Lewis S. Streeter
Senior Project Manager

GE
Global Operations - Remediation
1 River Road, Bldg. 5-7W
Schenectady, NY 12345

T 518 388 7552
lewis.streeter@ge.com

January 29, 2021

Ms. Lynn M. Winterberger, P.E.
Chief, RCRA Permitting Section
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7256
(electronic copy via email)

Re: Maintenance and Monitoring Report
GE Global Research Center
River Road, Niskayuna, New York
NYSDEC Site Number: 447013A
USEPA ID Number: NYD071094197

Dear Ms. Winterberger:

Enclosed please find a Maintenance and Monitoring Report prepared by Arcadis of New York, Inc. on behalf of the General Electric Company. This report summarizes the monitoring activities completed in 2020, in accordance with the June 2016 Site Maintenance and Monitoring Work Plan.

If you have any questions regarding this report, please do not hesitate to contact me.

Sincerely,

Lewis S. Streeter
Senior Project Manager

cc: Paul Guilmette, GE GRC, *(electronic copy)*
Doug Weeks, Arcadis*, (electronic copy)*

ARCADIS Design & Consultancy for natural and built assets

General Electric Company

2020 SITE MAINTENANCE AND MONITORING REPORT

General Electric Global Research Center
Niskayuna, New York

NYSDEC SITE NUMBER: 447013A
USEPA ID NUMBER: NYD071094197

January 29, 2021

2020 SITE MAINTENANCE AND MONITORING REPORT

Prepared for:

General Electric Company

Global Research Center

River Road

Niskayuna, New York

Prepared by:

Arcadis of New York, Inc.

855 Route 146

Suite 210

Clifton Park

New York 12065

Tel 518 250 7300

Fax 518 250 7301

Our Ref.:

30006150 (formerly AP015012.4000)

Date:

January 29, 2021

CERTIFICATION OF INSPECTION

In accordance with Appendix III-E of the Resource Conservation and Recovery Act Part 373 Permit for the General Electric Global Research Center, Program Identification Number NYD071094197, New York State Department of Environmental Conservation (NYSDEC) Permit Number 4-4224-00001/00038-0:

> I certify that the cap of the inactive landfill, Solid Waste Management Unit (SWMU) 16, at the General Electric Global Research Center, in Schenectady County, Niskayuna, New York, was inspected on November 30, 2020, and that the overall condition of the cap was good. No significant desiccation, cracking, erosion, or other problems with integrity were observed during the inspection.

Certification by Owner/Operator

01-29-2021

Signature of Owner/Operator

Paul Guilmette

Name (typed or handwritten)

Environmental Program Leader

Title

Certification by Independent Professional Engineer

Signature of Professional Engineer

Registration Number: 067963

State: New York

James M. Nuss

Printed Name of Professional Engineer

Date:

01-29-2021

CONTENTS

Certification of Inspection ii
1 Introduction 1
1.1 Site Background 1
1.2 Site Topography and Surface Hydrology 2
1.3 Soils and Sediments 2
1.4 Geology 3
1.5 Hydrogeology 3
2 Work Scope 3
2.1 Groundwater Monitoring 4
2.2 Landfill Inspection 5
3 Results 5
3.1 Groundwater Field Parameters 6
3.1.1 May 2020 6
3.1.2 November 2020 6
3.2 Analytical Results – November 2020 6
3.2.1 Volatile Organic Compounds 6
3.2.2 General Chemistry and Inorganics 7
3.3 Landfill Inspection 8
4 Summary and Conclusions 8
5 References 9

TABLES

Table 1 May 2020 Groundwater Elevations and Field Groundwater Quality Parameters
Table 2 November 2020 Groundwater Elevations and Field Groundwater Quality Parameters
Table 3 Historic Groundwater Elevations
Table 4 November 2020 Volatile Organic Compound Data
Table 5 November 2020 General Chemisty and Inorganics Data
Table 6 Summary of Historic Volatile Organic Compound Data
Table 7 Summary of Historic General Chemistry and Inorganics Data

FIGURES

Figure 1 Site Plan

Figure 2 Monitoring Well Network

Figure 3 Groundwater Elevation Contour Map May 19, 2020

Figure 4 Groundwater Elevation Contour Map November 30, 2020

Figure 5 Inactive Landfill Inspection Photograph Locations

APPENDICES

Appendix A May 2020 Field Forms

Appendix B November 2020 Field Forms

Appendix C November 2020 Laboratory Analytical Report

Appendix D Landfill Inspection Form

Appendix E Landfill Inspection Photo Log

1 INTRODUCTION

Arcadis of New York, Inc. (Arcadis) has prepared this 2020 Site Maintenance and Monitoring Report on behalf of the General Electric Company (GE) to describe groundwater monitoring and landfill inspection activities performed in 2020 at GE's Global Research Center located on River Road in Niskayuna, New York (the site). Arcadis performed groundwater monitoring during the 2020 calendar year in response to the *Final Statement of Basis Corrective Measures Selection, General Electric Global Research Center, Niskayuna, New York, USEPA ID No. NYD071094197, March 2015* (New York State Department of Environmental Conservation (NYSDEC) 2015) and to satisfy specific requirements in the site's *2012–2022 Hazardous Waste Management Permit, NYSDEC No. 4-4224-00001/00100, General Electric Global Research Center at Niskayuna, USEPA ID No. NYD071094197, Town of Niskayuna, Schenectady County* (Permit) (NYSDEC 2012).

This monitoring was completed in accordance with the June 2016 *Site Maintenance and Monitoring Work Plan* (CB&I 2016). The work plan combined the sampling programs for Solid Waste Management Units (SWMUs) 5, 16, and 24 into a single groundwater monitoring program. Data obtained prior to implementation of the new sampling program are available in the individual reports submitted to NYSDEC by Chester Engineers.

1.1 Site Background

The GE Corporate Research and Development Center encompasses 525 acres and was created in 1965 by the merger of the GE Research Laboratory and the GE Advanced Technology Laboratories. The name of the facility was changed to the Global Research Center in 2002. GE's property is located on the southern bank of the Mohawk River, north of the intersection of Van Antwerp Road and River Road in the Town of Niskayuna, New York. The property is bounded on the north by the Mohawk River, on the east by Knolls Atomic Power Laboratory, and on the west and south by residential and undeveloped properties.

Activities on the property began in the 1950s. Buildings at the Global Research Center have a total of 1.25 million square feet of floor space including offices, laboratories, and support facilities. The Global Research Center is comprised of 13 laboratories conducting research in various fields such as ceramics, metallurgy, electronics, environment, and organic and inorganic chemistry.

On March 31, 1994, the NYSDEC issued the above-noted Part 373 Permit to GE which allowed GE to temporarily store hazardous wastes at the facility. All Part 373 permits include requirements for corrective action that require owners and/or operators of hazardous waste storage facilities to perform a Resource Conservation and Recovery Act (RCRA) Facility Assessment, RCRA Facility Investigation (RFI), and corrective measures to investigate and, when appropriate, remediate releases of hazardous wastes and/or their constituents. As part of the RCRA Facility Assessment, several SWMUs and Areas of Concern were identified within the property. This report provides groundwater monitoring and site maintenance information related to three of the SWMUs (SWMUs 5, 16, and 24) located in the northern portion of the property as shown in **Figure 1** and discussed below.

SWMU 5 – Environmental Control Facility (ECF) – Old Farm Area

GE used this approximate 0.5-acre area between 1949 and 1987 to store laboratory chemicals prior to final disposition via either off-site disposal, on-site incineration, or placement in the on-site landfill. According to the Permit, GE must monitor groundwater conditions and perform an RFI upon closure of this unit. Monitoring wells MW-4, MW-5, and MW-7 are located downgradient from this unit and monitoring well THM-12 is located upgradient from this unit (**Figure 2**).

SWMU 16 – Inactive Landfill

GE used this approximate 0.3-acre area as a landfill that received waste materials that could not be burned in the chemical waste incinerator (including shock sensitive materials and metals), ash, bottles, and other small containers. In 1978, 280 test borings were drilled to establish the limits of the former landfill. Groundwater monitoring wells were installed around the landfill area in 1979. An upgradient stormwater diversion trench and bentonite clay cap were installed at the former landfill in 1981 to minimize rainwater infiltration. Between 1978 and 1981, several of the on-site monitoring wells, including those installed within the fill area, were decommissioned, relocated, or reinstalled for various reasons. The monitoring well network used to monitor groundwater conditions upgradient and downgradient of SWMU 16 consists of monitoring wells THM-12, MW-1, MW-2, and MW-3 (**Figure 2**).

SWMU 24 – Former Chemical Waste Incinerator

GE used this approximate 0.1-acre area for the operation of a chemical waste incinerator from 1957 to 1980 for open pit burning of chemical wastes using acetone as a fuel source. The pit was excavated in 1984 to remove debris and 750 tons of contaminated soil that were disposed off-site as hazardous waste. GE monitors groundwater conditions both upgradient (THM-12) and downgradient (MW-4 and MW-5) of this SWMU annually, as required by the Permit for the Site (**Figure 2**).

1.2 Site Topography and Surface Hydrology

Elevation at the Site ranges from 250 feet to 400 feet above mean sea level. The topography of the site slopes gently toward the Mohawk River in the southern portion of the property, becoming steeper to the north. This slope terminates on a relatively flat river terrace creating two distinct levels to the site.

1.3 Soils and Sediments

The material deposited in the area of the property consists of glacial till containing a high percentage of clay and fluvioglacial deposits of gravel, sand, and clay. The soils on the property are identified as lacustrine silt and clay, and till (Cadwell and Dineen 1987). These units are described as follows:

- **Lacustrine silt and clay**: Silt and clay deposited as bottom sediment in proglacial lakes. Generally composed of calcareous, thinly bedded silt but can be massive. Variable thickness ranging up to 300 feet. Relative permeability very low.
- **Till (Ground Moraine)**: Ice-contact, unsorted, unstratified mixture of clay, silt, sand, gravel, and boulders deposited beneath advancing glacial ice. Relatively impermeable with moderate to large clay content. Thickness variable (up to 150 feet) but generally less than 20 feet on upland hills. Generally yields adequate amount of water for domestic use to large-diameter dug wells.

1.4 Geology

Underlying the unconsolidated material is Ordovician age shale bedrock with minor amounts of sandstone and siltstone, known locally as the Schenectady Formation. The alteration of beds of shale and sandstone seems to follow a definite pattern or cycle comprising a bed of shale in the upper part, of which thin layers of sandstone appear, giving way gradually to sandstone in an upward direction until sandstone is the dominating stratigraphic unit. Carbonate material is present in the layers of shale and sandstone. The Schenectady Formation in the vicinity of the site is flat-lying (dipping generally less than one degree) gray to black shale which is competent at depth but which has a weathered fracture zone near the surface (Halberg et al. 1964).

1.5 Hydrogeology

Based on regional data (Halberg et al. 1964), the Schenectady Formation is a low-producing bedrock aquifer with yields of 0 to 12 gallons per minute (gpm). The median yield from 37 wells (ranging in depth from 175 feet to 209 feet) was 2 gpm, with the best yields from wells completed at depths of about 175 feet. The water obtained from this aquifer is highly mineralized (Arnow 1949).

Monitoring wells in the northern portion of the site, predating the 2002 RFI Report, have groundwater depths ranging from 5 to 15 feet below ground surface. The Schenectady Formation has relatively low hydraulic conductivity across this area of the Site, as indicated by the slow recharge rates of the wells in this area in response to purging. Groundwater flow is northeast across the property to the Mohawk River. There are no domestic or municipal drinking water wells between the facility and the Mohawk River (NYSDEC 1994).

2 WORK SCOPE

GE met with the NYSDEC on August 21, 2015 to discuss the objectives of the site monitoring program. From that discussion, the NYSDEC's goals for the monitoring program are to collect appropriate groundwater quality data upgradient and downgradient of SWMUs 5, 16, and 24 to confirm that potential constituents of concern (COCs) are not migrating from these regulatory units, and to ensure the integrity of the SWMU 16 cap as discussed in the Statement of Basis and the Permit. The following tasks were completed in 2020 to meet these goals:

May 2020 Groundwater Gauging Event:

- Groundwater level gauging of monitoring wells THM-12, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7.
- Collection of groundwater field parameters (i.e., specific conductivity, pH, temperature, oxidation reduction potential, and dissolved oxygen) in monitoring wells THM-12, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7.

November 2020 Groundwater Sampling Event:

- Groundwater level gauging of monitoring wells THM-12, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7.

- Purging, collection of groundwater field parameters (i.e., specific conductivity, pH, temperature, oxidation reduction potential, and dissolved oxygen), and collection of groundwater samples from monitoring wells THM-12, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7, including collection of appropriate quality assurance/quality control (QA/QC) samples (blind duplicate, matrix spike, and matrix spike duplicate).
- Inspection of the inactive landfill surface cover and ancillary above-grade features (SWMU 16).

The results of these work tasks are more fully described in the following sections.

2.1 Groundwater Monitoring

Water levels were measured in site monitoring wells on May 19, 2020 and November 30, 2020 using an oil-water interface probe.

Groundwater sampling was performed on November 30 and December 1, 2020 according to the following procedures:

- The monitoring well cap or flush-mounted lid was unlocked and removed.
- Photoionization detector readings were obtained at the wellhead and recorded in the field logbook.
- The static water level in the well was measured with an oil-water interface probe. The probe was washed with Alconox detergent and water, then triple rinsed with deionized water between individual wells to reduce the potential for cross-contamination.
- The volume of water in the well was calculated and documented on the field sampling forms.
- Each of the wells was purged of at least three well volumes, or until the well went dry, using a dedicated, disposable polyethylene bailer. If the well was purged dry, it was allowed to recharge sufficiently before being sampled.
- Field parameters (i.e., pH, dissolved oxygen, specific conductivity, temperature, and oxidation reduction potential) were collected directly after measuring the water level and then after every one to two additional gallons were purged from the well (interval varied depending on total purge volume required). Purging was considered “complete” once the following conditions were met:
  - Consecutive pH readings within ±0.2 pH units of each other
  - Consecutive water temperatures within ±0.5 degrees Celsius (°C) of each other
  - Consecutive measured specific conductance was within ±10 percent of each other
- Samples were obtained from each well using a dedicated disposable polyethylene bailer suspended on clean nylon twine.
- Samples were placed directly into the appropriate sample bottles, obtained from ALS Environmental Laboratories (ALS) in Rochester, New York.
- Samples were placed directly on ice in a cooler and chilled to at least 4°C. Sample sheet, custody seals, and pertinent chain-of-custody forms were completed. Samples were hand delivered to the ALS Albany Service Center within 24 hours of collection.
- The polyethylene bailers and twine were left down-well for use during future sampling.

- Well caps or lids were replaced on the monitoring wells and the location was re-locked or bolted down, as applicable.[1]

All groundwater samples, including QA/QC samples, were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (USEPA) SW-846 Method 8260C.
- Total recoverable phenolics by USEPA SW-846 Method 9066.
- Dissolved barium by USEPA Method 6010C.
- Chloride by USEPA Method 9056A.
- Total dissolved solids (TDS) by USEPA Method SM 2540 C-1997(2011).
- Total organic carbon (TOC) by USEPA Method SM 5310 C-2000(2011).

A laboratory-prepared trip blank was transported with the sample coolers to and from the laboratory. Laboratory trip blanks accompanied the sample containers for VOC analyses and were analyzed for VOCs via SW-846 Method 8260C.

Purge water was placed in containers provided by GE for disposal at the on-site wastewater treatment plant located within the ECF.

2.2 Landfill Inspection

Inspection of the inactive landfill (SWMU 16) was completed concurrent with the November 2020 groundwater sampling event. The presence and integrity of access restrictions (fence with locking access gate) were confirmed. The overall condition of the landfill cap was assessed for desiccation, cracking, erosion, and any other integrity issues. Visual observations were noted on the landfill inspection form and photographs of the landfill and access restrictions were taken as discussed in Section 3.3. Prior inspection reports and photos were reviewed to confirm no significant change in the condition of the landfill and access restrictions from previous inspections. The 2020 inspection form and photo log are included in **Appendix D** and **Appendix E,** respectively.

3 RESULTS

The required site monitoring events were completed in 2020. No additional well maintenance needs were noted during the 2020 monitoring events.

[1] Four of the seven monitoring wells are stick up wells and have locks on the well cap (MW-1, MW-2, MW-3, and THM-12); the remaining three monitoring wells are flush-mount wells and are bolted down (MW-4, MW-5, and MW-7).

