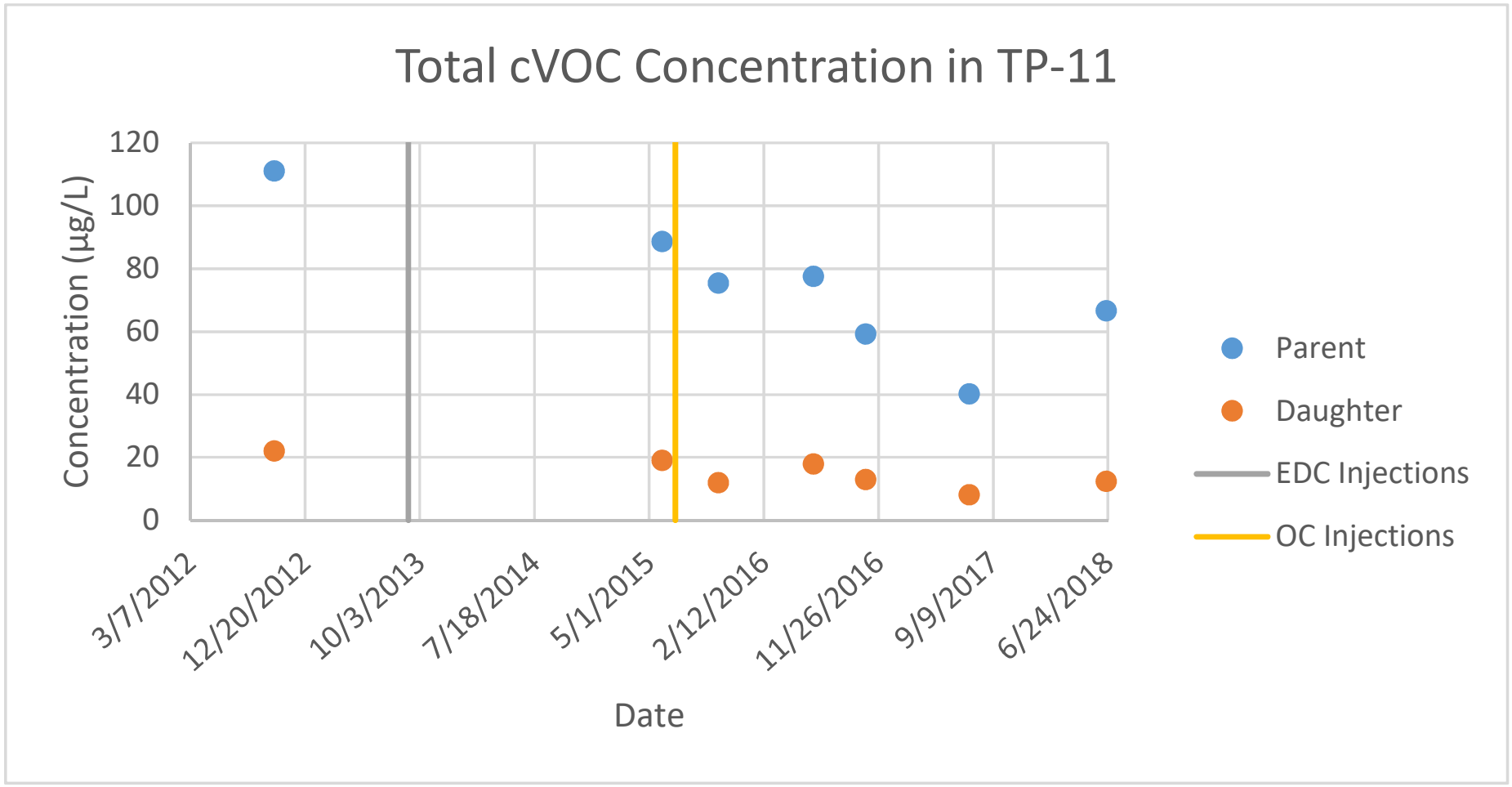

Total cVOC Concentration in SP-32
Concentration (µg/L)
140
120
100
80
60
40
20
0
3/7/2012
12/20/2012
10/3/2013
7/18/2014
5/1/2015
2/12/2016
11/26/2016
9/9/2017
6/24/2018
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-37
Concentration (µg/L)
50
45
40
35
30
25
20
15
10
5
0
3/7/2012
12/19/2012
10/3/2013
7/17/2014
5/1/2015
2/12/2016
11/26/2016
9/9/2017
6/24/2018
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
3/7/2012
12/19/2012
10/3/2013
7/17/2014
5/1/2015
2/12/2016
11/26/2016
9/9/2017
6/24/2018
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
3/7/2012
12/19/2012
10/3/2013
7/17/2014
5/1/2015
2/12/2016
11/26/2016
9/9/2017
6/24/2018
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in SP-45
Concentration (µg/L)
300
250
200
150
100
50
0
3/7/2012
12/19/2012
10/3/2013
7/17/2014
5/1/2015
2/12/2016
11/26/2016
9/9/2017
6/24/2018
Date
Parent
Daughter
EDC Injections
OC Injections


Total cVOC Concentration in TP-11
Concentration (µg/L)
120
100
80
60
40
20
0
3/7/2012
12/20/2012
10/3/2013
7/18/2014
5/1/2015
2/12/2016
11/26/2016
9/9/2017
6/24/2018
Date
Parent
Daughter
EDC Injections
OC Injections

ATTACHMENT E

LABORATORY REPORT

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 26, 2018

Thomas Bohlen
GZA GeoEnvironmental
300 Pearl Street
Buffalo, NY 14202

RE: Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Dear Thomas Bohlen:
Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report re-issued 7/26/18 to include additional analytes for RSK-I75 and 6010 Diss. Metals

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

Sincerely,

John D. Stanton for
Caitlin Panzarella
caitlin.panzarella@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Peter Nyznyk, GZA GeoEnvironmental
Margaret Popek, GZA GeoEnvironmental

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: EW-1.25-062118 **Lab ID: 7055915001** Collected: 06/21/18 11:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Iron, Dissolved	**27000**	ug/L	100	1		06/26/18 15:10	7439-89-6	M1
Manganese, Dissolved	**3060**	ug/L	10.0	1		06/26/18 15:10	7439-96-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**48.2**	mg/L	2.0	1		06/26/18 18:31	16887-00-6	M1
Sulfate	**<5.0**	mg/L	5.0	1		06/26/18 18:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		06/22/18 20:58	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		06/22/18 20:58	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		06/22/18 20:17	14797-65-0	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**21.0**	mg/L	1.0	1		06/28/18 01:14	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-32-062118 **Lab ID: 7055915002** Collected: 06/21/18 07:35 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175							
Ethane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 09:54	74-84-0	
Ethene, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 09:54	74-85-1	
Methane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 09:54	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Iron, Dissolved	**<100**	ug/L	100	1		06/26/18 15:15	7439-89-6	
Manganese, Dissolved	**71.9**	ug/L	10.0	1		06/26/18 15:15	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 20:01	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 20:01	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 20:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 20:01	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 20:01	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	563-58-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-32-062118 **Lab ID: 7055915002** Collected: 06/21/18 07:35 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 20:01	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 20:01	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 20:01	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 20:01	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 20:01	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	79-00-5	
Trichloroethene	**4.4**	ug/L	1.0	1		06/26/18 20:01	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:01	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:01	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 20:01	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 20:01	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 20:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		06/26/18 20:01	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/26/18 20:01	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/26/18 20:01	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**<2.0**	mg/L	2.0	1		06/26/18 19:22	16887-00-6	
Sulfate	**15.9**	mg/L	5.0	1		06/26/18 19:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**1.0**	mg/L	0.050	1		06/22/18 20:59	14797-55-8	
Nitrate-Nitrite (as N)	**1.0**	mg/L	0.050	1		06/22/18 20:59	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-32-062118 **Lab ID: 7055915002** Collected: 06/21/18 07:35 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		06/22/18 20:18	14797-65-0	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		07/02/18 13:30	7440-44-0	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-37-062118 **Lab ID: 7055915003** Collected: 06/21/18 08:15 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175							
Ethane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:03	74-84-0	
Ethene, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:03	74-85-1	
Methane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:03	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Iron, Dissolved	**<100**	ug/L	100	1		06/26/18 15:16	7439-89-6	
Manganese, Dissolved	**<10.0**	ug/L	10.0	1		06/26/18 15:16	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 20:19	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 20:19	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 20:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 20:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 20:19	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-35-4	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	1		06/26/18 20:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	563-58-6	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-37-062118 **Lab ID: 7055915003** Collected: 06/21/18 08:15 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 20:19	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 20:19	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 20:19	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 20:19	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 20:19	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	79-34-5	
Tetrachloroethene	**13.2**	ug/L	1.0	1		06/26/18 20:19	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	79-00-5	
Trichloroethene	**10.9**	ug/L	1.0	1		06/26/18 20:19	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:19	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:19	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 20:19	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 20:19	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 20:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		06/26/18 20:19	17060-07-0	
4-Bromofluorobenzene (S)	107	%	79-124	1		06/26/18 20:19	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/26/18 20:19	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.4**	mg/L	2.0	1		06/26/18 19:38	16887-00-6	
Sulfate	**13.9**	mg/L	5.0	1		06/26/18 19:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.79**	mg/L	0.050	1		06/22/18 21:00	14797-55-8	
Nitrate-Nitrite (as N)	**0.79**	mg/L	0.050	1		06/22/18 21:00	7727-37-9	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-37-062118 **Lab ID: 7055915003** Collected: 06/21/18 08:15 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		06/22/18 20:20	14797-65-0	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**1.5**	mg/L	1.0	1		06/28/18 16:10	7440-44-0	M1

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-38-062118 **Lab ID: 7055915004** Collected: 06/21/18 09:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175							
Ethane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:11	74-84-0	
Ethene, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:11	74-85-1	
Methane, Dissolved	**4.4**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:11	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Iron, Dissolved	**<100**	ug/L	100	1		06/26/18 15:17	7439-89-6	
Manganese, Dissolved	**22.5**	ug/L	10.0	1		06/26/18 15:17	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 20:37	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 20:37	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 20:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 20:37	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 20:37	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	563-58-6	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-38-062118 **Lab ID: 7055915004** Collected: 06/21/18 09:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 20:37	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 20:37	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 20:37	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 20:37	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 20:37	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	79-00-5	
Trichloroethene	**5.8**	ug/L	1.0	1		06/26/18 20:37	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:37	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:37	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 20:37	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 20:37	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 20:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		06/26/18 20:37	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 20:37	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 20:37	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**32.0**	mg/L	2.0	1		06/26/18 20:29	16887-00-6	
Sulfate	**11.7**	mg/L	5.0	1		06/26/18 20:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.37**	mg/L	0.050	1		06/22/18 21:01	14797-55-8	
Nitrate-Nitrite (as N)	**0.37**	mg/L	0.050	1		06/22/18 21:01	7727-37-9	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-38-062118 **Lab ID: 7055915004** Collected: 06/21/18 09:00 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		06/22/18 20:21	14797-65-0	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		06/28/18 16:55	7440-44-0	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-43-062118 **Lab ID: 7055915005** Collected: 06/21/18 09:50 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175							
Ethane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:20	74-84-0	
Ethene, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:20	74-85-1	
Methane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:20	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Iron, Dissolved	**<100**	ug/L	100	1		06/26/18 15:18	7439-89-6	
Manganese, Dissolved	**10.4**	ug/L	10.0	1		06/26/18 15:18	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 20:55	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 20:55	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 20:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 20:55	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 20:55	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	563-58-6	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-43-062118 **Lab ID: 7055915005** Collected: 06/21/18 09:50 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 20:55	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 20:55	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 20:55	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 20:55	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 20:55	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	79-34-5	
Tetrachloroethene	**7.4**	ug/L	1.0	1		06/26/18 20:55	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 20:55	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 20:55	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 20:55	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 20:55	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 20:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	68-153	1		06/26/18 20:55	17060-07-0	
4-Bromofluorobenzene (S)	108	%	79-124	1		06/26/18 20:55	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		06/26/18 20:55	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.6**	mg/L	2.0	1		06/26/18 20:45	16887-00-6	
Sulfate	**14.1**	mg/L	5.0	1		06/26/18 20:45	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**1.6**	mg/L	0.050	1		06/22/18 21:02	14797-55-8	
Nitrate-Nitrite (as N)	**1.6**	mg/L	0.050	1		06/22/18 21:02	7727-37-9	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-43-062118 **Lab ID: 7055915005** Collected: 06/21/18 09:50 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		06/22/18 20:22	14797-65-0	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**1.1**	mg/L	1.0	1		06/28/18 17:06	7440-44-0	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-45-062118 **Lab ID: 7055915006** Collected: 06/21/18 10:30 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175							
Ethane, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:29	74-84-0	
Ethene, Dissolved	**<1.0**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:29	74-85-1	
Methane, Dissolved	**8.1**	ug/L	1.0	1	06/23/18 10:14	06/24/18 10:29	74-82-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Iron, Dissolved	**<100**	ug/L	100	1		06/26/18 15:21	7439-89-6	
Manganese, Dissolved	**332**	ug/L	10.0	1		06/26/18 15:21	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 21:12	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 21:12	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 21:12	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 21:12	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 21:12	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-35-4	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		06/26/18 21:12	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	563-58-6	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-45-062118 **Lab ID: 7055915006** Collected: 06/21/18 10:30 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 21:12	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 21:12	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 21:12	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 21:12	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 21:12	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	79-34-5	
Tetrachloroethene	**18.7**	ug/L	1.0	1		06/26/18 21:12	127-18-4	CH
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	79-00-5	
Trichloroethene	**5.4**	ug/L	1.0	1		06/26/18 21:12	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:12	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:12	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 21:12	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 21:12	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 21:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 21:12	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 21:12	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		06/26/18 21:12	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**6.8**	mg/L	2.0	1		06/26/18 21:02	16887-00-6	
Sulfate	**16.8**	mg/L	5.0	1		06/26/18 21:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.35**	mg/L	0.050	1		06/22/18 21:04	14797-55-8	
Nitrate-Nitrite (as N)	**0.35**	mg/L	0.050	1		06/22/18 21:04	7727-37-9	