3.1 Groundwater Field Parameters

3.1.1 May 2020

A groundwater gauging event was completed at the site on May 19, 2020. During this event, water levels were measured in monitoring wells THM-12, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 with an oil-water interface probe and static groundwater quality parameters (temperature, specific conductivity, pH, dissolved oxygen, and oxygen reduction potential) were collected. The field sampling data sheets from this event are included in **Appendix A**. Water level data and groundwater quality parameters are presented in **Table 1**. A groundwater contour elevation map created using the data collected during this visit is presented as **Figure 3**. The local groundwater flow direction was determined to be to the east and northeast toward the Mohawk River, consistent with results from previous gauging events.

3.1.2 November 2020

A groundwater sampling event was completed on November 30 and December 1, 2020. During this event, monitoring wells THM-12, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 were gauged, purged, and sampled following the procedures detailed in Section 2.1. The field sampling data sheets from this event are included in **Appendix B**. Groundwater samples were hand delivered to the ALS Service Center in Albany, NY. The laboratory reported receiving these samples the following day in good condition.

The November 30 and December 1, 2020 water level data and groundwater quality parameters are presented in **Table 2**. A groundwater elevation contour map created using the data collected during this sampling event is presented as **Figure 4**. The local groundwater flow direction was determined to be to the east and northeast toward the Mohawk River, consistent with results from previous gauging events. **Table 3** presents a summary of the historic groundwater elevations for the monitoring well network.

3.2 Analytical Results – November 2020

The analytical results for the November 2020 annual groundwater sampling event are summarized in **Table 4** and **Table 5**. A copy of the complete laboratory analytical report is provided in **Appendix C** and the data will be provided to NYSDEC electronically using the EQuIS database.

3.2.1 Volatile Organic Compounds

The 2020 groundwater analytical data for VOCs were compared to the New York State Ground Water Quality Standards (NYSGWQS), as defined in the Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1; NYSDEC 1998).

VOCs were not detected during the 2020 sampling event at monitoring well MW-3, and only estimated concentrations were detected at monitoring wells MW-7 and THM-12, which is consistent with the low and non-detect VOC results observed at these wells during previous sampling events.

Trichloroethene (TCE) was detected in monitoring well MW-4 at a concentration of 6.6 micrograms per liter (µg/L), which is slightly above the NYSGWQS for TCE of 5 µg/L. Cis-1,2-Dichloroethene (cis-1,2-DCE) was also detected in monitoring well MW-4, at a concentration of 5.7 µg/L, which is slightly above the NYSGWQS for cis-1,2-DCE of 5 µg/L. A blind duplicate was collected at monitoring well MW-4; TCE and cis-1,2-DCE were detected in the blind duplicate sample at concentrations similar to those detected in the MW-4 parent sample and above the NYSGWQS.

Benzene was detected in monitoring well MW-2 at a concentration of 1.7 µg/L, which is slightly above the NYSGWQS for Benzene of 1.0 µg/L. 1,2-Dichloroethane was detected in monitoring well MW-2 at a concentration of 1.5 µg/L, which is slightly above the NYSGWQS for 1,2-Dichloroethane of 0.6 µg/L.

All other VOC detections were below the NYSGWQS.

No VOCs were detected above the laboratory method detection limits in the trip blanks. The absence of these COCs in the trip blanks indicates the groundwater samples were not negatively influenced during transit.

VOCs concentrations detected during the November 2020 sampling event are consistent with historical results.

3.2.2 General Chemistry and Inorganics

Groundwater from each of the monitoring wells was analyzed for TOC, chloride, phenolics, TDS, and dissolved barium. Analytical results were compared to the NYSGWQS. A blind duplicate sample was collected at monitoring well MW-4; results from the duplicate are included below in brackets.

Chloride was detected in all seven monitoring wells and the concentration exceeded the NYSGWQS of 250 mg/L in four of the seven wells. Specifically, it was detected in MW-1 at a concentration of 164 mg/L, in MW-2 at 276 mg/L, in MW-3 at 12.9 mg/L, in MW-4 at 179 [179] mg/L, in MW-5 at 2,240 mg/L, in MW-7 at 1,080 mg/L, and in THM-12 at an estimated concentration of 1.9 mg/L.

Total dissolved solids (TDS) were detected in all seven monitoring wells and the concentration exceeded the NYSGWQS of 1,000 mg/L in two of the seven wells. Specifically, TDS was detected in MW-1 at a concentration of 572 mg/L, in MW-2 at 711 mg/L, in MW-3 at 530 mg/L, in MW-4 at 590 [580] mg/L, in MW-5 at 3,730 mg/L, in MW-7 at 2,110 mg/L, and in THM-12 at 412 mg/L.

Dissolved barium was detected in all seven monitoring wells and the concentration exceeded the NYSGWQS of 1000 µg/L in one of the seven wells. Specifically, it was detected in MW-1 at a concentration of 69.4 µg/L, in MW-2 at 2,950 µg/L, in MW-3 at 209 µg/L, in MW-4 at 32.4 [33.6] µg/L, in MW-5 at 305 µg/L, in MW-7 at 217 µg/L, and in THM-12 at 136 µg/L.

Total phenolics were not detected in any of the seven monitoring wells.

General chemistry and inorganic analyte concentrations detected during the November 2020 sampling event are consistent with historical results.

3.3 Landfill Inspection

The inactive landfill (SWMU 16) was inspected on November 30, 2020. The vegetated landfill cap, its surface water diversion ditches, and the security fencing were inspected for signs of erosion, stressed or unkempt vegetation, and opportunities for unauthorized access. The completed Landfill Inspection Form is included as **Appendix D**. Photographs of the landfill cap, diversion ditches, and security fence are included in **Appendix E**. **Figure 5** shows the locations at which the photographs were taken, and the direction facing.

The vegetative cover on the landfill cap appeared to be well maintained. There were no signs of water collection or erosion and the overall condition of the landfill cap was good.

The rock-lined surface water diversion/interceptor ditch located along the west side of the landfill leads to a second diversion ditch located along the north side of the landfill. Both diversion/interceptor ditches were in good condition.

There were no noticeable issues with security and gate access to the landfill and ECF area. The gate was in good condition and could be closed and locked to restrict access to the ECF and landfill areas. Signage on the gated entrance included clearly visible warnings of polychlorinated biphenyls, a danger sign, and a placard with emergency contact information.

The security fence located along the north, south, and east sides of the landfill was in good condition. Several of the fence posts along the western fenceline were leaning in toward the landfill, and one post was observed to be detached from the fence. Additionally, the posts were heaving in some areas and the concrete bases for two of the posts are above grade. A review of last year's report indicates that the overall condition of the western fence line has not changed significantly from last year. These minor fence integrity issues will continue to be monitored but presently do not affect the ability of the fence to function as intended.

4 SUMMARY AND CONCLUSIONS

The historical analytical data for VOCs, inorganics, and general chemistry are presented in **Table 6** and **Table 7**. Data obtained during the November 2020 sampling event are generally consistent with historical trends for the site, showing VOC concentrations have generally decreased with respect to previous sampling events.

Although some minor deficiencies were noted for the fence along the west side of the inactive landfill, it continues to prevent unauthorized access. This section of fence will continue to be evaluated to determine if future repairs are warranted. The south border fence, east border fence, north border fence, north border gabion retaining wall, and the upper and lower drainage ditches are all in good condition.

The monitoring program remains effective in monitoring the groundwater quality at the site. GE will continue to conduct semiannual (May and November) groundwater monitoring events to monitor site conditions. The next monitoring event will be a groundwater gauging event, planned for May 2021.

5 REFERENCES

Arnow, T. 1949. The Groundwater Resources of Albany County, New York: Department of Conservation, Water Power and Control Commission, U.S. Department of the Interior, Bulletin GW-20, 56 p.

Cadwell, D. and R. Dineen. 1987. Surficial geologic map of New York, Hudson-Mohawk: New York State Museum, Geological Survey, Map and Chart Series No. 40, scale 1:250,000, 1 sheet.

CB&I. 2016. *Site Maintenance and Monitoring Work Plan.* June.

Halberg, H.N., O.P. Hunt, and F.H. Pauszek. 1964. Water Resources of the Albany-Schenectady-Troy Area, New York: U.S. Geological Survey Water Supply Paper 1499-D.

NYSDEC. 1994. revised 4/95, RCRA Facility Assessment Preliminary Review, GE Corporate Research and Development Facility, Niskayuna, New York. March 23.

NYSDEC. 2012. *2012-2022 Hazardous Waste Management Permit*, General Electric Global Research Center, Niskayuna, NY, NYSDEC No. 4-4224-00001/00100.

NYSDEC. 2015. *Final Statement of Basis Corrective Measures Selection*, General Electric Global Research Center, Niskayuna, NY, USEPA ID No, NYD071094197. March.

TABLES

Table 1
May 2020 Groundwater Elevations and Field Groundwater Quality Parameters
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	THM-12	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7
Date	5/19/2020	5/19/2020	5/19/2020	5/19/2020	5/19/2020	5/19/2020	5/19/2020
Top of Casing (feet)	331.45	276.39	275.77	276.02	273.46	273.61	274.85
Depth to Water (feet)	7.87	7.59	8.11	17.17	4.50	5.52	7.41
Depth to Bottom (feet)	54.42	19.98	19.89	19.98	22.33	43.69	25.44
Groundwater Elevation (feet)	323.58	268.80	267.66	258.85	268.96	268.09	267.44
Specific Conductivity (mS/cm)	0.567	0.568	1.040	0.713	1.380	6.330	2.820
pH (SU)	7.60	7.54	7.35	7.57	7.12	6.83	6.47
Temperature (°C)	14.90	13.35	13.34	12.73	15.49	13.98	12.85
ORP (mV)	92.0	176.0	164.0	156.0	185.0	209.0	229.0
Dissolved Oxygen (mg/L)	11.72	1.63	0.68	7.27	10.87	2.25	4.42

Notes:

All measurements recorded in feet.

mg/L - Milligrams per liter.

SU - Standard units.

mS/cm - Micro siemens per centimeter.

°C - Degrees Celsius.

mV - Milivolts.

NTU - Nephelometric turbidity units.

ORP - Oxidation reduction potential.

Table 2
November 2020 Groundwater Elevations and Field Groundwater Quality Parameters
2020 Site Maintenance and Monitoring Report
General Electric Global Reserch Center
Niskayuna, New York

Pre-Purge Readings

Well ID	THM-12	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7
Date	11/30/2020	11/30/2020	11/30/2020	11/30/2020	11/30/2020	12/1/2020	11/30/2020
Top of Casing (feet)	331.45	276.39	275.77	276.02	273.46	273.61	274.85
Depth to Water (feet)	5.62	7.78	8.27	15.22	4.18	5.29	7.40
Depth to Bottom (feet)	54.42	19.89	19.83	19.90	22.23	44.48	25.57
Groundwater Elevation(feet)	325.83	268.61	267.50	260.80	269.28	268.32	267.45
Specific Conductivity (mS/cm)	0.659	0.668	0.874	0.862	0.985	7.035	2.289
pH(SU)	7.93	7.73	7.41	8.25	7.04	6.93	7.34
Temperature(°C)	11.34	9.70	10.20	11.39	10.50	12.53	10.34
ORP(mV)	-221.3	-109.4	6.3	-160.6	17.4	-51.6	-91.7
Dissolved Oxygen(mg/L)	3.27	5.20	2.93	6.53	9.87	1.51	4.41

Post-Purge Readings

Well ID	THM-12	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7
Date	12/1/2020	12/1/2020	11/30/2020	12/1/2020	11/30/2020	12/1/2020	12/1/2020
Top of Casing (feet)	331.45	276.39	275.77	276.02	273.46	273.61	274.85
Depth to Water (feet)	9.22	8.99	14.76	17.85	4.18	35.69	8.37
Depth to Bottom (feet)	54.42	19.89	19.83	19.90	22.23	44.48	25.57
Groundwater Elevation (feet)	322.23	267.40	261.01	258.17	269.28	237.92	266.48
Specific Conductivity (mS/cm)	0.785	1.631	1.420	0.876	1.130	7.600	4.221
pH (SU)	7.63	7.53	761.00	7.71	7.34	7.13	7.63
Temperature (°C)	11.36	12.78	11.61	13.00	9.11	11.15	12.43
ORP (mV)	-54.9	-139.9	-229.2	-12.4	11.7	-40.1	-136.7
Dissolved Oxygen (mg/L)	6.37	3.94	1.69	6.40	7.62	3.46	1.93

Notes:

All measurements recorded in feet.

mg/L - Milligrams per liter.

SU - Standard units.

mS/cm - Micro siemens per centimeter.

°C - Degrees Celsius.

mV - Milivolts.

NTU - Nephelometric turbidity units.

NM - Not measured.

ORP - Oxidation reduction potential.

Table 3
Historical Groundwater Elevations
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Gauging Date	MW-1 276.39 ft msl		MW-2 275.77 ft msl		MW-3 276.02 ft msl		MW-4 273.46 ft msl		MW-5 273.61 ft msl		MW-7 274.85 ft msl		THM-12 331.45 ft msl	
	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)	Depth to Water (ft bmpe)	Groundwater Elevation (ft msl)
12/10/14	7.45	268.94	7.93	267.84	14.00	262.02	3.93	269.53	5.63	267.98	NI	NA	11.06	320.39
03/26/15	NM	NA	NM	NA	NM	NA	4.12	269.34	5.46	268.15	NI	NA	7.87	323.58
06/10/15	7.48	268.91	8.02	267.75	14.42	261.60	4.39	269.07	5.44	268.17	NI	NA	10.27	321.18
11/10/15	7.72	268.67	8.85	266.92	15.00	261.02	5.50	267.96	6.45	267.16	NI	NA	14.16	317.29
05/19/16	7.65	268.74	8.38	267.39	15.44	260.58	5.15	268.31	9.00	264.61	NI	NA	7.40	324.05
11/03/16	7.75	268.64	8.65	267.12	14.22	261.80	4.67	268.79	5.72	267.89	7.22	267.63	14.63	316.82
05/11/17	7.63	268.76	7.76	268.01	14.11	261.91	3.94	269.52	6.67	266.94	6.69	268.16	5.36	326.09
11/15/17	8.15	268.24	9.08	266.69	12.79	263.23	5.33	268.13	5.82	267.79	7.65	267.20	12.35	319.10
05/22/18	7.65	268.74	8.21	267.56	18.06	257.96	4.70	268.76	5.34	268.27	7.16	267.69	7.57	323.88
11/26/18	7.27	269.12	7.79	267.98	16.46	259.56	3.66	269.80	5.53	268.08	6.89	267.96	4.80	326.65
05/21/19	7.44	268.95	7.86	267.91	17.76	258.26	4.15	269.31	5.23	268.38	7.06	267.79	6.56	324.89
11/20/19	7.42	268.97	8.11	267.66	15.84	260.18	3.86	269.60	5.25	268.36	7.26	267.59	6.96	324.49
05/19/20	7.59	268.80	8.11	267.66	17.17	258.85	4.50	268.96	5.52	268.09	7.41	267.44	7.87	323.58
11/30/20	7.78	268.61	8.27	267.50	15.22	260.80	4.18	269.28	5.29	268.32	7.40	267.45	8.62	322.83

Notes:

ft msl - Feet above mean sea level based on the National Geodetic Vertical Datum of 1988 (NGVD88).

ft bmpe - Feet below measuring point elevation.

NM - Not measured.

NA - No data available.

NI - Location not installed.

Table 4
November 2020 Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Parameter	New York State Groundwater Standards[(1)]	MW-1 12/1/20	MW-2 11/30/2020	MW-3 12/1/20	MW-4 11/30/2020	MW-5 12/1/20	MW-7 12/1/20	THM-12 12/1/20
Volatile Organic Compounds by USEPA Method 8260C								
1,1,1-Trichloroethane	5	1 .0 U	1 .0 U	1 .0 U	**0.66 J [0.71 J]**	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	**0.44 J**	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	**1.5**	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
2-Chloroethyl vinyl ether	NVG	NM	NM	NM	NM	NM	NM	NM
Acrolein	5	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Acrylonitrile	5	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Benzene	1	1.0 U	**1.7**	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Bromoform	50	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1 .0 U	**3.9 [3.8]**	1.0 U	1.0 U	1.0 U
Chloromethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	**1.4**	**0.3 J**	1 .0 U	**5.7 [6.2]**	**4.6**	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.40**	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Dibromochloromethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Dichloromethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1 .0 U	**0.28 J [0.29 J]**	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	**0.45 J**	1 .0 U	**0.38 J [0.47 J]**	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.40**	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Trichloroethene	5	**1.2**	1.0 U	1 .0 U	**6.6 [6.7]**	**0.89 J**	**0.31 J**	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	**0.45 J**	1 .0 U	2.0 U [2.0 U]	0.2 U	1.0 U	**0.26 J**
m,p-Xylenes	5	2.0 U	**0.4 J**	2.0 U	**0.34 J [0.4 J]**	1.0 U	2.0 U	2.0 U
o-Xylene	5	1.0 U	1.0 U	1 .0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U

Notes:
All concentrations reported in micrograms per liter (µg/L).
(1) New York groundwater standards as given in TOGS 1.1.1 Table 5.
NVG - No standard value listed by NYSDEC.
** - Applies to the sum of cis- and trans-1,3-dichloropropene.
U - Analyte was not detected above reported quantitation limit.
BOLD values indicate that the analyte was detected.
Shaded values indicate that the analyte exceeds the NYSGWQS.
NM - Not measured.

Table 5
November 2020 General Chemistry and Inorganics Dat
a2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Parameter	New York State Groundwater Standards[(1)]	Units	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7	THM-12
			12/1/2020	11/30/2020	12/1/2020	11/30/2020	12/1/2020	12/1/2020	12/1/2020
General Chemistry Parameters									
Total Organic Carbon	NVG	mg/L	**2.3**	**1**	**1.1**	**2.2 [2.3]**	**1.6**	**1.2**	**2.3**
Chloride	250	mg/L	**164**	**276**	**12.9**	**179 [179]**	**2240**	**1080**	**1.9 J**
Total Recoverable Phenolics	0.001	mg/L	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Total Dissolved Solids	1,000	mg/L	**572**	**711**	**530**	**590 [580]**	**3730**	**2110**	**412**
Inorganic Parameters									
Dissolved Barium	1,000	µg/L	**69.4**	**2950**	**209**	**32.4 [33.6]**	**305**	**217**	**136**

Notes:
General chemistry concentrations reported in millligrams per liter (mg/L, equivalent to parts per million).
Inorganic concentrations reported in micrograms per liter (µg/L, equivalent to parts per billion).
[(1)] New York groundwater standards as given in TOGS 1.1.1 Table 5.
BOLD values indicate that the analyte was detected.
Shaded values indicate that the analyte exceeds the New York State Groundwater Quality Standards.
NVG - No standard value listed by NYSDEC.
U - Analyte was not detected above reported quantitation limit.

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	New York Groundwater Standards[1]	MW-1								
Date		12/10/14	03/26/15	06/10/15	11/10/15	11/03/16	11/16/17	11/27/18	11/20/19	12/01/20
1,1,1-Trichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1 .0 U
1,1,2,2-Tetrachloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1,2-Trichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.25 U	1.0 U
1,2-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloroethane	0.6	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloropropane	1	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,3-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,4-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
2-Chloroethyl vinyl ether	NVG	10 U	NS	1 .0 U	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	50 U	NS	10 U	10 U	10 U	20 U	5.0 U	0.9 U	5.0 U
Acrylonitrile	5	50 U	NS	10 U	10 U	10 U	5 .0 U	5.0 U	0.9 U	5.0 U
Benzene	1	1 .0 U	NS	0.50 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Bromodichloromethane	50	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.22 U	1.0 U
Bromoform	50	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
Bromomethane	5	2 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.7 U	1.0 U
Carbon tetrachloride	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.34 U	1.0 U
Chlorobenzene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Chloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.23 U	1.0 U
Chloroform	7	1 .0 U	NS	**0.82 J**	**0.41 J**	**0.27 J**	**0.43 J**	1.0 U	0.24 U	1.0 U
Chloromethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.28 U	1.0 U
cis-1,2-Dichloroethene	5	**1.8**	NS	**2.6**	**2.0**	**1.0**	1 .0 U	**1.7**	**1.3**	**1.4**
cis-1,3-Dichloropropene	0.40**	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dibromochloromethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dichlorodifluoromethane	5	5 .0 U	NS	5 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.21 U	1.0 U
Dibromomethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	**0.61 J**	1.0 U	0.36 U	1.0 U
Ethylbenzene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Tetrachloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
Toluene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,2-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	0.40**	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Trichloroethene	5	**1.3**	NS	**2.5**	**1.4**	**0.96 J**	**2.4**	**1.3**	**1.4**	**1.2**
Trichlorofluoromethane	5	5 .0 U	NS	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Vinyl chloride	2	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.2 U	1.0 U
m,p-Xylenes	5	2 .0 U	NS	2 .0 U	2 .0 U	2 .0 U	2 .0 U	1.0 U	0.2 U	2.0 U
o-Xylene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	2.0 U	0.2 U	1.0 U

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	New York Groundwater Standards[(1)]	MW-2								
Date		12/09/14	03/26/15	06/09/15	11/10/15	11/03/16	11/15/17	11/27/18	11/20/19	11/30/20
1,1,1-Trichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1 .0 U
1,1,2,2-Tetrachloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1,2-Trichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
1,2-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloroethane	0.6	**1.3**	NS	**1.1**	**0.69**	**0.51 J**	**1.1**	1.0 U	**1.2**	**1.5**
1,2-Dichloropropane	1	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,3-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,4-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
2-Chloroethyl vinyl ether	NVG	10 U	NS	1 .0 U	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	50 U	NS	10 U	10 U	10 U	20 U	5.0 U	0.9 U	5.0 U
Acrylonitrile	5	50 U	NS	10 U	10 U	10 U	5 .0 U	5.0 U	0.9 U	5.0 U
Benzene	1	**1.9**	NS	**1.6**	**0.88 J**	**0.41 J**	**1.6**	**1.1**	**2.0**	**1.7**
Bromodichloromethane	50	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.22 U	1.0 U
Bromoform	50	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
Bromomethane	5	2 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.7 U	1.0 U
Carbon tetrachloride	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.34 U	1.0 U
Chlorobenzene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Chloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Chloroform	7	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Chloromethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.28 U	1.0 U
cis-1,2-Dichloroethene	5	1 .0 U	NS	**0.28 J**	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	**0.3 J**
cis-1,3-Dichloropropene	0.40**	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dibromochloromethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dichlorodifluoromethane	5	5 .0 U	NS	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
Dibromomethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.36 U	1.0 U
Ethylbenzene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Tetrachloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
Toluene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	**0.45 J**
trans-1,2-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	0.40**	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Trichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Trichlorofluoromethane	5	5 .0 U	NS	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Vinyl chloride	2	**0.48 J**	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	**0.45 J**
m,p-Xylenes	5	2 .0 U	NS	2 .0 U	2 .0 U	2 .0 U	2 .0 U	1.0 U	0.2 U	**0.4 J**
o-Xylene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	2.0 U	0.2 U	1.0 U

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	New York Groundwater Standards[1]	MW-3								
Date		12/10/14	03/26/15	06/09/15	11/10/15	11/03/16	11/16/17	11/27/18	11/21/19	12/01/20
1,1,1-Trichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1 .0 U
1,1,2,2-Tetrachloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,1,2-Trichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,1-Dichloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,1-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.25 U	1 .0 U
1,2-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,2-Dichloroethane	0.6	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,2-Dichloropropane	1	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,3-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
1,4-Dichlorobenzene	3	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
2-Chloroethyl vinyl ether	NVG	10 U	NS	1 .0 U	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	50 U	NS	10 U	10 U	10 U	20 U	5.0 U	0.9 U	5.0 U
Acrylonitrile	5	50 U	NS	10 U	10 U	10 U	5 .0 U	5.0 U	0.9 U	5.0 U
Benzene	1	1 .0 U	NS	0.50 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
Bromodichloromethane	50	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.22 U	1 .0 U
Bromoform	50	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1 .0 U
Bromomethane	5	2 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.7 U	1 .0 U
Carbon tetrachloride	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.34 U	1 .0 U
Chlorobenzene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
Chloroethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.23 U	1 .0 U
Chloroform	7	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1 .0 U
Chloromethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.28 U	1 .0 U
cis-1,2-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1 .0 U
cis-1,3-Dichloropropene	0.40**	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
Dibromochloromethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
Dichlorodifluoromethane	5	5 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.21 U	1 .0 U
Dibromomethane	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	**0.60 J**	1.0 U	0.36 U	1 .0 U
Ethylbenzene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
Tetrachloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1 .0 U
Toluene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
trans-1,2-Dichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
trans-1,3-Dichloropropene	0.40**	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1 .0 U
Trichloroethene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1 .0 U
Trichlorofluoromethane	5	5 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1 .0 U
Vinyl chloride	2	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.2 U	1 .0 U
m,p-Xylenes	5	2 .0 U	NS	2 .0 U	2 .0 U	2 .0 U	2 .0 U	1.0 U	0.2 U	2.0 U
o-Xylene	5	1 .0 U	NS	1 .0 U	1 .0 U	1 .0 U	1 .0 U	2.0 U	0.2 U	1 .0 U

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	New York Groundwater Standards[1]	MW-4									
Date		12/10/14	03/26/15	06/10/15	11/10/15	08/18/16	11/03/16	11/15/17	11/27/18	11/20/19	11/30/20
1,1,1-Trichloroethane	5	1 .0 U	**0.37 J**	**0.53 J**	**0.69 J**	1 .0 U	**0.90 J**	1 .0 U	1.0 U [1.0 U]	0.21 U [0.21 U]	**0.66 J [0.71 J]**
1,1,2,2-Tetrachloroethane	5	1 .0 U	**0.52 J**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,1,2-Trichloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,1-Dichloroethane	5	1 .0 U	1 .0 U	1 .0 U	**0.77 J**	**2.2**	**0.49 J**	**0.86 J**	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,1-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	**0 .0 U30 J**	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.25 U [0.25 U]	1.0 U [1.0 U]
1,2-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	**2.9**	**9.4**	**0.33 J**	**4.3**	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,2-Dichloroethane	0.6	1 .0 U	1 .0 U	1 .0 U	**0.65 J**	1 .0 U	1 .0 U	**1.1**	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,2-Dichloropropane	1	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,3-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
1,4-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	**0.82 J**	**1.1**	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
2-Chloroethyl vinyl ether	NVG	10 U	10 U	10 U	1 .0 U	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	50 U	50 U	50 U	10 U	10 U	10 U	20 U	5.0 U [5.0 U]	0.9 U [0.9 U]	5.0 U [5.0 U]
Acrylonitrile	5	50 U	50 U	50 U	10 U	10 U	10 U	5 .0 U	5.0 U [5.0 U]	0.9 U [0.9 U]	5.0 U [5.0 U]
Benzene	1	1 .0 U	1 .0 U	0.50 U	1 .0 U	**2.8**	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
Bromodichloromethane	50	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.22 U [0.22 U]	1.0 U [1.0 U]
Bromoform	50	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.25 U [0.25 U]	1.0 U [1.0 U]
Bromomethane	5	2 .0 U	2 .0 U	2 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.7 U [0.7 U]	1.0 U [1.0 U]
Carbon tetrachloride	5	1 .0 U	**1.5**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.34 U [0.34 U]	1.0 U [1.0 U]
Chlorobenzene	5	1 .0 U	1 .0 U	1 .0 U	**0.85 J**	**5.7**	1 .0 U	**1.4**	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
Chloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.23 U [0.23 U]	1.0 U [1.0 U]
Chloroform	7	**1.8 B**	**4.3**	**3.9**	**3.7**	**3.7**	**5.1**	**2.5**	1.0 U [1.0 U]	**1.5 [1.5]**	**3.9 [3.8]**
Chloromethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.28 U [0.28 U]	1.0 U [1.0 U]
cis-1,2-Dichloroethene	5	**11.5**	**10.4**	**19.2**	**14**	**33.8**	**11**	**14**	**5.1 [4.5]**	**8.4 [8.7]**	**5.7 [6.2]**
cis-1,3-Dichloropropene	0.40**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
Dibromochloromethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
Dichlorodifluoromethane	5	5 .0 U	5 .0 U	5 .0 U	1 .0 U	**0.81 J**	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.21 U [0.21 U]	1.0 U [1.0 U]
Dibromomethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.36 U [0.36 U]	1.0 U [1.0 U]
Ethylbenzene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
Tetrachloroethene	5	**0.57 J**	**0.57 J**	**1.1**	**0.76 J**	**0.57 J**	**0.67 J**	**0.66 J**	1.0 U [1.0 U]	0.21 U [0.21 U]	**0.28 J [0.29 J]**
Toluene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	**0.38 J [0.47 J]**
trans-1,2-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	**0.57 J**	**0.33 J**	1 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	1.0 U [1.0 U]
trans-1,3-Dichloropropene	0.40**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.23 U [0.23 U]	1.0 U [1.0 U]
Trichloroethene	5	**10.2**	**11.4**	**20.7**	**12**	**7.9**	**12**	**11**	**6.6 [1.0 U]**	**7.2 [7.4]**	**6.6 [6.7]**
Trichlorofluoromethane	5	5 .0 U	5 .0 U	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U [1.0 U]	0.24 U [0.24 U]	1.0 U [1.0 U]
Vinyl chloride	2	1 .0 U	1 .0 U	1 .0 U	**0.97 J**	**11.1**	1 .0 U	**1.8**	1.0 U [1.0 U]	0.2 U [0.2 U]	2.0 U [2.0 U]
m,p-Xylenes	5	2 .0 U	2 .0 U	2 .0 U	2 .0 U	**1.8 J**	2 .0 U	2 .0 U	1.0 U [1.0 U]	0.2 U [0.2 U]	**0.34 J [0.4 J]**
o-Xylene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	**0.65 J**	1 .0 U	1 .0 U	2.0 U	0.2 U [0.2 U]	1.0 U [1.0 U]

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	New York Groundwater Standards[1]	MW-5									
Date		12/10/14	03/25/15	06/10/15	11/10/15	08/18/16	11/03/16	11/15/17	11/27/18	11/20/19	12/01/20
1,1,1-Trichloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1,2-Trichloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethane	5	1 .0 U	1 .0 U	1 .0 U	**0.20 J**	**0.38 J**	**0.32 J**	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
1,2-Dichlorobenzene	3	1 .0 U	1 .0 U	**0.50 J**	**0.45 J**	**2.8**	**1.5**	1 .0 U	1.0 U	0.2 U	**0.44 J**
1,2-Dichloroethane	0.6	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloropropane	1	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,3-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,4-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	1 .0 U	**0.38 J**	**0.23 J**	1 .0 U	1.0 U	0.2 U	1.0 U
2-Chloroethyl vinyl ether	NVG	10 U	10 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	50 U	50 U	50 U	10 U	10 U	10 U	20 U	5.0 U	0.9 U	5.0 U
Acrylonitrile	5	50 U	50 U	50 U	10 U	10 U	10 U	5 .0 U	5.0 U	0.9 U	5.0 U
Benzene	1	1 .0 U	1 .0 U	**0.45 J**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Bromodichloromethane	50	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.22 U	1.0 U
Bromoform	50	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
Bromomethane	5	2 .0 U	2 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.7 U	1.0 U
Carbon tetrachloride	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.34 U	1.0 U
Chlorobenzene	5	1 .0 U	1 .0 U	**0.86 J**	1 .0 U	1 .0 U	**0.46 J**	1 .0 U	1.0 U	0.2 U	1.0 U
Chloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Chloroform	7	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Chloromethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.28 U	1.0 U
cis-1,2-Dichloroethene	5	**8.8**	**6.4**	**15.8**	**6.1**	**24.5**	**15**	**1.7**	**4.8**	**3.4**	**4.6**
cis-1,3-Dichloropropene	0.40**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dibromochloromethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dichlorodifluoromethane	5	5 .0 U	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.21 U	1.0 U
Dibromomethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.36 U	1.0 U
Ethylbenzene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Tetrachloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
Toluene	5	1 .0 U	1 .0 U	1 .0 U	**0.30 J**	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,2-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	**0.40 J**	**0.36 J**	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	0.40**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Trichloroethene	5	**1.4**	**1.0**	**3.2**	**1.5**	**6.1**	**2.9**	1 .0 U	1.0 U	0.2 U	**0.89 J**
Trichlorofluoromethane	5	5 .0 U	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Vinyl chloride	2	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	0.2 U
m,p-Xylenes	5	2 .0 U	2 .0 U	2 .0 U	2 .0 U	**0.66 J**	2 .0 U	2 .0 U	1.0 U	0.2 U	1.0 U
o-Xylene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	2.0 U	0.2 U	1.0 U