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: SP-45-062118 **Lab ID: 7055915006** Collected: 06/21/18 10:30 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		06/22/18 20:23	14797-65-0	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		06/28/18 17:17	7440-44-0	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: TP-11-062018 **Lab ID: 7055915007** Collected: 06/20/18 11:10 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 21:30	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 21:30	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 21:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 21:30	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 21:30	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-35-4	
cis-1,2-Dichloroethene	**12.4**	ug/L	1.0	1		06/26/18 21:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 21:30	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 21:30	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 21:30	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-09-2	

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ANALYTICAL RESULTS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Sample: TP-11-062018 **Lab ID: 7055915007** Collected: 06/20/18 11:10 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 21:30	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 21:30	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	79-00-5	
Trichloroethene	**66.7**	ug/L	1.0	1		06/26/18 21:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:30	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:30	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 21:30	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 21:30	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 21:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 21:30	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 21:30	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 21:30	2037-26-5	

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QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 72731 Analysis Method: RSK-175
QC Batch Method: RSK-175 Analysis Description: RSK 175 HEADSPACE
Associated Lab Samples: 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

METHOD BLANK: 333841 Matrix: Water
Associated Lab Samples: 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane, Dissolved	ug/L	<1.0	1.0	06/23/18 15:19	
Ethene, Dissolved	ug/L	<1.0	1.0	06/23/18 15:19	
Methane, Dissolved	ug/L	<1.0	1.0	06/23/18 15:19	

LABORATORY CONTROL SAMPLE: 333842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane, Dissolved	ug/L	10.2	8.6	84	32-156	
Ethene, Dissolved	ug/L		8.0			
Methane, Dissolved	ug/L	10.2	4.0	39	22-166	

MATRIX SPIKE SAMPLE: 333843

Parameter	Units	30255729008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methane, Dissolved	ug/L	ND	10.2	3.8	35	10-184	

SAMPLE DUPLICATE: 333844

Parameter	Units	30255729012 Result	Dup Result	RPD	Qualifiers
Ethane, Dissolved	ug/L		<43.0		
Ethene, Dissolved	ug/L		<43.0		
Methane, Dissolved	ug/L	193	115	51	D6

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QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 73033 Analysis Method: EPA 6010C
QC Batch Method: EPA 6010C Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

METHOD BLANK: 335139 Matrix: Water
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<100	100	06/26/18 15:08	
Manganese, Dissolved	ug/L	<10.0	10.0	06/26/18 15:08	

LABORATORY CONTROL SAMPLE: 335140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	2000	1910	96	80-120	
Manganese, Dissolved	ug/L	250	238	95	80-120	

MATRIX SPIKE SAMPLE: 335143

Parameter	Units	7055915001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	27000	2000	27700	35	75-125	M1
Manganese, Dissolved	ug/L	3060	250	3160	40	75-125	

SAMPLE DUPLICATE: 335142

Parameter	Units	7055915001 Result	Dup Result	RPD	Qualifiers
Iron, Dissolved	ug/L	27000	26900	0	
Manganese, Dissolved	ug/L	3060	3050	0	

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QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 73077 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7055915002, 7055915003, 7055915004, 7055915005, 7055915006, 7055915007

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055915002, 7055915003, 7055915004, 7055915005, 7055915006, 7055915007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Diethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/26/18 17:58	CL
2-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
2-Hexanone	ug/L	<5.0	5.0	06/26/18 17:58	
4-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/26/18 17:58	
Acetone	ug/L	<5.0	5.0	06/26/18 17:58	CL
Benzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromodichloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromoform	ug/L	<1.0	1.0	06/26/18 17:58	
Bromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon disulfide	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon tetrachloride	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	N3
Chloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
Chloroform	ug/L	<1.0	1.0	06/26/18 17:58	
Chloromethane	ug/L	<1.0	1.0	06/26/18 17:58	CL

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055915002, 7055915003, 7055915004, 7055915005, 7055915006, 7055915007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dichlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Ethanol	ug/L	<250	250	06/26/18 17:58	CL
Ethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	06/26/18 17:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	06/26/18 17:58	
m&p-Xylene	ug/L	<2.0	2.0	06/26/18 17:58	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	06/26/18 17:58	
Methylene Chloride	ug/L	<1.0	1.0	06/26/18 17:58	
n-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
n-Propylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Naphthalene	ug/L	<1.0	1.0	06/26/18 17:58	
o-Xylene	ug/L	<1.0	1.0	06/26/18 17:58	
p-Isopropyltoluene	ug/L	<1.0	1.0	06/26/18 17:58	
sec-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Styrene	ug/L	<1.0	1.0	06/26/18 17:58	
tert-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Tetrachloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Toluene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichlorofluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Vinyl chloride	ug/L	<1.0	1.0	06/26/18 17:58	CL
Xylene (Total)	ug/L	<3.0	3.0	06/26/18 17:58	
1,2-Dichloroethane-d4 (S)	%	105	68-153	06/26/18 17:58	
4-Bromofluorobenzene (S)	%	104	79-124	06/26/18 17:58	
Toluene-d8 (S)	%	95	69-124	06/26/18 17:58	

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	74-113	
1,1,1-Trichloroethane	ug/L	50	55.0	110	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	86	74-121	
1,1,2-Trichloroethane	ug/L	50	48.0	96	80-117	
1,1-Dichloroethane	ug/L	50	40.5	81	83-151	L2
1,1-Dichloroethene	ug/L	50	44.7	89	45-146	
1,1-Dichloropropene	ug/L	50	49.8	100	59-127	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	67-103	