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	New York Groundwater Standards[1]	MW-7									
Date		12/10/14	03/25/15	06/10/15	11/10/15	08/18/16	11/03/16	11/16/17	11/27/18	11/20/19	12/01/20
1,1,1-Trichloroethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
1,1,2,2-Tetrachloroethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1,2-Trichloroethane	5	NI	NI	NI	NI	1 .0 U	**0.34 J**	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.25 U	1.0 U
1,2-Dichlorobenzene	3	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloroethane	0.6	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloropropane	1	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,3-Dichlorobenzene	3	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,4-Dichlorobenzene	3	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
2-Chloroethyl vinyl ether	NVG	NI	NI	NI	NI	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	NI	NI	NI	NI	10 U	10 U	20 U	5.0 U	0.9 U	5.0 U
Acrylonitrile	5	NI	NI	NI	NI	10 U	10 U	5 .0 U	5.0 U	0.9 U	5.0 U
Benzene	1	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Bromodichloromethane	50	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.22 U	1.0 U
Bromoform	50	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
Bromomethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.7 U	1.0 U
Carbon tetrachloride	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.34 U	1.0 U
Chlorobenzene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Chloroethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.23 U	1.0 U
Chloroform	7	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Chloromethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.28 U	1.0 U
cis-1,2-Dichloroethene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
cis-1,3-Dichloropropene	0.40**	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dibromochloromethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dichlorodifluoromethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.21 U	1.0 U
Dibromomethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	**0.48 J**	1.0 U	0.36 U	1.0 U
Ethylbenzene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Tetrachloroethene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
Toluene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,2-Dichloroethene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	0.40**	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Trichloroethene	5	NI	NI	NI	NI	1 .0 U	**0.67 J**	1 .0 U	1.0 U	0.2 U	**0.31 J**
Trichlorofluoromethane	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Vinyl chloride	2	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.2 U	1.0 U
m,p-Xylenes	5	NI	NI	NI	NI	2 .0 U	2 .0 U	2 .0 U	1.0 U	0.2 U	2.0 U
o-Xylene	5	NI	NI	NI	NI	1 .0 U	1 .0 U	1 .0 U	2.0 U	0.2 U	1.0 U

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID / Date	New York Groundwater Standards[1]	THM-12									
		12/11/14	03/26/15	06/10/15	11/10/15	05/19/16	11/03/16	11/16/17	11/27/18	11/21/19	12/01/20
1,1,1-Trichloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1,2-Trichloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,1-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.25 U	1.0 U
1,2-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloroethane	0.6	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,2-Dichloropropane	1	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,3-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
1,4-Dichlorobenzene	3	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
2-Chloroethyl vinyl ether	NVG	10 U	10 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	5 .0 U	NM	NM	NM
Acrolein	5	50 U	50 U	50 U	10 U	10 U	10 U	20 U	5.0 U	0.9 U	5.0 U
Acrylonitrile	5	50 U	50 U	50 U	10 U	10 U	10 U	5 .0 U	5.0 U	0.9 U	5.0 U
Benzene	1	1 .0 U	1 .0 U	0.50 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Bromodichloromethane	50	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.22 U	1.0 U
Bromoform	50	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.25 U	1.0 U
Bromomethane	5	2 .0 U	2 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.7 U	1.0 U
Carbon tetrachloride	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.34 U	1.0 U
Chlorobenzene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Chloroethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.23 U	1.0 U
Chloroform	7	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Chloromethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.28 U	1.0 U
cis-1,2-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
cis-1,3-Dichloropropene	0.40**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dibromochloromethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Dichlorodifluoromethane	5	5 .0 U	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U *	1.0 U	0.21 U	1.0 U
Dibromomethane	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	**0.46 J**	1.0 U	0.36 U	1.0 U
Ethylbenzene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Tetrachloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.21 U	1.0 U
Toluene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,2-Dichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	0.40**	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.23 U	1.0 U
Trichloroethene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.2 U	1.0 U
Trichlorofluoromethane	5	5 .0 U	5 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1.0 U	0.24 U	1.0 U
Vinyl chloride	2	1 .0 U	1 .0 U	1 .0 U	**4.6**	1 .0 U	**0.67 J**	1 .0 U *	1.0 U	0.2 U	**0.26 J**
m,p-Xylenes	5	2 .0 U	2 .0 U	2 .0 U	2 .0 U	2 .0 U	2 .0 U	2 .0 U	1.0 U	0.2 U	2.0 U
o-Xylene	5	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	1 .0 U	2.0 U	0.2 U	1.0 U

Table 6
Summary of Historical Volatile Organic Compound Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Notes:

All concentrations reported in micrograms per liter (µg/L, equivalent to parts per billion).

(1) New York groundwater standards as given in TOGS 1.1.1 Table 5.

U - Indicates that the analyte was not detected at the reporting limit shown.

BOLD values indicate that the analyte was detected.

Shaded values indicate that the analyte exceeds the NYSGWQS.

** - Applies to the sum of cis- and trans-1,3-dichloropropene.

* - Results flagged with an asterisk (*) indicate values outside control criteria.

J - Indicates an estimated concentration below the Reporting Limit, but greater than the Method Detection Limit.

NVG - No standard value listed by NYSDEC.

NS - No sample collected.

NI - Not installed.

Table 7
Summary of Historical General Chemistry and Inorganics Data
2020 Site Maintenance and Monitoring Report
General Electric Global Research Center
Niskayuna, New York

Well ID	Date	General Chemistry				Inorganics
		TOC	Chloride	Phenolics	TDS	Barium
New York Groundwater Standards[1]		NVG	250	0.001	1,000	1,000
Units		mg/L	mg/L	mg/L	mg/L	µg/L
MW-1	12/10/14	3	40.7	0.001	343	200 U
	03/26/15	NS	NS	NS	NS	NS
	06/10/15	3	34.9	0.0050 U	388	200 U
	11/10/15	2.6	14.9	0.0020 U	375	54
	11/03/16	3.0	18.4	0.0020 U	374	48
	11/16/17	2.6 B	58 B	0.0010 U	472	85.1
	11/27/18	2.6	259	0.0020 U	747	158
	11/20/19	2.5	84.5	0.001 U	445	56.9
	12/01/20	2.3	164	0.001 U	572	69.4
MW-2	12/09/14	2.2	192	0.0050 U	584	2,130
	03/26/15	NS	NS	NS	NS	NS
	06/09/15	2	83.3	0.0050 U	463	1,730
	11/10/15	1.1	139	0.0020 U	488	2,210
	11/03/16	1.2	276	0.0020 U	628	2,270
	11/15/17	0.97 J B	224 B	0.0010 U	722	2,660
	11/27/18	1.5	405	0.0020 U	993	3,630
	11/20/19	1.2	428	0.001 U	984	3,660
	11/30/20	1	276	0.001 U	711	2950
MW-3	12/10/14	1.6	14	0.0050 U	465	1.0 U
	03/26/15	NS	NS	NS	NS	NS
	06/09/15	1.9	13.8	0.0050 U	512	217
	11/10/15	1.6	14.4	0.0020 U	541	211
	11/03/16	1.4	14.1	0.0020 U	543	209
	11/16/17	1.1 B	NS	0.0010 U	NS	214
	11/27/18	1.6	12.5	0.0020 U	583	214
	11/21/19	1.2	14.4	0.001 U	546	189
	12/01/20	1.1	12.9	0.001 U	530	209
MW-4	12/10/14	NS	NS	NS	NS	200 UJ
	03/26/15	NS	NS	NS	NS	NS
	06/10/15	NS	NS	NS	NS	NS
	11/10/15	2.7	353	0.0020 U	881	57
	11/03/16	2.5	411	0.0020 U	938	151
	11/15/17	2.4 B	175 B	0.0010 U	691	37.4
	11/27/18	2.8 [2.4]	510 [1,620]	0.0020 U	1,160 [3,370]	70 [255]
	11/20/19	2.2 [2.7]	569 [579]	0.001 U [0.001 U]	1,150 [1,170]	66.9 [67.4]
	11/30/20	2.2 [2.3]	179 [179]	0.001 U [0.001 U]	590 [580]	32.4 [33.6]
MW-5	12/10/14	NS	NS	NS	NS	247
	03/26/15	NS	NS	NS	NS	NS
	06/10/15	NS	NS	NS	NS	NS
	11/10/15	1.9	2,620	0.0040 U	5,150	317
	11/03/16	3.0	2,780	0.0080 U	3,560	245
	11/15/17	1.8 B	2,430 B	0.0010 U	4,620	336
	11/27/18	2.3	1,640	0.0020 U	3,370	253
	11/20/19	2	2,180	0.001 U	3,930	311
	12/01/20	1.6	2240	0.001 U	3730	305
MW-7	12/10/14	NI	NI	NI	NI	NI
	03/26/15	NI	NI	NI	NI	NI
	06/10/15	NI	NI	NI	NI	NI
	11/10/15	NI	NI	NI	NI	NI
	11/03/16	2.6	1,060	0.0040 U	1,980	185
	11/16/17	1.6 B	944 B	0.0057 J	2,020	307
	11/27/18	3.8	87.1	0.0020 U	397	39
	11/20/19	2.1	1,220	0.0027	2,340	237
	12/01/20	1.2	1080	0.001 U	2110	217
THM-12	12/11/14	7.7	2.0 U	0.0050 U	418	200 U
	03/26/15	NS	NS	NS	NS	NS
	06/10/15	4.5	2.0 U	0.0050 U	369	200 U
	11/10/15	1.3	2.0 U	0.0020 U	396	111
	11/03/16	1.0 U	2.0 U	0.0020 U	342	111
	11/16/17	1.2 B	1.7 B	0.0010 U	432	153
	11/27/18	6.1	2.0 U	0.0036	384	142
	11/21/19	2.5	0.5 U	0.001 U	405	108
	12/01/20	2.3	1.9 J	0.001 U	412	136

Notes:

General chemistry concentrations reported in milligrams per liter (mg/L, equivalent to parts per million).

Inorganic concentrations reported in micrograms per liter (µg/L, equivalent to parts per billion).

[1] New York groundwater standards as given in TOGS 1.1.1 Table 5.

< - Indicates that the analyte was not detected at the reporting limit shown.

BOLD values indicate that the analyte was detected.

Shaded values indicate that the analyte exceeds the NYSGWQS.

NVG - No standard value listed by NYSDEC.

NS - No sample collected.

NI - Not installed.

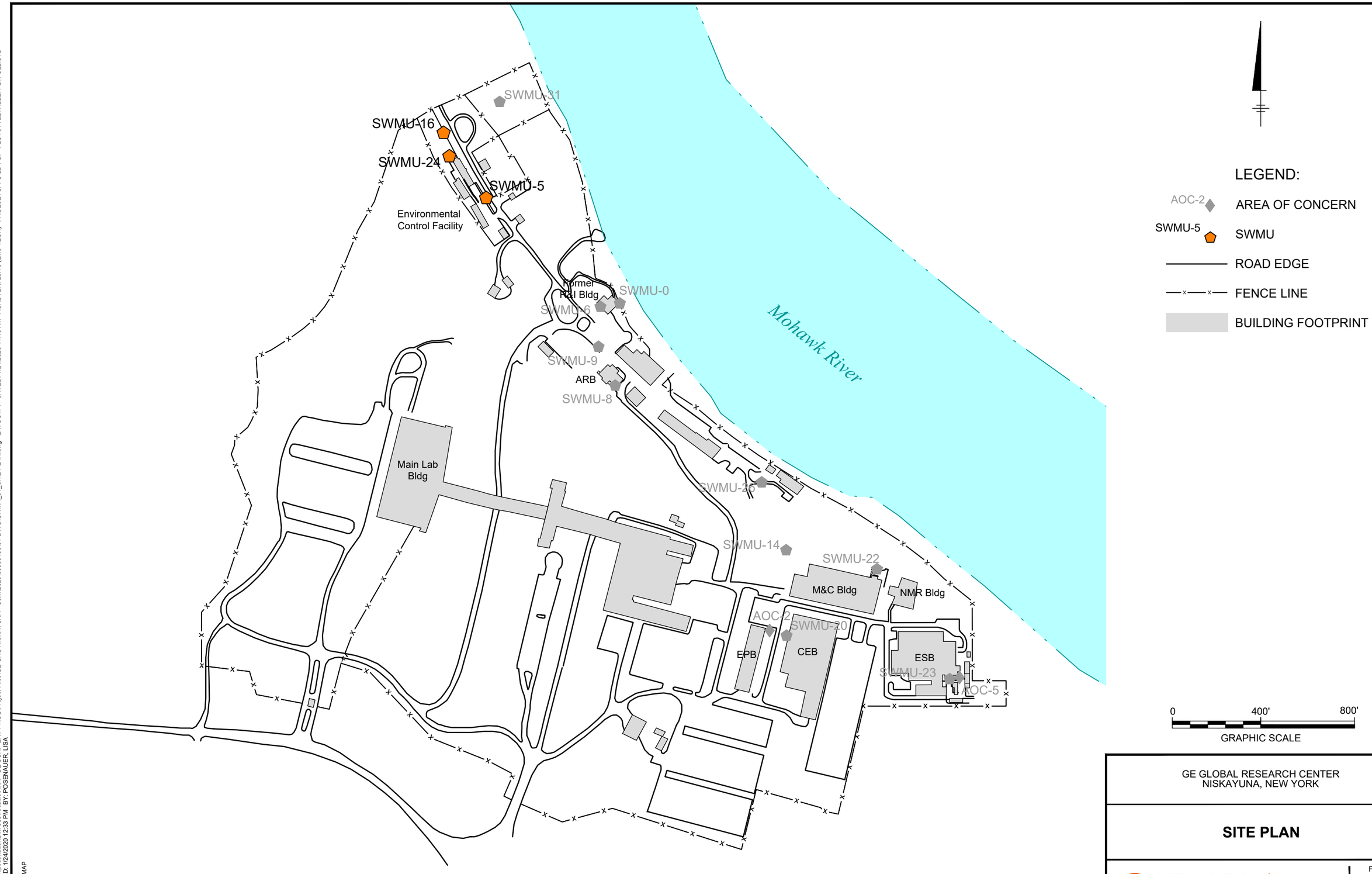
B - Indicates that the method blank was contaminated.

J - Indicates an estimated concentration below the Reporting Limit, but greater than the Method Detection Limit.

TDS - Total Dissolved Solids.

TOC - Total Organic Carbon.

FIGURES



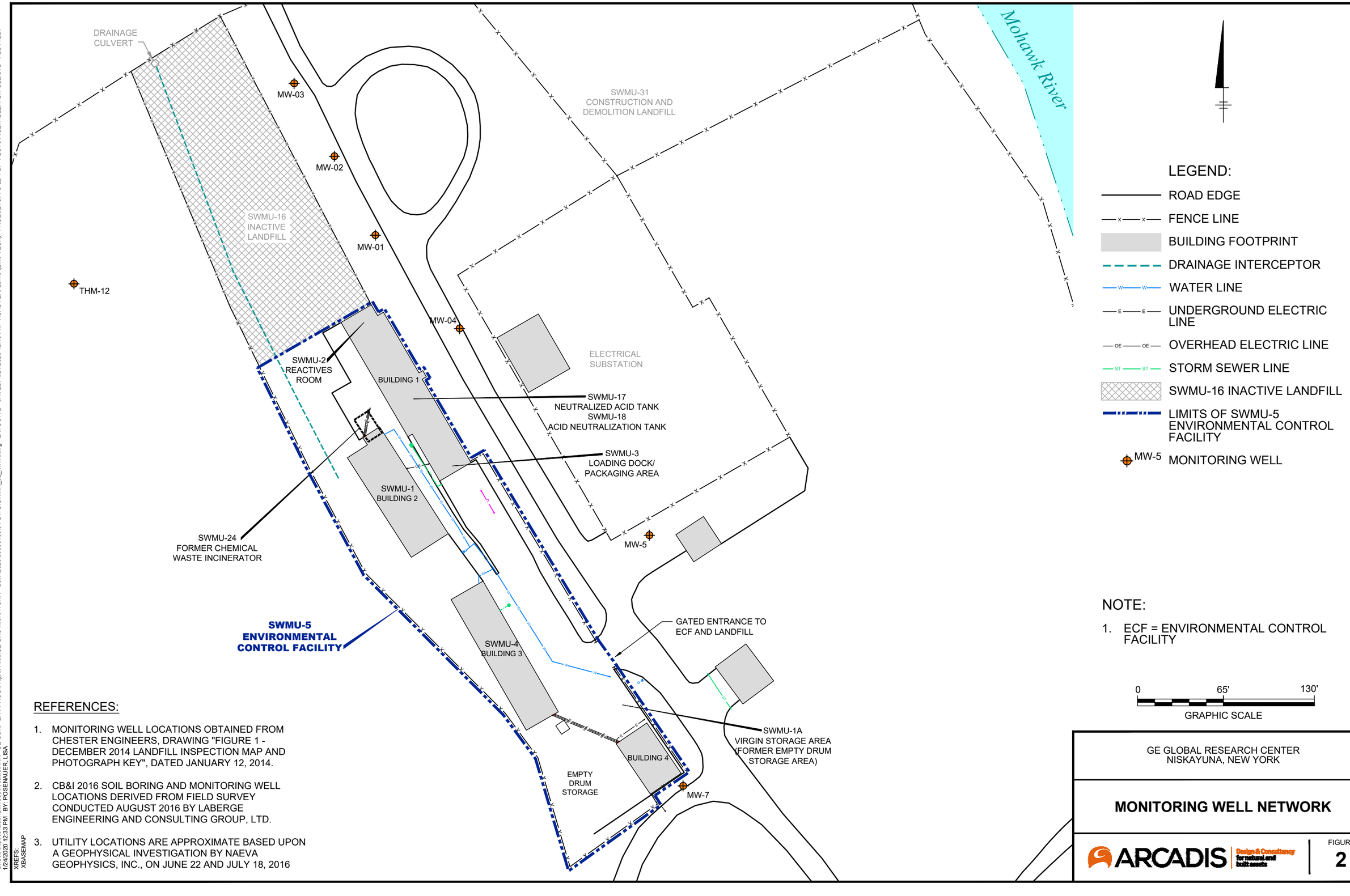
GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: SYRACUSE, NY DIV/GROUP: IM/DV DB: L.POSENAUER PM/TM: D.WEEKS LYR:(Opt)ON=*;OFF=*REF*
C:\Users\lposenauer\BIM 360\Arcadis\ANA - GE CORP ENV PROG\Project Files\GE GRC NISKAYUNA - O&M\2020\3000615\01-DWG\GWMR_01_SITE PLAN.dwg LAYOUT: 1 SAVED: 1/24/2020 11:13 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: C:LB-PDF PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 1/24/2020 12:33 PM BY: POSENAUER, LISA
XREFS:
XBASEMAP



REFERENCES:

1. MONITORING WELL LOCATIONS OBTAINED FROM CHESTER ENGINEERS, DRAWING "FIGURE 1 - DECEMBER 2014 LANDFILL INSPECTION MAP AND PHOTOGRAPH KEY", DATED JANUARY 12, 2014.
2. CB&I 2016 SOIL BORING AND MONITORING WELL LOCATIONS DERIVED FROM FIELD SURVEY CONDUCTED AUGUST 2016 BY LABERGE ENGINEERING AND CONSULTING GROUP, LTD.
3. UTILITY LOCATIONS ARE APPROXIMATE BASED UPON A GEOPHYSICAL INVESTIGATION BY NAEVA GEOPHYSICS, INC., ON JUNE 22 AND JULY 18, 2016

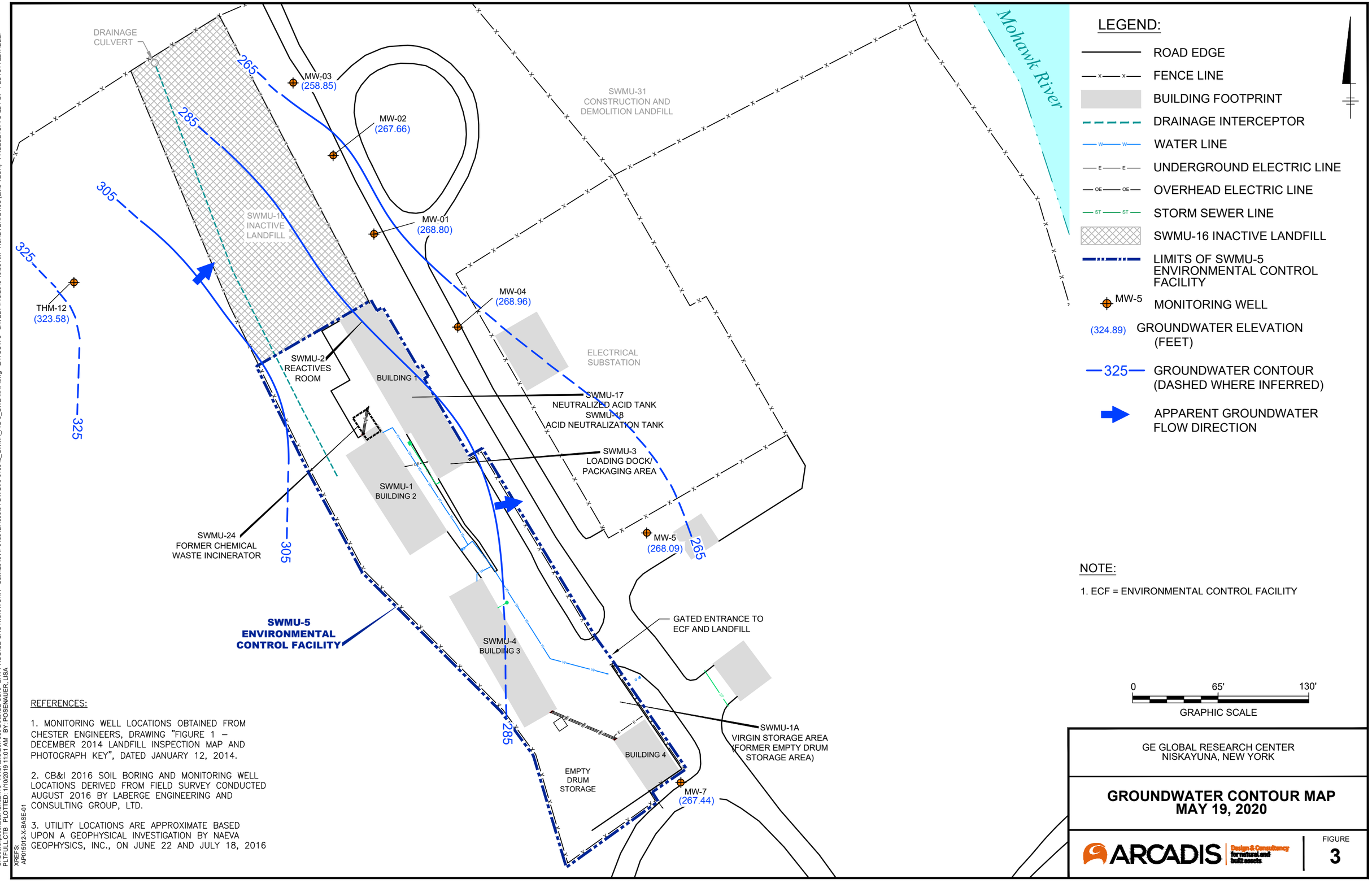
GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK

MONITORING WELL NETWORK

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SYRACUSE, NY DIV/GROUP: IM/DV DB: L.POSENAUER PM/TM: D.WEEKS LYR:(Opt)ON=*;OFF=*REF*
C:\Users\lposenauer\BIM 360\Arcadis\ANA - GE CORP ENV PROG\Project Files\GE GRC NISKAYUNA - O&M\2020\3000615001-DWG\GWMR_02_MWN.dwg LAYOUT: 2 SAVED: 1/24/2020 12:18 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: C-LB-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/24/2020 12:33 PM BY: POSENAUER, LISA
XREFS:
XBASEMAP



REFERENCES:

1. MONITORING WELL LOCATIONS OBTAINED FROM CHESTER ENGINEERS, DRAWING "FIGURE 1 – DECEMBER 2014 LANDFILL INSPECTION MAP AND PHOTOGRAPH KEY", DATED JANUARY 12, 2014.

2. CB&I 2016 SOIL BORING AND MONITORING WELL LOCATIONS DERIVED FROM FIELD SURVEY CONDUCTED AUGUST 2016 BY LABERGE ENGINEERING AND CONSULTING GROUP, LTD.

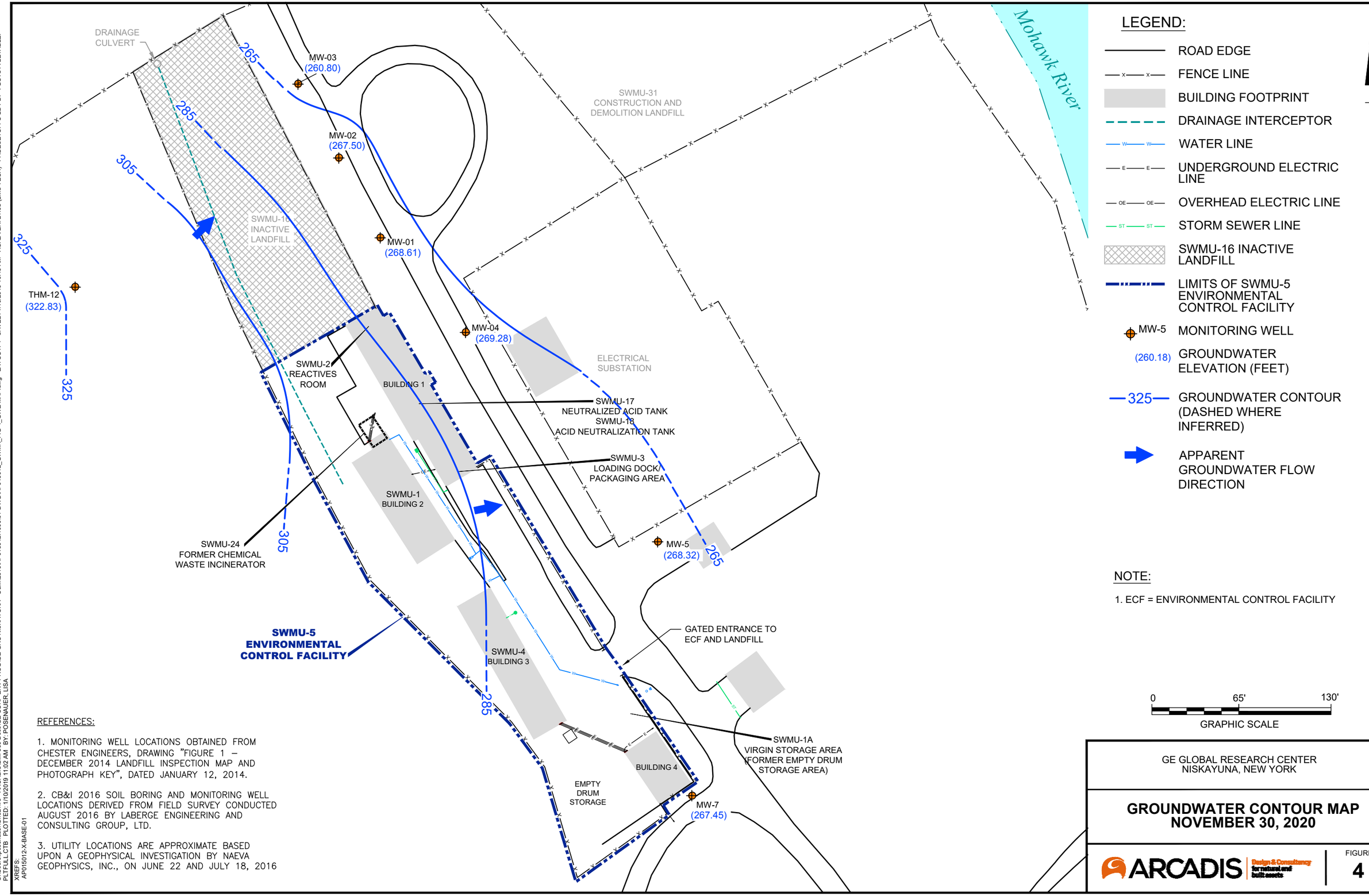
3. UTILITY LOCATIONS ARE APPROXIMATE BASED UPON A GEOPHYSICAL INVESTIGATION BY NAEVA GEOPHYSICS, INC., ON JUNE 22 AND JULY 18, 2016

GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK

GROUNDWATER CONTOUR MAP MAY 19, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3



LEGEND:

- ROAD EDGE
- FENCE LINE
- BUILDING FOOTPRINT
- DRAINAGE INTERCEPTOR
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- STORM SEWER LINE
- SWMU-16 INACTIVE LANDFILL
- LIMITS OF SWMU-5 ENVIRONMENTAL CONTROL FACILITY
- MW-5 MONITORING WELL
- (260.18) GROUNDWATER ELEVATION (FEET)
- 325 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- APPARENT GROUNDWATER FLOW DIRECTION

NOTE:

1. ECF = ENVIRONMENTAL CONTROL FACILITY

REFERENCES:

1. MONITORING WELL LOCATIONS OBTAINED FROM CHESTER ENGINEERS, DRAWING "FIGURE 1 – DECEMBER 2014 LANDFILL INSPECTION MAP AND PHOTOGRAPH KEY", DATED JANUARY 12, 2014.

2. CB&I 2016 SOIL BORING AND MONITORING WELL LOCATIONS DERIVED FROM FIELD SURVEY CONDUCTED AUGUST 2016 BY LABERGE ENGINEERING AND CONSULTING GROUP, LTD.

3. UTILITY LOCATIONS ARE APPROXIMATE BASED UPON A GEOPHYSICAL INVESTIGATION BY NAEVA GEOPHYSICS, INC., ON JUNE 22 AND JULY 18, 2016

0 65' 130'

GRAPHIC SCALE

GE GLOBAL RESEARCH CENTER
NISKAYUNA, NEW YORK

GROUNDWATER CONTOUR MAP NOVEMBER 30, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

APPENDIX A

May 2020 Field Forms

Control Number: TSM-

TSM + project number plus date as follows: xxxxxxxx.xxxx.xxxxx - dd/mm/year

ARCADIS Design & Consultancy for natural and built assets

TAILGATE HEALTH & SAFETY MEETING FORM

Project Name: 6E Nisku yard

Project Location: Waste management area

Date: 5/9/20 **Time:** 0910 **Conducted by:** A. Gibson

Signature/Title: A. Gibson / Geologist

Issues or concerns from previous day's activities:

Task anticipated to be performed today:

☐ Additional permits/checklists attached

USE TRACK! Evaluate the hazards (h) for the tasks being performed today and rank as Low (L), Medium (M) or High (H). Use relevant JSAs, FHSHB, permit or other work standard to communicate controls (c) to be used to eliminate or mitigate identified hazards.

☒ Gravity (i.e., ladder, scaffold, trips) (L M H)
h: Slips, trips, falls
c: Steel toe boots, track

☐ Motion (i.e., traffic, moving water) (L M H)
h:
c:

☐ Mechanical (i.e., augers, motors) (L M H)
h:
c:

☐ Electrical (i.e., utilities, lightning) (L M H)
h:
c:

☐ Pressure (i.e., gas cyl., wells) (L M H)
h:
c:

☐ Environment (i.e., heat, cold, ice) (L M H)
h:
c:

☒ Chemical (i.e., fuel, acid, paint) (L M H)
h: Site contaminants
c: Safety glasses, gloves

☐ Biological (i.e., ticks, poison ivy) (L M H)
h:
c:

☒ Radiation (i.e., alpha, sun, laser) (L M H)
h: Sunburn
c: Sunscreen

☐ Sound (i.e., machinery) (L M H)
h:
c:

☐ Personal (i.e. alone, night) (L M H)
h:
c:

☒ Driving (i.e. car, ATV, boat, dozer) (L M H)
h: Site traffic
c: Seat belt, track

Comments:

☐ Refer to the attached Hazard Analysis Sheet(s) or JSA

Signature and Certification: I have read and understand the project specific HASP for this project.

Printed Name/Signature/Company	Sign In Time	Sign Out Time
Andrew Gibson / Dennis Arcand	0830	

I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.

I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.

If it is necessary to **STOP THE JOB,** I will perform **TRACK**; and then amend the hazard assessments or the HASP as needed.

I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.

All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.

In the event of an injury, employees will call **WorkCare at 1.888.449.7787** and then notify the field supervisor.