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(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	50.0	100	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	41.0	82	66-103	N3
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	66-116	
1,2,4-Trimethylbenzene	ug/L	50	44.2	88	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	83-115	
1,2-Dichlorobenzene	ug/L	50	48.8	98	74-113	
1,2-Dichloroethane	ug/L	50	48.1	96	74-129	
1,2-Dichloropropane	ug/L	50	42.2	84	75-117	
1,3,5-Trimethylbenzene	ug/L	50	43.9	88	67-116	
1,3-Dichlorobenzene	ug/L	50	47.9	96	71-112	
1,3-Dichloropropane	ug/L	50	47.6	95	74-112	
1,4-Dichlorobenzene	ug/L	50	48.0	96	71-113	
1,4-Diethylbenzene	ug/L	50	39.1	78	56-130	N3
2,2-Dichloropropane	ug/L	50	42.5	85	63-133	
2-Butanone (MEK)	ug/L	50	33.7	67	44-162	CL
2-Chlorotoluene	ug/L	50	44.8	90	74-101	
2-Hexanone	ug/L	50	47.9	96	32-183	
4-Chlorotoluene	ug/L	50	45.6	91	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.1	90	69-132	
Acetone	ug/L	50	40.3	81	23-188	CL
Benzene	ug/L	50	45.7	91	73-119	
Bromobenzene	ug/L	50	52.4	105	72-102	L1
Bromochloromethane	ug/L	50	46.8	94	81-116	
Bromodichloromethane	ug/L	50	51.8	104	78-117	
Bromoform	ug/L	50	59.7	119	65-122	
Bromomethane	ug/L	50	42.5	85	52-147	
Carbon disulfide	ug/L	50	39.5	79	41-144	
Carbon tetrachloride	ug/L	50	56.8	114	59-120	CH
Chlorobenzene	ug/L	50	49.9	100	75-113	
Chlorodifluoromethane	ug/L	50	38.3	77	43-140	N3
Chloroethane	ug/L	50	36.5	73	49-151	
Chloroform	ug/L	50	44.6	89	72-122	
Chloromethane	ug/L	50	32.4	65	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	41.6	83	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.7	91	78-116	
Dibromochloromethane	ug/L	50	54.4	109	70-120	
Dibromomethane	ug/L	50	50.7	101	75-125	
Dichlorodifluoromethane	ug/L	50	50.5	101	22-154	
Ethanol	ug/L	1250	962	77	10-151	CL
Ethylbenzene	ug/L	50	47.7	95	70-113	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	59-121	
Isopropylbenzene (Cumene)	ug/L	50	45.4	91	67-115	
m&p-Xylene	ug/L	100	97.6	98	72-115	
Methyl-tert-butyl ether	ug/L	50	44.1	88	72-131	
Methylene Chloride	ug/L	50	42.9	86	61-142	
n-Butylbenzene	ug/L	50	37.7	75	73-107	
n-Propylbenzene	ug/L	50	42.1	84	68-116	

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(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	43.9	88	70-118	
o-Xylene	ug/L	50	47.6	95	73-117	
p-Isopropyltoluene	ug/L	50	41.4	83	73-101	
sec-Butylbenzene	ug/L	50	38.9	78	72-103	
Styrene	ug/L	50	48.9	98	72-118	
tert-Butylbenzene	ug/L	50	43.0	86	68-100	
Tetrachloroethene	ug/L	50	58.4	117	60-128	CH
Toluene	ug/L	50	48.5	97	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	56-142	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	44.7	89	71-121	
Trichloroethene	ug/L	50	53.1	106	69-117	
Trichlorofluoromethane	ug/L	50	55.0	110	27-173	
Vinyl chloride	ug/L	50	33.9	68	43-143	CL
Xylene (Total)	ug/L	150	145	97	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			95	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	53.0	51.9	106	104	74-113	2	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.9	55.8	116	112	65-118	4	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	35.0	34.6	70	69	74-121	1	M1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	41.8	41.5	84	83	80-117	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	36.7	36.3	73	73	83-151	1	M0
1,1-Dichloroethene	ug/L	<1.0	50	50	38.7	36.6	77	73	45-146	6	
1,1-Dichloropropene	ug/L	<1.0	50	50	50.4	48.4	101	97	59-127	4	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	37.0	39.1	74	78	67-103	6	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	40.8	40.5	82	81	71-123	1	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	38.7	36.7	77	73	66-103	5	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	42.0	40.4	84	81	66-116	4	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	41.6	40.1	83	80	68-116	4	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	46.8	46.6	94	93	83-115	0	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.5	44.2	91	88	74-113	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	43.6	42.1	87	84	74-129	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	38.9	38.0	78	76	75-117	2	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	41.4	39.3	83	79	67-116	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	45.7	43.6	91	87	71-112	5	
1,3-Dichloropropane	ug/L	<1.0	50	50	43.2	42.6	86	85	74-112	1	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	44.9	43.6	90	87	71-113	3	
1,4-Diethylbenzene	ug/L	<1.0	50	50	37.9	36.1	76	72	56-130	5	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	38.0	37.5	76	75	63-133	1	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2-Butanone (MEK)	ug/L	<5.0	50	50	21.7	22.2	43	44	44-162	2	CL,M1
2-Chlorotoluene	ug/L	<1.0	50	50	42.4	40.2	85	80	74-101	5	
2-Hexanone	ug/L	<5.0	50	50	33.1	35.7	66	71	32-183	8	
4-Chlorotoluene	ug/L	<1.0	50	50	42.5	41.3	85	83	74-101	3	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	32.7	33.8	65	68	69-132	3	M1
Acetone	ug/L	<5.0	50	50	23.5	25.0	47	50	23-188	6	CL
Benzene	ug/L	<1.0	50	50	44.7	43.4	89	87	73-119	3	
Bromobenzene	ug/L	<1.0	50	50	51.3	48.8	103	98	72-102	5	M0
Bromochloromethane	ug/L	<1.0	50	50	43.1	42.4	86	85	81-116	2	
Bromodichloromethane	ug/L	<1.0	50	50	49.9	48.6	100	97	78-117	3	
Bromoform	ug/L	<1.0	50	50	53.7	54.9	107	110	65-122	2	
Bromomethane	ug/L	<1.0	50	50	40.0	41.4	80	83	52-147	3	
Carbon disulfide	ug/L	<1.0	50	50	33.4	32.2	67	64	41-144	4	
Carbon tetrachloride	ug/L	<1.0	50	50	60.0	59.3	120	119	59-120	1	CH
Chlorobenzene	ug/L	<1.0	50	50	49.5	49.6	99	99	75-113	0	
Chlorodifluoromethane	ug/L	<1.0	50	50	39.9	39.6	80	79	43-140	1	N3
Chloroethane	ug/L	<1.0	50	50	33.4	32.0	67	64	49-151	4	
Chloroform	ug/L	<1.0	50	50	42.7	41.1	85	82	72-122	4	
Chloromethane	ug/L	<1.0	50	50	30.1	30.3	60	61	46-144	0	CL
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	38.8	38.1	78	76	72-121	2	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	41.0	41.4	82	83	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	52.8	52.5	106	105	70-120	1	
Dibromomethane	ug/L	<1.0	50	50	46.8	46.6	94	93	75-125	0	
Dichlorodifluoromethane	ug/L	<1.0	50	50	67.7	67.4	135	135	22-154	1	
Ethanol	ug/L	<250	1250	1250	462	588	37	47	10-151	24	CL,R1
Ethylbenzene	ug/L	<1.0	50	50	47.9	47.0	96	94	70-113	2	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	48.7	47.5	97	95	59-121	3	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	43.3	41.3	87	83	67-115	5	
m&p-Xylene	ug/L	<2.0	100	100	96.0	95.2	96	95	72-115	1	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	34.6	31.3	69	63	72-131	10	M1
Methylene Chloride	ug/L	<1.0	50	50	31.5	31.1	63	62	61-142	1	
n-Butylbenzene	ug/L	<1.0	50	50	34.6	32.6	69	65	73-107	6	M1
n-Propylbenzene	ug/L	<1.0	50	50	39.0	37.5	78	75	68-116	4	
Naphthalene	ug/L	<1.0	50	50	32.2	35.2	64	70	70-118	9	M1
o-Xylene	ug/L	<1.0	50	50	47.0	45.9	94	92	73-117	2	
p-Isopropyltoluene	ug/L	<1.0	50	50	39.5	37.8	79	76	73-101	4	
sec-Butylbenzene	ug/L	<1.0	50	50	37.1	35.2	74	70	72-103	5	M1
Styrene	ug/L	<1.0	50	50	47.8	47.1	96	94	72-118	1	
tert-Butylbenzene	ug/L	<1.0	50	50	41.6	39.5	83	79	68-100	5	
Tetrachloroethene	ug/L	<1.0	50	50	62.5	60.3	125	121	60-128	4	CH
Toluene	ug/L	<1.0	50	50	47.2	46.1	94	92	72-119	2	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	41.0	36.0	82	72	56-142	13	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	42.8	42.4	86	85	79-116	1	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	34.4	34.1	69	68	71-121	1	M1
Trichloroethene	ug/L	<1.0	50	50	53.5	53.2	107	106	69-117	1	
Trichlorofluoromethane	ug/L	<1.0	50	50	52.9	52.2	106	104	27-173	1	