Utility strike, motor vehicle accident or 3rd party property damage - field supervisor will immediately notify the Project or Task Manager

Instrument Calibration Log

ARCADIS

Project Name: GE GRC Niskayuna

Project Number:

Calibrating Personnel: AG, LCon

Date: 5/19/20

Time of Calibration: 0850

Weather Conditions: 57°F Sunny

Barometric Pressure: 30.31 ~~in~~ Hg

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	Horiba U50	~~3.88~~				
pH 4.01		3.88	4.00	4.00	0850	15.41 °C
Conductivity (mS/cm)		4.62	4.49	4.50		
Turbidity (~~1.0~~ NTU)		0.6	0.0	0.0		
Turbidity (10.0 NTU)						
DO (mg/L)		11.95		11.32		
DO%						
ORP (mV)		260		258		
Isopropanol	RKI GX 6000					
Fresh air						

Notes:

PIOS/N. 44450
Horiba S/N. 16182

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID MW-1 Date 5/19/20

Project Name/Location GE Niskayuna Weather 62°F, sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) — Casing Diameter (in.) 2

Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 16.98 Static Water Level (ft-bmp) 7.59 Water Column in Well 12.39 Gallons in Well 2.02

Calc. Gallons Purged — Pump Intake (ft-bmp) — Purge Method: Sample Method —

Gallons Purged — MP Elevation — Centrifugal ___ Submersible ___ Pump On/Off —

Sample Time: Label — Replicate/ Code No. — Disp. Bailer X Other ___ Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. ~~(µmhos)~~ (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) ~~(°F)~~	Redox (mV)	Appearance	
											Color	Odor
0957	—	—	—	—	7.54	0.568	3.0	1.63	13.35	176	clear	none

Constituents Sampled	Container	Number	Preservative

Well Information

Well Location: Next to Road

Condition of Well: Good

Well Completion: Flush Mount / ~~Stick Up~~

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES: PID = 0.4 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS
Groundwater Sampling Form

Project No. _____ Well ID MW-3 Date 5/19/20

Project Name/Location GE Niskayuna Weather 62°F, Sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2 Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 19.89 Static Water Level (ft-bmp) 8.11 Water Column in Well 11.78 Gallons in Well 1.92

Calc. Gallons Purged — Pump Intake (ft-bmp) — Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ Sample Method Bailer

Gallons Purged — MP Elevation — Pump On/Off —

Sample Time: Label — Replicate/ Code No. — Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
1003	—	—	—	—	7.35	1.04	10.0	0.68	13.34	164	clear	none

Constituents Sampled	Container	Number	Preservative

Well Information

Well Location: Road Edge

Condition of Well: Good

Well Completion: Flush Mount / (Stick Up)

Well Locked at Arrival: (Yes) / No

Well Locked at Departure: (Yes) / No

Key Number To Well:

NOTES: PID: 0.0 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID MW-3 Date ~~5/21~~ 5/9/20

Project Name/Location GE Niskayuna Weather 62°F, sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 19.98 Static Water Level (ft-bmp) 17.17 Water Column in Well 2.81 Gallons in Well 0.46

Calc. Gallons Purged ~ Pump Intake (ft-bmp) ~ Purge Method: Sample Method ~

Gallons Purged ~ MP Elevation ~ Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ Pump On/Off ~

Sample Time: Label ~ Replicate/ Code No. ~ Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. ~~(umhos)~~ (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) ~~(°F)~~	Redox (mV)	Appearance	
											Color	Odor
1006	←	—	—	~	7.57	0.713	3.4	7.27	12.73	156	clear	none

Constituents Sampled	Container	Number	Preservative

Well Information

Well Location:	Next to Road	Well Locked at Arrival:	Yes / No
Condition of Well:	Good	Well Locked at Departure:	Yes / No
Well Completion:	Flush Mount / Stick Up	Key Number To Well:	

NOTES: PID = 0.497 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID MW-4 Date 5/19/20

Project Name/Location GE Niskayuna Weather 62°F, sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2 Well Material 1 PVC ___ SS ___ Other

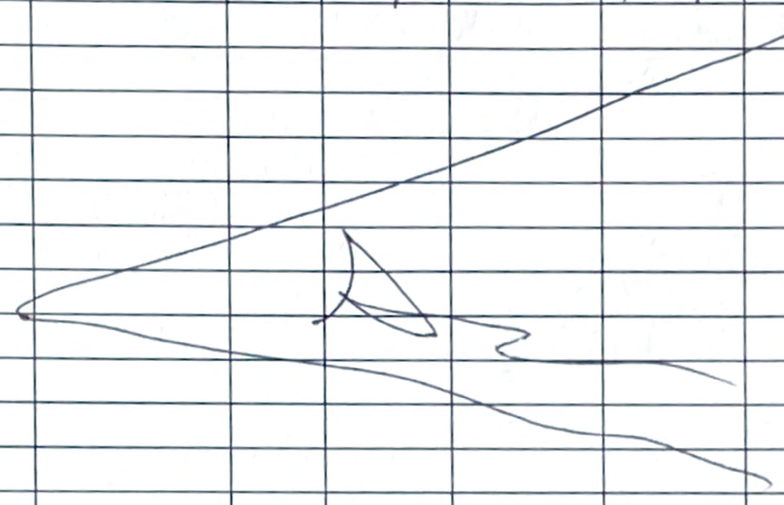
Total Depth (ft-bmp) 22.33 Static Water Level (ft-bmp) 4.50 Water Column in Well 17.83 Gallons in Well 2.91

Calc. Gallons Purged — Pump Intake (ft-bmp) — Purge Method: Centrifugal ___ Submersible ___ Sample Method ___

Gallons Purged ___ MP Elevation ___ Disp. Bailer X Other ___ Pump On/Off —

Sample Time: Label — Replicate/ Code No. ___ Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (~~umhos~~) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (~~°F~~)	Redox (mV)	Appearance	
											Color	Odor
0953	—	—	—	—	7.12	1.38	14.9	10.87	15.49	185	clear	none



Constituents Sampled	Container	Number	Preservative

Well Information

Well Location:	In Road	Well Locked at Arrival:	Yes / ~~No~~
Condition of Well:	Good	Well Locked at Departure:	Yes / ~~No~~
Well Completion:	~~Flush Mount~~ / Stick Up	Key Number To Well:	

NOTES: firm bottom
PID = 0.7 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID MW-5 Date 5/19/20

Project Name/Location GE Niskayuna Weather 62°F, Sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 43.69 Static Water Level (ft-bmp) 5.52 Water Column in Well 38.17 Gallons in Well 6.22

Calc. Gallons Purged — Pump Intake (ft-bmp) — Purge Method: Sample Method —

Gallons Purged — MP Elevation — Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ Pump On/Off —

Sample Time: Label — Replicate/ Code No. — Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
0938	—	—	—	—	6.83	6.33	143	225	13.98	209	Cloudy	none

Constituents Sampled	Container	Number	Preservative

Well Information

Well Location: In assembly area parking lot

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES: PID 0.6 ppm, soft bottom

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID MW-7 Date 5/19/20

Project Name/Location GE Niskayuna Weather 62°F, Sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 25.44 Static Water Level (ft-bmp) 7.41 Water Column in Well 18.03 Gallons in Well 2.94

Calc. Gallons Purged — Pump Intake (ft-bmp) — Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ Sample Method —

Gallons Purged — MP Elevation — Pump On/Off —

Sample Time: Label — Replicate/ Code No. — Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. ~~(µmhos)~~ (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) ~~(°F)~~	Redox (mV)	Appearance	
											Color	Odor
0914	—	—	—	—	6.46	2.82	59.7	4.42	12.85	229	clear/ cloudy	none

Constituents Sampled	Container	Number	Preservative

Well Information

Well Location:	near green shed	Well Locked at Arrival:	Yes / No
Condition of Well:	Good	Well Locked at Departure:	Yes / No
Well Completion:	Flush Mount / Stick Up	Key Number To Well:	

NOTES: PID: 0.5 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID THM-12 Date 5/19/20

Project Name/Location GE Niskayuna Weather 62°F, sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material ✓ PVC ___ SS ___ Other

Total Depth (ft-bmp) 54.42 Static Water Level (ft-bmp) 7.87 Water Column in Well 46.55 Gallons in Well 7.59

Calc. Gallons Purged — Pump Intake (ft-bmp) — Purge Method: Centrifugal ___ Submersible ___ Sample Method —

Gallons Purged — MP Elevation — Disp. Bailer X Other ___ Pump On/Off —

Sample Time: Label — Replicate/ Code No. — Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. ~~(umhos)~~ (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp ~~(°C)~~ ~~(°F)~~	Redox (mV)	Appearance	
											Color	Odor
1115	—	—	—	—	7.60	0.567	3.1	11.72	14.59	92	clear	none

Constituents Sampled	Container	Number	Preservative

Well Information

Well Location: Top of hill behind locked fence

Condition of Well: Good, arts inside outer casing

Well Completion: Flush Mount / (Stick Up)

Well Locked at Arrival: (Yes) / No

Well Locked at Departure: (Yes) / No

Key Number To Well:

NOTES: PID: 0.9 ppm
soft bottom

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

APPENDIX B

November 2020 Field Forms

Control Number: TSM- 3096074-30/11/2020

TSM + project number plus date as follows: xxxxxxxx.xxxx.xxxxx - dd/mm/year

ARCADIS Design & Consultancy for natural and built assets

TAILGATE HEALTH & SAFETY MEETING FORM

Project Name: GE Niskayuna Global Research Center			**Project Location:** Niskayuna/NY
Date: 11/30/20	**Time:** 0905	**Conducted by:** A. Gibson	**Signature/Title:** [signature] / Geologist

Issues or concerns from previous day's activities:

Task anticipated to be performed today:

☐ Additional permits/checklists attached

USE TRACK! Evaluate the hazards (h) for the tasks being performed today and rank as Low (L), Medium (M) or High (H). Use relevant JSAs, FHSHB, permit or other work standard to communicate controls (c) to be used to eliminate or mitigate identified hazards.

☒ Gravity (i.e., ladder, scaffold, trips) (L M H) h: slips, trips, falls c: steel toe boots, train	☐ Motion (i.e., traffic, moving water) (L M H) h: c:	☐ Mechanical (i.e., augers, motors) (L M H) h: c:
☐ Electrical (i.e., utilities, lightning) (L M H) h: c:	☐ Pressure (i.e., gas cyl., wells) (L M H) h: c:	☒ Environment (i.e., heat, cold, ice) (L M H) h: rain, stress c: rain coat
☒ Chemical (i.e., fuel, acid, paint) (L M H) h: site contamination c: nitrile gloves, safety glasses	☐ Biological (i.e., ticks, poison ivy) (L M H) h: c:	☐ Radiation (i.e., alpha, sun, laser) (L M H) h: c:
☐ Sound (i.e., machinery) (L M H) h: c:	☒ Personal (i.e. alone, night) (L M H) h: solo work c: stay in contact with site contact	☒ Driving (i.e. car, ATV, boat, dozer) (L M H) h: site driving c: [illegible]

Comments:

☐ Refer to the attached Hazard Analysis Sheet(s) or JSA

Signature and Certification: I have read and understand the project specific HASP for this project.

Printed Name/Signature/Company	Sign In Time	Sign Out Time
Andrew Gibson [signature] / Arcadis	0900	

I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.

I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.

If it is necessary to **STOP THE JOB,** I will perform **TRACK**; and then amend the hazard assessments or the HASP as needed.

I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.

All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.

In the event of an injury, employees will call **WorkCare at 1.888.449.7787** and then notify the field supervisor.

Utility strike, motor vehicle accident or 3rd party property damage - field supervisor will immediately notify the Project or Task Manager

Control Number: TSM- 300614074 - 1/12/2020 (AG) (~~1/11~~)

TSM + project number plus date as follows: xxxxxxxx.xxxx.xxxxx - dd/mm/year

ARCADIS Design & Consultancy for natural and built assets

TAILGATE HEALTH & SAFETY MEETING FORM

Project Name: GE Niskayuna Global Research Center			**Project Location:**
Date: 12/1/20 (~~0~~ AG)	**Time:** 0725	**Conducted by:** A. Gibson	**Signature/Title:** Geologist

Issues or concerns from previous day's activities:

Task anticipated to be performed today:

☐ Additional permits/checklists attached

USE TRACK! Evaluate the hazards (h) for the tasks being performed today and rank as Low (L), Medium (M) or High (H). Use relevant JSAs, FHSHB, permit or other work standard to communicate controls (c) to be used to eliminate or mitigate identified hazards.

☒ Gravity (i.e., ladder, scaffold, trips) (L M H) h: slips, trips, falls c: steel toe boots, track	☐ Motion (i.e., traffic, moving water) (L M H) h: c:	☐ Mechanical (i.e., augers, motors) (L M H) h: c:
☐ Electrical (i.e., utilities, lightning) (L M H) h: c:	☐ Pressure (i.e., gas cyl., wells) (L M H) h: c:	☒ Environment (i.e., heat, cold, ice) (L M H) h: intermittent rain c: rain suit
☒ Chemical (i.e., fuel, acid, paint) (L M H) h: site contaminants c: nitrile gloves, safety glasses	☐ Biological (i.e., ticks, poison ivy) (L M H) h: c:	☐ Radiation (i.e., alpha, sun, laser) (L M H) h: c:
☐ Sound (i.e., machinery) (L M H) h: c:	☒ Personal (i.e. alone, night) (L M H) h: solo work c: maintain contact with site contact	☒ Driving (i.e. car, ATV, boat, dozer) (L M H) h: site driving c: Practice Smith System

Comments:

☐ Refer to the attached Hazard Analysis Sheet(s) or JSA

Signature and Certification: I have read and understand the project specific HASP for this project.

Printed Name/Signature/Company	Sign In Time	Sign Out Time
Andrew Gibson / Arcadis	0717	

I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.

I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.

If it is necessary to **STOP THE JOB,** I will perform **TRACK**; and then amend the hazard assessments or the HASP as needed.

I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.

All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.

In the event of an injury, employees will call **WorkCare at 1.888.449.7787** and then notify the field supervisor.

Utility strike, motor vehicle accident or 3rd party property damage - field supervisor will immediately notify the Project or Task Manager

ARCADIS

Groundwater Sampling Form

Project No. 30064074 | Well ID THM+12 | Date 11/30/20 - 12/1/20

Project Name/Location GE Niskayuna/Global Research Center | Weather 50°F rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 54.42 | Static Water Level (ft-bmp) 8.62 | Water Column in Well 45.80 | Gallons in Well 7.47

Calc. Gallons Purged — | Pump Intake (ft-bmp) — | Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ | Sample Method Bailer

Gallons Purged 12 | MP Elevation — | Pump On/Off 1021/1057

Sample Time: Label 1018 | Replicate/ Code No. — | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (umhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1024	0			0	7.93	0.616	3.5	5.27	11.34	-227.3	clear	
1028	7			2	8.03	0.615	12	3.01	10.79	-241.5	"	"
1034	13			4	8.01	0.643	6	3.10	10.31	-241.2	"	"
1039	18			6	8.00	0.650	3	3.06	9.22	-239.9	"	"
1045	24			8	7.93	0.720	87	4.26	9.43	-191.6	Lt. Brown	"
1051	30			10	7.51	0.719	25	4.71	9.91	-174.9	"	"
1057	36		dry	12	7.43	0.719	127	5.21	9.85	-152.7	"	"
12/1/20 1017	—		9.22	—	7.63	0.785	4	6.37	11.36	-54.9	clear	none

Constituents Sampled	Container	Number	Preservative
Metals Dissolved (Barium)	250mL Poly	1	HNO_3 field filtered
Total phenols, TOC	250mL Amber	1	H_2SO_4
Cl, Nitrate, TDS	500mL Poly	1	None
VOCs	40mL VOA	3	HCl

Well Information

Well Location: Outside of Fence NW of engineering control facility

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES: PID=0.0 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. 30064074 | Well ID MW-1 | Date 11/30/20 - 12/1/20

Project Name/Location GE Niskayuna / Global Research Facility | Weather 48°F rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) – | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 10.89 | Static Water Level (ft-bmp) 7.78 | Water Column in Well 12.11 | Gallons in Well 1.97

Calc. Gallons Purged – | Pump Intake (ft-bmp) – | Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ | Sample Method Bailer

Gallons Purged 4 plus [illegible] | MP Elevation – | Pump On/Off 1230 / 1239

Sample Time: Label 0950 | Replicate/ Code No. – | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
4	1234	1		0	7.73	0.668	14	5.20	9.70	-104.1	clear	none
8	1238			1	7.73	0.669	6.5	5.14	9.47	-99.5	"	"
12	1239			2	7.74	0.669	128	5.03	10.21	-94.1	brown	none
15	1235			3	[illegible]	0.671	150	4.39	10.31	-82.9	"	"
17 19	1239			4	7.74	0.669	165	4.21	11.42	-81.3	"	"
12/1/20 ~~AG~~	0944		@ 9.99 8.99	0	7.[illegible]	1.671	15	3.91	12.78	-134.1	clear	none

Constituents Sampled | **Container** | **Number** | **Preservative**

Constituents Sampled	Container	Number	Preservative
Metals, Dissolved (Barium)	250mL Poly	1	HNO_3, field filtered
Total Phenols, TOC	250mL Amber	1	H_2SO_4
Chloride, TDS	500mL Poly	1	None
VOCs	40mL Vial	3	HCl

Well Information

Well Location: Next to Road

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES: PID = 0.0 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. 30064074 | Well ID MW-2 | Date 11/30/20

Project Name/Location GE Niskayuna / Global Research Center | Weather 46°F rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 19.83 | Static Water Level (ft-bmp) 8.27 | Water Column in Well 11.56 | Gallons in Well 1.88

Calc. Gallons Purged — | Pump Intake (ft-bmp) — | Purge Method: Centrifugal ___ Submersible ___ | Sample Method Bailer

Gallons Purged 6 | MP Elevation — | Disp. Bailer X Other ___ | Pump On/Off 1500 / 1530

Sample Time: Label 535 | Replicate/ Code No. — | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) mL/min	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1503				0	8.41	0.854	14	2.93	12.20	6.3	Grey	"
1506				1	7.45	0.932	47	2.65	10.54	-30.5	"	"
1509				2	7.50	0.981	74	2.38	10.92	-102.4	"	"
1513				3	7.55	1.147	95	2.29	11.11	-159.1	"	"
1517				4	7.55	1.289	231	2.08	11.13	-208.5	"	"
1520				5	7.60	1.417	522	1.91	11.65	-217.5	"	"
1524			14.76	6	7.61	1.420	256	1.69	11.61	-229.2	"	"

Constituents Sampled | **Container** | **Number** | **Preservative**

Constituents Sampled	Container	Number	Preservative
Metals, Dissolved (Barium)	250mL Poly	1	HNO_3, field filtered
Total Phenols, TOC	250mL Amber	1	H_2SO_4
Chloride, TDS	500mL Poly	1	None
VOCs	40mL VOA	3	HCl

Well Information

Well Location: Road edge | Well Locked at Arrival: (Yes) / No

Condition of Well: Good | Well Locked at Departure: (Yes) / No

Well Completion: Flush Mount / (Stick Up) | Key Number To Well:

NOTES: PID = 0.0

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30064074 | Well ID MW-3 | Date 11/30/20-12/1/20

Project Name/Location GE Niskayuna Global Research Center | Weather 46°F rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) – | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 19.90 | Static Water Level (ft-bmp) 15.22 | Water Column in Well 4.68 | Gallons in Well 0.76

Calc. Gallons Purged – | Pump Intake (ft-bmp) – | Purge Method: | Sample Method Bailer

Gallons Purged ___ | MP Elevation – | Centrifugal ___ Submersible ___ Disp. Bailer X Other ___ | Pump On/Off 1218/1222

Sample Time: Label 1205 | Replicate/ Code No. – | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1218	0			0	8.25	0.862	6	6.53	11.39	-160.6	Clear	None
1222	4			1	8.01	0.816	15	6.11	11.42	-128.3	Grey	N
12/1/20 1204			17.05	0	7.71	0.876	9	6.40	13.00	-124	N	N

Constituents Sampled | **Container** | **Number** | **Preservative**

Constituents Sampled	Container	Number	Preservative
Metals Dissolved (Boron	250mL Poly	1	HNO3 Field Filtered
Total Phenols, TOC	250mL Amber	1	H2SO4
Chloride, TDS	500mL Poly	1	None
VOCs	40mL VOA	3	HCl

Well Information

Well Location: Roadedge | Well Locked at Arrival: Yes / No

Condition of Well: Good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES: PID=0.1 ppm

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30064074 | Well ID MW-4 | Date 11/30/20

Project Name/Location GE Niskayuna / Global Research Center | Weather 48°F, rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC, ___ SS, ___ Other

Total Depth (ft-bmp) 22.23 | Static Water Level (ft-bmp) 4.18 | Water Column in Well 18.05 | Gallons in Well 2.94

Calc. Gallons Purged — | Pump Intake (ft-bmp) — | Purge Method: Centrifugal ___, Submersible ___, Disp. Bailer X, Other ___ | Sample Method Bailer

Gallons Purged 9 1436 | MP Elevation — | Pump On/Off 1415/1450

Sample Time: Label ~~1410~~ | Replicate/Code No. Dup-20201130 | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1415	0			0	7.09	0.985	15	9.87	10.5	17.4	clear	none
1419	4			2	7.27	1.067	52	8.09	9.71	13.0	brown	"
1422	7			4	7.30	1.099	23	8.45	9.53	12.4	"	"
1427	12			6	7.33	1.111	5	7.75	9.50	11.9	clear	none
1431	16			8	7.32	1.103	18	8.03	9.72	11.6	"	"
1437	22		4.18	9	7.34	1.096	11	7.82	9.91	11.7	"	"

Constituents Sampled	Container	Number	Preservative
Metals Dissolved (Barium)	250mL Poly	4	HNO_3, field filtered
Total Phenols, TOC	250mL Amber	4	H_2SO_4
Chloride, TDS	500mL Poly	4	None
VOCs	40mL VOA	12	HCl

Well Information

Well Location: In Road | Well Locked at Arrival: Yes / No

Condition of Well: Good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES: PID = 0.0 PPM, Dup and MS/MSD collected here

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. 30064074 | Well ID MW-5 | Date 12/1/20

Project Name/Location GE Niskayuna / Global Research Center | Weather 52°F, rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC, ___ SS, ___ Other

Total Depth (ft-bmp) 44.48 | Static Water Level (ft-bmp) 5.29 | Water Column in Well 39.19 | Gallons in Well 6.39

Calc. Gallons Purged — | Pump Intake (ft-bmp) — | Purge Method: Centrifugal ___, Submersible ___, Disp. Bailer X, Other ___ | Sample Method Bailer

Gallons Purged 18 | MP Elevation — | Pump On/Off 0817 / 0903

Sample Time: Label 0854 | Replicate/ Code No. — | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0817	0			0	6.93	7.035	7	1.51	12.53	-5.6	clear	none
0820	3			2	6.94	7.251	542	1.52	12.74	-6.7	Yellow	none
0823	6			4	6.98	7.447	491	1.41	12.91	-6.4		
0826	9			6	6.99	7.615	321	3.32	13.03	-6.5		
0829	12			9	7.02	7.541	345	3.04	13.10	-12.5		
0833	16			10	7.04	7.569	1114	2.37	12.27	-4.4		
0837	20			12	7.05	7.583	541	2.81	11.95	-39.3		
0840	23			14	7.08	7.591	656	3.37	11.45	-36.5		
0844	27			16	7.10	7.595	1.81	3.41		-38.5		
0847	32		3.64	18	7.13	7.606	719	3.46	11.15	-40.1		

Constituents Sampled	Container	Number	Preservative
metals, Dissolved (Barium)	250mL Poly	1	HNO3, field filtered
Total phenols, TOC	250mL Amber	1	H2SO4
Chloride, TDS	500mL Poly	1	None
VOCs	40mL VOA	3	HCl

Well Information

Well Location: In assembly area parking lot | Well Locked at Arrival: Yes / No

Condition of Well: Good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES: PID = 0.0 ppm

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

C

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30064074 | Well ID MW-7 | Date 11/30/20-12/1/20

Project Name/Location GE Niskayuna | Weather 49°F rainy

Measuring Pt. Description TIC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 25.57 | Static Water Level (ft-bmp) 7.40 | Water Column in Well ___ | Gallons in Well ___

Calc. Gallons Purged — | Pump Intake (ft-bmp) — | Purge Method: Centrifugal ___ Submersible ___ | Sample Method Bailer

Gallons Purged 5 | MP Elevation — | Disp. Bailer X Other ___ | Pump On/Off 1149/1208

Sample Time: Label 0929 | Replicate/ Code No. — | Sampled by AG

Time	Minutes Elapsed	Rate (gpm) mL/min	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) mS/cm	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1149	0			0	7.34	2.289	541	4.41	10.24	-91.3	brown	none
1153	4			1	7.33	2.353	315	4.00	11.57	-87.3	clear	"
1156	7			2	7.33	2.382	251	4.81	12.45	-82.1	"	"
1199	10			3	7.31	3.157	895	4.69	12.23	-99.5	"	"
1204	15			4	7.30	3.881	765	4.61	11.89	-131.7	"	"
1208	19			5	7.28	4.922	165	4.55	11.50	-162.9	"	"
0928	—		8.37	0	7.65	4.221	27	1.93	12.43	-136.7	grey	none

Constituents Sampled	Container	Number	Preservative
Metals, Dissolved (Barium)	250mL Poly	1	HNO3, field filtered
Total Phenols, TOC	250mL Amber	1	H2SO4
Chloride, TDS	500mL Poly	1	None
VOCs	40mL VOA	3	HCl

Well Information

Well Location: Near Green Shed

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES: PID = 0.0 ppm

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Instrument Calibration Log

ARCADIS

Project Name: GE Niskayuna Global Research Center

Date: 11/30/20

Project Number: 30064074

Calibrating Personnel: A. Gibson

Time of Calibration: 0645

Weather Conditions: 30 ~~43~~°F

Barometric Pressure: 29.65 ~~in~~ mm Hg

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	YSI ap5556				0645	30°F
pH 4.01		3.87	4.00	4.00		
Conductivity (mS/cm)		4.28	4.44	4.50		
Turbidity (~~1.0~~ 0.0 NTU)	Hach	3	0.0	0		
Turbidity (10.0 NTU)						
DO (mg/L)		11.79		12.63		
DO%						
ORP (mV)		354		315		

Notes:

Instrument Calibration Log

ARCADIS

Project Name: GE Niskayuna Global Research Center

Date: 12/1/20

Project Number: 30061074

Calibrating Personnel: A. Gibson

Time of Calibration: 0651

Weather Conditions: 53°F, Cloudy

Barometric Pressure: 29.13 mm Hg

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	YSI IMPSS6				0651	53°F
pH ~~4.01~~ 4.00		4.03	4.00	4.00		
Conductivity (mS/cm)		4.52	4.49	4.49		
Turbidity (~~1.0~~ 0.0 NTU)	Hach	2	0.0	0		
Turbidity (10.0 NTU)						
DO (mg/L)		13.84		11.91		
DO%						
ORP (mV)		317		318		

Notes:

APPENDIX C

November 2020 Laboratory Analytical Report

December 18, 2020 Service Request No:R2011386

Mr. Doug Weeks
ARCADIS U.S., Inc.
855 Route 146, Ste 210
Clifton Park, NY 12065

Laboratory Results for: GE Niskayuna Global Research Center

Dear Mr.Weeks,

Enclosed are the results of the sample(s) submitted to our laboratory December 02, 2020
For your reference, these analyses have been assigned our service request number **R2011386.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. **Service Request:** R2011386
Project: GE Niskayuna Global Research Center **Date Received:** 12/02/2020
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 12/02/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 12/09/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/09/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 12/17/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1_2020121	Lab ID: R2011386-001					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.3		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	164		1.7	8.0	mg/L	9056A
Solids, Total Dissolved (TDS)	572		9	10	mg/L	SM 2540 C-1997 (2011)
Trichloroethene (TCE)	1.2		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.4		0.23	1.0	ug/L	8260C

CLIENT ID: MW-2_20201130	Lab ID: R2011386-002					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.0		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	276		1.7	8.0	mg/L	9056A
Solids, Total Dissolved (TDS)	711		9	10	mg/L	SM 2540 C-1997 (2011)
1,2-Dichloroethane	1.5		0.20	1.0	ug/L	8260C
Benzene	1.7		0.20	1.0	ug/L	8260C
Toluene	0.45	J	0.20	1.0	ug/L	8260C
Vinyl Chloride	0.45	J	0.20	1.0	ug/L	8260C
Xylenes, Total	0.40	J	0.23	3.0	ug/L	8260C
cis-1,2-Dichloroethene	0.30	J	0.23	1.0	ug/L	8260C
m,p-Xylenes	0.40	J	0.20	2.0	ug/L	8260C

CLIENT ID: MW-3_2020121	Lab ID: R2011386-003					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.1		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	12.9		0.5	2.0	mg/L	9056A
Solids, Total Dissolved (TDS)	530		9	10	mg/L	SM 2540 C-1997 (2011)

CLIENT ID: MW-4_20201130	Lab ID: R2011386-004					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.2		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	179		1.7	8.0	mg/L	9056A
Solids, Total Dissolved (TDS)	590		9	10	mg/L	SM 2540 C-1997 (2011)
1,1,1-Trichloroethane (TCA)	0.66	J	0.20	1.0	ug/L	8260C
Chloroform	3.9		0.24	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.28	J	0.21	1.0	ug/L	8260C
Toluene	0.38	J	0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	6.6		0.20	1.0	ug/L	8260C
Xylenes, Total	0.34	J	0.23	3.0	ug/L	8260C
cis-1,2-Dichloroethene	5.7		0.23	1.0	ug/L	8260C
m,p-Xylenes	0.34	J	0.20	2.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-5_2020121			Lab ID: R2011386-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.6		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	2240		13	60	mg/L	9056A
Solids, Total Dissolved (TDS)	3730		53	59	mg/L	SM 2540 C-1997 (2011)
1,2-Dichlorobenzene	0.44	J	0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	0.89	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	4.6		0.23	1.0	ug/L	8260C

CLIENT ID: MW-7_2020121			Lab ID: R2011386-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.2		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	1080		9	40	mg/L	9056A
Solids, Total Dissolved (TDS)	2110		20	22	mg/L	SM 2540 C-1997 (2011)
Trichloroethene (TCE)	0.31	J	0.20	1.0	ug/L	8260C

CLIENT ID: THM-12_2020121			Lab ID: R2011386-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.3		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	1.9	J	0.5	2.0	mg/L	9056A
Solids, Total Dissolved (TDS)	412		9	10	mg/L	SM 2540 C-1997 (2011)
Vinyl Chloride	0.26	J	0.20	1.0	ug/L	8260C

CLIENT ID: DUP_20201130			Lab ID: R2011386-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.3		0.5	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	179		1.7	8.0	mg/L	9056A
Solids, Total Dissolved (TDS)	580		9	10	mg/L	SM 2540 C-1997 (2011)
1,1,1-Trichloroethane (TCA)	0.71	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.30	J	0.20	1.0	ug/L	8260C
Chloroform	3.8		0.24	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.29	J	0.21	1.0	ug/L	8260C
Toluene	0.47	J	0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	6.7		0.20	1.0	ug/L	8260C
Xylenes, Total	0.40	J	0.23	3.0	ug/L	8260C
cis-1,2-Dichloroethene	6.2		0.23	1.0	ug/L	8260C
m,p-Xylenes	0.40	J	0.20	2.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. **Service Request:**R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2011386-001	MW-1_2020121	12/1/2020	0950
R2011386-002	MW-2_20201130	11/30/2020	1525
R2011386-003	MW-3_2020121	12/1/2020	1105
R2011386-004	MW-4_20201130	11/30/2020	1438
R2011386-005	MW-5_2020121	12/1/2020	0854
R2011386-006	MW-7_2020121	12/1/2020	0929
R2011386-007	THM-12_2020121	12/1/2020	1018
R2011386-008	DUP_20201130	11/30/2020	
R2011386-009	FB_20201130	11/30/2020	0715
R2011386-010	FB_2020121	12/1/2020	0703
R2011386-011	TB_20201130	11/30/2020	
R2011386-012	TB_2020121	12/1/2020	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

34207

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: GE Niskayuna Global Research Center	Project Number: 30061074
Project Manager: Doug Weeks	Report CC:
Company/Address: 855 Route 146, Suite 210, Clifton Park, NY, 12065	
Phone #: (518) 250-7300	Email: Doug.weeks@arcadis.com
Sampler's Signature:	Sampler's Printed Name: Andrew Gibson

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1 2 3 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 8011/8021	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Total Phenols, TOC, Chloride, TDS						REMARKS/ ALTERNATE DESCRIPTION
MW-1_20201211		12/1/20	0950	GW	6	3						1	1	1						
MW-2_20201130		11/30/20	1525	GW	6	3						1	1	1						
MW-3_20201211		12/1/20	1105	GW	6	3						1	1	1						
MW-4_20201130		11/30/20	1438	GW	6	3						1	1	1						
MW-4_20201130MS/MSD		11/30/20	1438	GW	12	6						2	2	2						
MW-5_20201211		12/1/20	0854	GW	6	3						1	1	1						
MW-7_20201211		12/1/20	0929	GW	6	3						1	1	1						
THM-12_20201211		12/1/20	1018	GW	6	3						1	1	1						
DUP_20201130		11/30/20	—	GW	6	3						1	1	1						
FB_20201130		11/30/20	0715	GW	6	3						1	1	1						
FB_20201211		12/1/20	0703	GW	6	3						1	1	1						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals, Dissolved for Barium only (Field Filtered)

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: NY

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
Standard
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Andrew Gibson	Printed Name: DINA AYERS	Printed Name	Printed Name	Printed Name	
Firm: Arcadis	Firm: ALS	Firm	Firm	Firm	
Date/Time: 12/1/20 1457	Date/Time: 12/1/2020 1457	Date/Time: 12/1/2020 1700	Date/Time: 12/2/2020 1100	Date/Time	