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(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Vinyl chloride	ug/L	<1.0	50	50	33.6	33.6	67	67	43-143	0	CL
Xylene (Total)	ug/L	<3.0	150	150	143	141	95	94	71-109	1	
1,2-Dichloroethane-d4 (S)	%						102	101	68-153		
4-Bromofluorobenzene (S)	%						105	109	79-124		
Toluene-d8 (S)	%						97	99	69-124		

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QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 73045 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

METHOD BLANK: 335208 Matrix: Water
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	06/26/18 17:25	
Sulfate	mg/L	<5.0	5.0	06/26/18 17:25	

LABORATORY CONTROL SAMPLE: 335209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE SAMPLE: 335210

Parameter	Units	7055915001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	48.2	20	73.3	125	80-120	M1
Sulfate	mg/L	<5.0	20	19.4	94	80-120	

MATRIX SPIKE SAMPLE: 335212

Parameter	Units	7055976002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	49.4	10	51.5	21	80-120	M1
Sulfate	mg/L	38.9	10	37.9	-10	80-120	M1

SAMPLE DUPLICATE: 335211

Parameter	Units	7055915001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	48.2	48.5	0	
Sulfate	mg/L	<5.0	<5.0		

SAMPLE DUPLICATE: 335213

Parameter	Units	7055976002 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	49.4	52.0	5	
Sulfate	mg/L	38.9	41.8	7	

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QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 72711 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

METHOD BLANK: 333781 Matrix: Water
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	06/22/18 20:04	

LABORATORY CONTROL SAMPLE: 333782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 333783

Parameter	Units	7055914003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.61	122	90-110	H1,M1

SAMPLE DUPLICATE: 333784

Parameter	Units	7055914003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		H1

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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 72713 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

METHOD BLANK: 333787 Matrix: Water
Associated Lab Samples: 7055915001, 7055915002, 7055915003, 7055915004, 7055915005, 7055915006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	06/22/18 20:55	

LABORATORY CONTROL SAMPLE: 333788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 333789

Parameter	Units	7055883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.12	.5	0.66	108	90-110	H3

MATRIX SPIKE SAMPLE: 333791

Parameter	Units	7055925001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.5	2.5	4.2	111	90-110	M1

SAMPLE DUPLICATE: 333790

Parameter	Units	7055883001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.12	0.11	4	H3

SAMPLE DUPLICATE: 333792

Parameter	Units	7055925001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.5	1.5	0	

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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 73109 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 7055915001

METHOD BLANK: 335528 Matrix: Water
Associated Lab Samples: 7055915001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	06/27/18 23:28	

LABORATORY CONTROL SAMPLE: 335529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	85-115	

MATRIX SPIKE SAMPLE: 335531

Parameter	Units	7055053001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.8	10	12.1	104	75-125	

SAMPLE DUPLICATE: 335530

Parameter	Units	7055053001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.8	1.7	3	

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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 73337 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 7055915003, 7055915004, 7055915005, 7055915006

METHOD BLANK: 336585 Matrix: Water
Associated Lab Samples: 7055915003, 7055915004, 7055915005, 7055915006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	06/28/18 15:47	

LABORATORY CONTROL SAMPLE: 336586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.0	90	85-115	

MATRIX SPIKE SAMPLE: 336588

Parameter	Units	7055915003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.5	10	15.0	135	75-125	M1

SAMPLE DUPLICATE: 336587

Parameter	Units	7055915003 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.5	1.4	11	

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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

QC Batch: 73338 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 7055915002

METHOD BLANK: 336589 Matrix: Water
Associated Lab Samples: 7055915002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	07/02/18 13:07	

LABORATORY CONTROL SAMPLE: 336590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	85-115	

MATRIX SPIKE SAMPLE: 336592

Parameter	Units	7055915002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	10	9.3	88	75-125	

SAMPLE DUPLICATE: 336591

Parameter	Units	7055915002 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
R1	RPD value was outside control limits.

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SIGNORE POST-INJECTION
Pace Project No.: 7055915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7055915002	**SP-32-062118**	RSK-175	72731	RSK-175	72746
7055915003	**SP-37-062118**	RSK-175	72731	RSK-175	72746
7055915004	**SP-38-062118**	RSK-175	72731	RSK-175	72746
7055915005	**SP-43-062118**	RSK-175	72731	RSK-175	72746
7055915006	**SP-45-062118**	RSK-175	72731	RSK-175	72746
7055915001	**EW-1.25-062118**	EPA 6010C	73033		
7055915002	**SP-32-062118**	EPA 6010C	73033		
7055915003	**SP-37-062118**	EPA 6010C	73033		
7055915004	**SP-38-062118**	EPA 6010C	73033		
7055915005	**SP-43-062118**	EPA 6010C	73033		
7055915006	**SP-45-062118**	EPA 6010C	73033		
7055915002	**SP-32-062118**	EPA 8260C/5030C	73077		
7055915003	**SP-37-062118**	EPA 8260C/5030C	73077		
7055915004	**SP-38-062118**	EPA 8260C/5030C	73077		
7055915005	**SP-43-062118**	EPA 8260C/5030C	73077		
7055915006	**SP-45-062118**	EPA 8260C/5030C	73077		
7055915007	**TP-11-062018**	EPA 8260C/5030C	73077		
7055915001	**EW-1.25-062118**	EPA 300.0	73045		
7055915002	**SP-32-062118**	EPA 300.0	73045		
7055915003	**SP-37-062118**	EPA 300.0	73045		
7055915004	**SP-38-062118**	EPA 300.0	73045		
7055915005	**SP-43-062118**	EPA 300.0	73045		
7055915006	**SP-45-062118**	EPA 300.0	73045		
7055915001	**EW-1.25-062118**	EPA 353.2	72713		
7055915002	**SP-32-062118**	EPA 353.2	72713		
7055915003	**SP-37-062118**	EPA 353.2	72713		
7055915004	**SP-38-062118**	EPA 353.2	72713		
7055915005	**SP-43-062118**	EPA 353.2	72713		
7055915006	**SP-45-062118**	EPA 353.2	72713		
7055915001	**EW-1.25-062118**	EPA 353.2	72711		
7055915002	**SP-32-062118**	EPA 353.2	72711		
7055915003	**SP-37-062118**	EPA 353.2	72711		
7055915004	**SP-38-062118**	EPA 353.2	72711		
7055915005	**SP-43-062118**	EPA 353.2	72711		
7055915006	**SP-45-062118**	EPA 353.2	72711		
7055915001	**EW-1.25-062118**	SM22 5310B	73109		
7055915002	**SP-32-062118**	SM22 5310B	73338		
7055915003	**SP-37-062118**	SM22 5310B	73337		
7055915004	**SP-38-062118**	SM22 5310B	73337		
7055915005	**SP-43-062118**	SM22 5310B	73337		
7055915006	**SP-45-062118**	SM22 5310B	73337		

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WO#:7055915

7055915

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GZA
Address:	300 Pearl St. Suite 700 Buffalo, NY 14202
Email To:	thomas.bohlen@gza.com
Phone: 716 844 7050	Fax:
Requested Due Date/TAT:	Std.

Section B Required Project Information:

Report To:	Thomas Bohlen
Copy To:	
Purchase Order No.:	
Project Name:	Sigmore Post-Injection
Project Number:	21.0056367.64

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 TCL	TOC SM-5310B	Chloride, Nitrate, Sulfate EPA 300	RSK-175	D.S. Iron	Manganese SW-846	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EW-1.25-062118	WT	G	—	—	6/21/18	1120		5	X	X		X							X	X	X	X			* Requires lab filtering	001
2	SP-32-062118			—	—		735		7										X								002
3	SP-37-062118			—	—		315																				003
4	SP-38-062118			—	—		900																				004
5	SP-43-062118			—	—		950																				005
6	SP-45-062118			—	—		1030																				006
7	Trip Blank		-	-	-	-	-		1				X														
8																											
9	TP-11-062018	WT	G	—	-	6/20/18	1110		2				X							X							007
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Cat B Reporting & NYSDEC EDD Required	Thomas Bohlen/GZA	6/21/18	1650	RPG	6/21/18	1650				
					6/22/18	10:15	2.0	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: GZA

Projec WO#:7055915

PM: CNP Due Date: 06/29/18

CLIENT: GZA

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

Tracking #: 8120 8756 5340

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Ziploc ☐ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 0.0 **Correction Factor:** 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.2 **Cooler Temperature Corrected (°C):** 2.0 **Date/Time 5035A kits placed in freezer** _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) **Date and Initials of person examining contents:** DL 6/22/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☐ Yes	☑ No		3.
Sampler Name & Signature on COC:	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	16. Chain indicates that there ~~was~~ is a trip blank, but trip blanks were not received. (CB) 6/22/18 (CB) 6/22/18
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: Client is requesting RSK on chain of custody for sample ID EW-1,25-062118. Lab did not receive sample volume for RSK.

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 20, 2018

Thomas Bohlen
GZA GeoEnvironmental
300 Pearl Street
Buffalo, NY 14202

RE: Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Dear Thomas Bohlen:
Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Sophia Sparkes

Sophia Sparkes for
Caitlin Panzarella
caitlin.panzarella@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Margaret Popek, GZA GeoEnvironmental

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Sample: EW-1.25-062118 **Lab ID: 7055995001** Collected: 06/21/18 11:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/26/18 21:49	67-64-1	CL
Benzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-86-1	L1
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/26/18 21:49	78-93-3	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/26/18 21:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-45-6	N3
Chloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/26/18 21:49	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-87-3	CL
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/26/18 21:49	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		06/26/18 21:49	64-17-5	CL
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/26/18 21:49	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		06/26/18 21:49	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-09-2	

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Sample: EW-1.25-062118 **Lab ID: 7055995001** Collected: 06/21/18 11:20 Received: 06/22/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/26/18 21:49	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		06/26/18 21:49	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/26/18 21:49	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/26/18 21:49	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/26/18 21:49	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/26/18 21:49	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/26/18 21:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		06/26/18 21:49	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-124	1		06/26/18 21:49	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/26/18 21:49	2037-26-5	

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(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

QC Batch: 73077 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7055995001

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055995001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
1,1-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,3-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
1,4-Diethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	06/26/18 17:58	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/26/18 17:58	CL
2-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
2-Hexanone	ug/L	<5.0	5.0	06/26/18 17:58	
4-Chlorotoluene	ug/L	<1.0	1.0	06/26/18 17:58	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/26/18 17:58	
Acetone	ug/L	<5.0	5.0	06/26/18 17:58	CL
Benzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Bromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromodichloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Bromoform	ug/L	<1.0	1.0	06/26/18 17:58	
Bromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon disulfide	ug/L	<1.0	1.0	06/26/18 17:58	
Carbon tetrachloride	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorobenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Chlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	N3
Chloroethane	ug/L	<1.0	1.0	06/26/18 17:58	
Chloroform	ug/L	<1.0	1.0	06/26/18 17:58	
Chloromethane	ug/L	<1.0	1.0	06/26/18 17:58	CL

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QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

METHOD BLANK: 335457 Matrix: Water
Associated Lab Samples: 7055995001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromochloromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dibromomethane	ug/L	<1.0	1.0	06/26/18 17:58	
Dichlorodifluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Ethanol	ug/L	<250	250	06/26/18 17:58	CL
Ethylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	06/26/18 17:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	06/26/18 17:58	
m&p-Xylene	ug/L	<2.0	2.0	06/26/18 17:58	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	06/26/18 17:58	
Methylene Chloride	ug/L	<1.0	1.0	06/26/18 17:58	
n-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
n-Propylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Naphthalene	ug/L	<1.0	1.0	06/26/18 17:58	
o-Xylene	ug/L	<1.0	1.0	06/26/18 17:58	
p-Isopropyltoluene	ug/L	<1.0	1.0	06/26/18 17:58	
sec-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Styrene	ug/L	<1.0	1.0	06/26/18 17:58	
tert-Butylbenzene	ug/L	<1.0	1.0	06/26/18 17:58	
Tetrachloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Toluene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/26/18 17:58	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichloroethene	ug/L	<1.0	1.0	06/26/18 17:58	
Trichlorofluoromethane	ug/L	<1.0	1.0	06/26/18 17:58	
Vinyl chloride	ug/L	<1.0	1.0	06/26/18 17:58	CL
Xylene (Total)	ug/L	<3.0	3.0	06/26/18 17:58	
1,2-Dichloroethane-d4 (S)	%	105	68-153	06/26/18 17:58	
4-Bromofluorobenzene (S)	%	104	79-124	06/26/18 17:58	
Toluene-d8 (S)	%	95	69-124	06/26/18 17:58	

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	74-113	
1,1,1-Trichloroethane	ug/L	50	55.0	110	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	86	74-121	
1,1,2-Trichloroethane	ug/L	50	48.0	96	80-117	
1,1-Dichloroethane	ug/L	50	40.5	81	83-151	L2
1,1-Dichloroethene	ug/L	50	44.7	89	45-146	
1,1-Dichloropropene	ug/L	50	49.8	100	59-127	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	67-103	

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QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	50.0	100	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	41.0	82	66-103	N3
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	66-116	
1,2,4-Trimethylbenzene	ug/L	50	44.2	88	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	83-115	
1,2-Dichlorobenzene	ug/L	50	48.8	98	74-113	
1,2-Dichloroethane	ug/L	50	48.1	96	74-129	
1,2-Dichloropropane	ug/L	50	42.2	84	75-117	
1,3,5-Trimethylbenzene	ug/L	50	43.9	88	67-116	
1,3-Dichlorobenzene	ug/L	50	47.9	96	71-112	
1,3-Dichloropropane	ug/L	50	47.6	95	74-112	
1,4-Dichlorobenzene	ug/L	50	48.0	96	71-113	
1,4-Diethylbenzene	ug/L	50	39.1	78	56-130	N3
2,2-Dichloropropane	ug/L	50	42.5	85	63-133	
2-Butanone (MEK)	ug/L	50	33.7	67	44-162	CL
2-Chlorotoluene	ug/L	50	44.8	90	74-101	
2-Hexanone	ug/L	50	47.9	96	32-183	
4-Chlorotoluene	ug/L	50	45.6	91	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.1	90	69-132	
Acetone	ug/L	50	40.3	81	23-188	CL
Benzene	ug/L	50	45.7	91	73-119	
Bromobenzene	ug/L	50	52.4	105	72-102	L1
Bromochloromethane	ug/L	50	46.8	94	81-116	
Bromodichloromethane	ug/L	50	51.8	104	78-117	
Bromoform	ug/L	50	59.7	119	65-122	
Bromomethane	ug/L	50	42.5	85	52-147	
Carbon disulfide	ug/L	50	39.5	79	41-144	
Carbon tetrachloride	ug/L	50	56.8	114	59-120	CH
Chlorobenzene	ug/L	50	49.9	100	75-113	
Chlorodifluoromethane	ug/L	50	38.3	77	43-140	N3
Chloroethane	ug/L	50	36.5	73	49-151	
Chloroform	ug/L	50	44.6	89	72-122	
Chloromethane	ug/L	50	32.4	65	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	41.6	83	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.7	91	78-116	
Dibromochloromethane	ug/L	50	54.4	109	70-120	
Dibromomethane	ug/L	50	50.7	101	75-125	
Dichlorodifluoromethane	ug/L	50	50.5	101	22-154	
Ethanol	ug/L	1250	962	77	10-151	CL
Ethylbenzene	ug/L	50	47.7	95	70-113	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	59-121	
Isopropylbenzene (Cumene)	ug/L	50	45.4	91	67-115	
m&p-Xylene	ug/L	100	97.6	98	72-115	
Methyl-tert-butyl ether	ug/L	50	44.1	88	72-131	
Methylene Chloride	ug/L	50	42.9	86	61-142	
n-Butylbenzene	ug/L	50	37.7	75	73-107	
n-Propylbenzene	ug/L	50	42.1	84	68-116	

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QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

LABORATORY CONTROL SAMPLE: 335458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	43.9	88	70-118	
o-Xylene	ug/L	50	47.6	95	73-117	
p-Isopropyltoluene	ug/L	50	41.4	83	73-101	
sec-Butylbenzene	ug/L	50	38.9	78	72-103	
Styrene	ug/L	50	48.9	98	72-118	
tert-Butylbenzene	ug/L	50	43.0	86	68-100	
Tetrachloroethene	ug/L	50	58.4	117	60-128	CH
Toluene	ug/L	50	48.5	97	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	56-142	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	44.7	89	71-121	
Trichloroethene	ug/L	50	53.1	106	69-117	
Trichlorofluoromethane	ug/L	50	55.0	110	27-173	
Vinyl chloride	ug/L	50	33.9	68	43-143	CL
Xylene (Total)	ug/L	150	145	97	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			95	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	53.0	51.9	106	104	74-113	2	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.9	55.8	116	112	65-118	4	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	35.0	34.6	70	69	74-121	1	M1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	41.8	41.5	84	83	80-117	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	36.7	36.3	73	73	83-151	1	M0
1,1-Dichloroethene	ug/L	<1.0	50	50	38.7	36.6	77	73	45-146	6	
1,1-Dichloropropene	ug/L	<1.0	50	50	50.4	48.4	101	97	59-127	4	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	37.0	39.1	74	78	67-103	6	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	40.8	40.5	82	81	71-123	1	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	38.7	36.7	77	73	66-103	5	N3
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	42.0	40.4	84	81	66-116	4	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	41.6	40.1	83	80	68-116	4	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	46.8	46.6	94	93	83-115	0	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.5	44.2	91	88	74-113	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	43.6	42.1	87	84	74-129	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	38.9	38.0	78	76	75-117	2	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	41.4	39.3	83	79	67-116	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	45.7	43.6	91	87	71-112	5	
1,3-Dichloropropane	ug/L	<1.0	50	50	43.2	42.6	86	85	74-112	1	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	44.9	43.6	90	87	71-113	3	
1,4-Diethylbenzene	ug/L	<1.0	50	50	37.9	36.1	76	72	56-130	5	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	38.0	37.5	76	75	63-133	1	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2-Butanone (MEK)	ug/L	<5.0	50	50	21.7	22.2	43	44	44-162	2	CL,M1
2-Chlorotoluene	ug/L	<1.0	50	50	42.4	40.2	85	80	74-101	5	
2-Hexanone	ug/L	<5.0	50	50	33.1	35.7	66	71	32-183	8	
4-Chlorotoluene	ug/L	<1.0	50	50	42.5	41.3	85	83	74-101	3	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	32.7	33.8	65	68	69-132	3	M1
Acetone	ug/L	<5.0	50	50	23.5	25.0	47	50	23-188	6	CL
Benzene	ug/L	<1.0	50	50	44.7	43.4	89	87	73-119	3	
Bromobenzene	ug/L	<1.0	50	50	51.3	48.8	103	98	72-102	5	M0
Bromochloromethane	ug/L	<1.0	50	50	43.1	42.4	86	85	81-116	2	
Bromodichloromethane	ug/L	<1.0	50	50	49.9	48.6	100	97	78-117	3	
Bromoform	ug/L	<1.0	50	50	53.7	54.9	107	110	65-122	2	
Bromomethane	ug/L	<1.0	50	50	40.0	41.4	80	83	52-147	3	
Carbon disulfide	ug/L	<1.0	50	50	33.4	32.2	67	64	41-144	4	
Carbon tetrachloride	ug/L	<1.0	50	50	60.0	59.3	120	119	59-120	1	CH
Chlorobenzene	ug/L	<1.0	50	50	49.5	49.6	99	99	75-113	0	
Chlorodifluoromethane	ug/L	<1.0	50	50	39.9	39.6	80	79	43-140	1	N3
Chloroethane	ug/L	<1.0	50	50	33.4	32.0	67	64	49-151	4	
Chloroform	ug/L	<1.0	50	50	42.7	41.1	85	82	72-122	4	
Chloromethane	ug/L	<1.0	50	50	30.1	30.3	60	61	46-144	0	CL
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	38.8	38.1	78	76	72-121	2	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	41.0	41.4	82	83	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	52.8	52.5	106	105	70-120	1	
Dibromomethane	ug/L	<1.0	50	50	46.8	46.6	94	93	75-125	0	
Dichlorodifluoromethane	ug/L	<1.0	50	50	67.7	67.4	135	135	22-154	1	
Ethanol	ug/L	<250	1250	1250	462	588	37	47	10-151	24	CL,R1
Ethylbenzene	ug/L	<1.0	50	50	47.9	47.0	96	94	70-113	2	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	48.7	47.5	97	95	59-121	3	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	43.3	41.3	87	83	67-115	5	
m&p-Xylene	ug/L	<2.0	100	100	96.0	95.2	96	95	72-115	1	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	34.6	31.3	69	63	72-131	10	M1
Methylene Chloride	ug/L	<1.0	50	50	31.5	31.1	63	62	61-142	1	
n-Butylbenzene	ug/L	<1.0	50	50	34.6	32.6	69	65	73-107	6	M1
n-Propylbenzene	ug/L	<1.0	50	50	39.0	37.5	78	75	68-116	4	
Naphthalene	ug/L	<1.0	50	50	32.2	35.2	64	70	70-118	9	M1
o-Xylene	ug/L	<1.0	50	50	47.0	45.9	94	92	73-117	2	
p-Isopropyltoluene	ug/L	<1.0	50	50	39.5	37.8	79	76	73-101	4	
sec-Butylbenzene	ug/L	<1.0	50	50	37.1	35.2	74	70	72-103	5	M1
Styrene	ug/L	<1.0	50	50	47.8	47.1	96	94	72-118	1	
tert-Butylbenzene	ug/L	<1.0	50	50	41.6	39.5	83	79	68-100	5	
Tetrachloroethene	ug/L	<1.0	50	50	62.5	60.3	125	121	60-128	4	CH
Toluene	ug/L	<1.0	50	50	47.2	46.1	94	92	72-119	2	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	41.0	36.0	82	72	56-142	13	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	42.8	42.4	86	85	79-116	1	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	34.4	34.1	69	68	71-121	1	M1
Trichloroethene	ug/L	<1.0	50	50	53.5	53.2	107	106	69-117	1	
Trichlorofluoromethane	ug/L	<1.0	50	50	52.9	52.2	106	104	27-173	1	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 335459 335460

Parameter	Units	7055996006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Vinyl chloride	ug/L	<1.0	50	50	33.6	33.6	67	67	43-143	0	CL
Xylene (Total)	ug/L	<3.0	150	150	143	141	95	94	71-109	1	
1,2-Dichloroethane-d4 (S)	%						102	101	68-153		
4-Bromofluorobenzene (S)	%						105	109	79-124		
Toluene-d8 (S)	%						97	99	69-124		

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Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SIGNORE ANNUAL GW
Pace Project No.: 7055995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7055995001	**EW-1.25-062118**	EPA 8260C/5030C	73077		

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WO#: 7055995

7055995

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2252483

Section A Required Client Information:

Company:	GZA
Address:	300 Pearl St. Suite 700
	Buffalo, NY 14202
Email To:	thomas.bohlen@gza.com
Phone: 716 844-7050	Fax:
Requested Due Date/TAT:	std.

Section B Required Project Information:

Report To:	Thomas Bohlen
Copy To:	
Purchase Order No.:	
Project Name:	Sigmore Annual GW Sampling
Project Number:	21.0056491.79

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	~~John Stanton~~
Pace Profile #:	5780 LI #6

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 TCL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EW-1.25-062118	WT	G	6/21/18	1620	-	-		2				X						X		001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Cat B Reporting & NYSDEC EDA Required	Thomas Bohlen/GZA	6/21/18	1650	PACE	6/21/18	16:50				
					6/22/18	10:15	2.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: GZA

Proj WO#:7055995

PM: CNP Due Date: 06/29/18
CLIENT: GZA

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

Tracking #: 8120 8756 5340

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Ziploc ☐ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 0.0 **Correction Factor:** 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.2 **Cooler Temperature Corrected (°C):** 2.0 **Date/Time 5035A kits placed in freezer** _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) **Date and Initials of person examining contents:** DL 6/22/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☐ Yes	☑ No		3.
Sampler Name & Signature on COC:	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	16.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable): _____				

6/22/18

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

GZA GeoEnvironmental, Inc.

APPENDIX E

IC/EC CERTIFICATION FORM

Enclosure 2

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

Site Details **Box 1**

Site No. **C905034**

Site Name Former Signore, Inc.

Site Address: 55 Jefferson Street Zip Code: 14731
City/Town: Ellicottville
County: Cattaraugus
Site Acreage: 8.430

Reporting Period: March 12, 2018 to March 12, 2019

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

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

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

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

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

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

SITE NO. C905034

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
55.43-1-3.1	Iskalo Ellicottville Holdings, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

i) Prohibition of use of groundwater.
ii) Site use restrictions.
iii) Implementation of the Site Management Plan.

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

Box 5

Periodic Review Report (PRR) Certification Statements

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

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C905034

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I David Chiazza (print name) at Iskalo Development Corp. 5166 Main St., Williamsville, NY (print business address),

am certifying as Manager for Owner (Owner or Remedial Party)

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

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

3.28.19
Date

GZA GeoEnvironmental, Inc.