R2011386 5
ARCADIS U.S., Inc.
GE Niskayuna Global Research Center

Distribution: White - Lab Copy; Yellow - Return to Originator

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

34206

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: GE Niskayuna Global Research Center	Project Number: 30061404
Project Manager: Doug Weeks	Report CC:
Company/Address: 855 Route 146, Suite 210, Clifton Park, NY, 12065	
Phone #: (518) 250-7300	Email: Doug.Weeks@arcadis.com
Sampler's Signature:	Sampler's Printed Name: Andrew Gibson

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
TB-20201130		11/30/20	—	W	3	3						
TB-20201201		12/1/20	—	W	3	3						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals, Dissolved for Barium only (Field Filtered)

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: NY

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
~~4 day~~ ~~5 day~~
Standard
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Andrew Gibson	Printed Name: DINA AVERS	Printed Name	Printed Name	Printed Name	
Firm: Arcadis	Firm: ALS	Firm	Firm: ALS	Firm	
Date/Time: 12/1/20/1457	Date/Time: 12/1/2020 1457	Date/Time: 12/1/2020 1700	Date/Time: 12/1/2020 1700	Date/Time	

R2011386 5
ARCADIS U.S., Inc.
GE Niskayuna Global Research Center

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservation Check Form

Project/Client Arcadis Folder Number

Cooler received on 12/2/2020 by: @

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 12/2/2020 Time: 1123 ID: IR#7 ~~IR#10~~ From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.3	1.6					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: Standing Approval Client aware at drop-off . Client notified by:

All samples held in storage location: R-002 by @ on 12/2/20 at 1130
5035 samples placed in storage location: by on at within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/2/2020 Time: 1535 by: @

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	223419	HNO_3	✓		1119103					
≤2		H_2SO_4	✓		B360007A	7/24				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	411810					

Bottle lot numbers: ~~0713147 2411W~~ see Comments

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @

PC Secondary Review: WWS 12/3/20 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2011386-001.01					
	9066,SM 5310 C-2000(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-001.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-001.03					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-001.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-001.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-001.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-002.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-002.02					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2011386-002.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-002.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-002.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-002.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-003.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-003.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-003.03					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-003.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-003.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	6010C				
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-003.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-004.01					
	SM 5310 C-2000(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-004.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
R2011386-004.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-004.07					
	9066				
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2011386-004.08					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-004.09					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.10					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.11					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.12					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.13					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-004.14					
	8260C				
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-004.15					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-004.16					
		12/2/2020	1533	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-005.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-005.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-005.03					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-005.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-005.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-005.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-006.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-006.02					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-006.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-006.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-006.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-006.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-007.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-007.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-007.03					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-007.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2011386-007.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-007.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1547	RT000544 / GLAFORCE	
		12/2/2020	1548	R-017 / GLAFORCE	
R2011386-008.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-008.02					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-008.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-008.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-008.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-008.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2011	RT000615 / GLAFORCE	
		12/4/2020	1514	R-017 / KWONG	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2011386-009.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-009.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-009.03					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1107	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-009.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-009.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-009.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2011	RT000615 / GLAFORCE	
		12/4/2020	1514	R-017 / KWONG	
R2011386-010.01					
	SM 5310 C-2000(2011),9066				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2017	R-015 / GLAFORCE	
		12/2/2020	2018	RT000510 / GLAFORCE	
R2011386-010.02					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1107	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2011386-010.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-010.04					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-010.05					
	6010C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-A01 / GLAFORCE	
		12/7/2020	1155	In Lab / AKONZEL	
		12/9/2020	1640	R-A01 / AKONZEL	
R2011386-010.06					
	9056A,SM 2540 C-1997(2011)				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	2011	RT000615 / GLAFORCE	
		12/4/2020	1514	R-017 / KWONG	
R2011386-011.01					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1107	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-011.02					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-011.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-012.01					
	8260C				
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
		12/9/2020	1108	In Lab / FNAEGLER	
		12/9/2020	1139	R-001-S10 / FNAEGLER	
R2011386-012.02					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	
R2011386-012.03					
		12/2/2020	1534	SMO / GLAFORCE	
		12/2/2020	1535	R-001 / GLAFORCE	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ARCADIS U.S., Inc. **Service Request:** R2011386
Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Sample Name: MW-1_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-001 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-2_20201130 **Date Collected:** 11/30/20
Lab Code: R2011386-002 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-3_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-003 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Client: ARCADIS U.S., Inc. **Service Request:** R2011386
Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Sample Name: MW-4_20201130 **Date Collected:** 11/30/20
Lab Code: R2011386-004 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-5_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-005 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-7_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-006 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Client: ARCADIS U.S., Inc. **Service Request:** R2011386
Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Sample Name: THM-12_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-007 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: DUP_20201130 **Date Collected:** 11/30/20
Lab Code: R2011386-008 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: FB_20201130 **Date Collected:** 11/30/20
Lab Code: R2011386-009 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Client: ARCADIS U.S., Inc. **Service Request:** R2011386
Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Sample Name: FB_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-010 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
9056A		KWONG
9066		BBOWE
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: TB_20201130 **Date Collected:** 11/30/20
Lab Code: R2011386-011 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: TB_2020121 **Date Collected:** 12/1/20
Lab Code: R2011386-012 **Date Received:** 12/2/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 09:50
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-1_2020121	**Units:**	ug/L
Lab Code:	R2011386-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 14:42	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 14:42	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 14:42	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 14:42	
Benzene	1.0 U	1.0	0.20	1	12/09/20 14:42	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 14:42	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 14:42	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 14:42	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 14:42	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 14:42	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 14:42	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 14:42	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 14:42	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 14:42	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 14:42	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 14:42	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 14:42	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 14:42	
Toluene	1.0 U	1.0	0.20	1	12/09/20 14:42	
Trichloroethene (TCE)	**1.2**	1.0	0.20	1	12/09/20 14:42	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 14:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 14:42	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 14:42	
cis-1,2-Dichloroethene	**1.4**	1.0	0.23	1	12/09/20 14:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 14:42	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 14:42	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 14:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 14:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 14:42	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 09:50
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-1_2020121	**Units:**	ug/L
Lab Code:	R2011386-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	12/09/20 14:42	
Dibromofluoromethane	103	80 - 116	12/09/20 14:42	
Toluene-d8	106	87 - 121	12/09/20 14:42	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 15:25
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-2_20201130	**Units:**	ug/L
Lab Code:	R2011386-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,2-Dichloroethane	**1.5**	1.0	0.20	1	12/09/20 15:04	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:04	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:04	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 15:04	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 15:04	
Benzene	**1.7**	1.0	0.20	1	12/09/20 15:04	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 15:04	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 15:04	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 15:04	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 15:04	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:04	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 15:04	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 15:04	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 15:04	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 15:04	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 15:04	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 15:04	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 15:04	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 15:04	
Toluene	**0.45 J**	1.0	0.20	1	12/09/20 15:04	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 15:04	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 15:04	
Vinyl Chloride	**0.45 J**	1.0	0.20	1	12/09/20 15:04	
Xylenes, Total	**0.40 J**	3.0	0.23	1	12/09/20 15:04	
cis-1,2-Dichloroethene	**0.30 J**	1.0	0.23	1	12/09/20 15:04	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 15:04	
m,p-Xylenes	**0.40 J**	2.0	0.20	1	12/09/20 15:04	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 15:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 15:04	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 15:04	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 15:25
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-2_20201130	**Units:**	ug/L
Lab Code:	R2011386-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/09/20 15:04	
Dibromofluoromethane	101	80 - 116	12/09/20 15:04	
Toluene-d8	108	87 - 121	12/09/20 15:04	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 11:05
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-3_2020121	**Units:**	ug/L
Lab Code:	R2011386-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:26	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:26	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 15:26	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 15:26	
Benzene	1.0 U	1.0	0.20	1	12/09/20 15:26	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 15:26	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 15:26	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 15:26	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 15:26	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:26	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 15:26	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 15:26	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 15:26	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 15:26	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 15:26	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 15:26	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 15:26	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 15:26	
Toluene	1.0 U	1.0	0.20	1	12/09/20 15:26	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 15:26	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 15:26	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 15:26	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 15:26	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 15:26	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 15:26	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 15:26	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 15:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 15:26	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 15:26	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 11:05
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-3_2020121	**Units:**	ug/L
Lab Code:	R2011386-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	12/09/20 15:26	
Dibromofluoromethane	97	80 - 116	12/09/20 15:26	
Toluene-d8	104	87 - 121	12/09/20 15:26	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 14:38
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-4_20201130	**Units:**	ug/L
Lab Code:	R2011386-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**0.66 J**	1.0	0.20	1	12/09/20 15:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:47	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:47	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 15:47	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 15:47	
Benzene	1.0 U	1.0	0.20	1	12/09/20 15:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 15:47	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 15:47	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 15:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 15:47	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 15:47	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 15:47	
Chloroform	**3.9**	1.0	0.24	1	12/09/20 15:47	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 15:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 15:47	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 15:47	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 15:47	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 15:47	
Tetrachloroethene (PCE)	**0.28 J**	1.0	0.21	1	12/09/20 15:47	
Toluene	**0.38 J**	1.0	0.20	1	12/09/20 15:47	
Trichloroethene (TCE)	**6.6**	1.0	0.20	1	12/09/20 15:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 15:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 15:47	
Xylenes, Total	**0.34 J**	3.0	0.23	1	12/09/20 15:47	
cis-1,2-Dichloroethene	**5.7**	1.0	0.23	1	12/09/20 15:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 15:47	
m,p-Xylenes	**0.34 J**	2.0	0.20	1	12/09/20 15:47	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 15:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 15:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 15:47	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 14:38
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-4_20201130	**Units:**	ug/L
Lab Code:	R2011386-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/09/20 15:47	
Dibromofluoromethane	102	80 - 116	12/09/20 15:47	
Toluene-d8	107	87 - 121	12/09/20 15:47	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 08:54
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-5_2020121	**Units:**	ug/L
Lab Code:	R2011386-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,2-Dichlorobenzene	**0.44 J**	1.0	0.20	1	12/09/20 16:09	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:09	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:09	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 16:09	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 16:09	
Benzene	1.0 U	1.0	0.20	1	12/09/20 16:09	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 16:09	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 16:09	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 16:09	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 16:09	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:09	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 16:09	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 16:09	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 16:09	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 16:09	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 16:09	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 16:09	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 16:09	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 16:09	
Toluene	1.0 U	1.0	0.20	1	12/09/20 16:09	
Trichloroethene (TCE)	**0.89 J**	1.0	0.20	1	12/09/20 16:09	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 16:09	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 16:09	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 16:09	
cis-1,2-Dichloroethene	**4.6**	1.0	0.23	1	12/09/20 16:09	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 16:09	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 16:09	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 16:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 16:09	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 16:09	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 08:54
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-5_2020121	**Units:**	ug/L
Lab Code:	R2011386-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	12/09/20 16:09	
Dibromofluoromethane	102	80 - 116	12/09/20 16:09	
Toluene-d8	106	87 - 121	12/09/20 16:09	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 09:29
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-7_2020121	**Units:**	ug/L
Lab Code:	R2011386-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:31	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:31	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 16:31	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 16:31	
Benzene	1.0 U	1.0	0.20	1	12/09/20 16:31	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 16:31	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 16:31	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 16:31	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 16:31	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:31	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 16:31	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 16:31	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 16:31	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 16:31	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 16:31	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 16:31	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 16:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 16:31	
Toluene	1.0 U	1.0	0.20	1	12/09/20 16:31	
Trichloroethene (TCE)	**0.31 J**	1.0	0.20	1	12/09/20 16:31	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 16:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 16:31	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 16:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 16:31	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 16:31	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 16:31	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 16:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 16:31	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 16:31	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 09:29
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-7_2020121	**Units:**	ug/L
Lab Code:	R2011386-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	12/09/20 16:31	
Dibromofluoromethane	99	80 - 116	12/09/20 16:31	
Toluene-d8	105	87 - 121	12/09/20 16:31	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 10:18
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	THM-12_2020121	**Units:**	ug/L
Lab Code:	R2011386-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:53	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:53	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 16:53	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 16:53	
Benzene	1.0 U	1.0	0.20	1	12/09/20 16:53	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 16:53	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 16:53	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 16:53	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 16:53	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 16:53	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 16:53	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 16:53	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 16:53	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 16:53	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 16:53	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 16:53	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 16:53	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 16:53	
Toluene	1.0 U	1.0	0.20	1	12/09/20 16:53	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 16:53	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 16:53	
Vinyl Chloride	**0.26 J**	1.0	0.20	1	12/09/20 16:53	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 16:53	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 16:53	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 16:53	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 16:53	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 16:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 16:53	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 16:53	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 10:18
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	THM-12_2020121	**Units:**	ug/L
Lab Code:	R2011386-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	12/09/20 16:53	
Dibromofluoromethane	99	80 - 116	12/09/20 16:53	
Toluene-d8	107	87 - 121	12/09/20 16:53	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	DUP_20201130	**Units:**	ug/L
Lab Code:	R2011386-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**0.71 J**	1.0	0.20	1	12/09/20 17:15	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,1-Dichloroethane (1,1-DCA)	**0.30 J**	1.0	0.20	1	12/09/20 17:15	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:15	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:15	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 17:15	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 17:15	
Benzene	1.0 U	1.0	0.20	1	12/09/20 17:15	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 17:15	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 17:15	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 17:15	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 17:15	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:15	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 17:15	
Chloroform	**3.8**	1.0	0.24	1	12/09/20 17:15	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 17:15	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 17:15	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 17:15	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 17:15	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 17:15	
Tetrachloroethene (PCE)	**0.29 J**	1.0	0.21	1	12/09/20 17:15	
Toluene	**0.47 J**	1.0	0.20	1	12/09/20 17:15	
Trichloroethene (TCE)	**6.7**	1.0	0.20	1	12/09/20 17:15	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 17:15	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 17:15	
Xylenes, Total	**0.40 J**	3.0	0.23	1	12/09/20 17:15	
cis-1,2-Dichloroethene	**6.2**	1.0	0.23	1	12/09/20 17:15	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 17:15	
m,p-Xylenes	**0.40 J**	2.0	0.20	1	12/09/20 17:15	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 17:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 17:15	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 17:15	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	DUP_20201130	**Units:**	ug/L
Lab Code:	R2011386-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	12/09/20 17:15	
Dibromofluoromethane	104	80 - 116	12/09/20 17:15	
Toluene-d8	108	87 - 121	12/09/20 17:15	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 07:15
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	FB_20201130	**Units:**	ug/L
Lab Code:	R2011386-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:37	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:37	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 17:37	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 17:37	
Benzene	1.0 U	1.0	0.20	1	12/09/20 17:37	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 17:37	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 17:37	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 17:37	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 17:37	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:37	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 17:37	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 17:37	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 17:37	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 17:37	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 17:37	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 17:37	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 17:37	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 17:37	
Toluene	1.0 U	1.0	0.20	1	12/09/20 17:37	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 17:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 17:37	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 17:37	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 17:37	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 17:37	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 17:37	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 17:37	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 17:37	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 17:37	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 17:37	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 07:15
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	FB_20201130	**Units:**	ug/L
Lab Code:	R2011386-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	12/09/20 17:37	
Dibromofluoromethane	104	80 - 116	12/09/20 17:37	
Toluene-d8	109	87 - 121	12/09/20 17:37	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 07:03
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	FB_2020121	**Units:**	ug/L
Lab Code:	R2011386-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:59	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:59	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 17:59	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 17:59	
Benzene	1.0 U	1.0	0.20	1	12/09/20 17:59	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 17:59	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 17:59	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 17:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 17:59	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 17:59	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 17:59	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 17:59	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 17:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 17:59	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 17:59	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 17:59	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 17:59	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 17:59	
Toluene	1.0 U	1.0	0.20	1	12/09/20 17:59	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 17:59	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 17:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 17:59	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 17:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 17:59	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 17:59	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 17:59	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 17:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 17:59	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 17:59	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 07:03
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	FB_2020121	**Units:**	ug/L
Lab Code:	R2011386-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	12/09/20 17:59	
Dibromofluoromethane	100	80 - 116	12/09/20 17:59	
Toluene-d8	103	87 - 121	12/09/20 17:59	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	TB_20201130	**Units:**	ug/L
Lab Code:	R2011386-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:21	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:21	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 18:21	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 18:21	
Benzene	1.0 U	1.0	0.20	1	12/09/20 18:21	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 18:21	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 18:21	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 18:21	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 18:21	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:21	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 18:21	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 18:21	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 18:21	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 18:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 18:21	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 18:21	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 18:21	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 18:21	
Toluene	1.0 U	1.0	0.20	1	12/09/20 18:21	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 18:21	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 18:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 18:21	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 18:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 18:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 18:21	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 18:21	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 18:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 18:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 18:21	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	TB_20201130	**Units:**	ug/L
Lab Code:	R2011386-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	12/09/20 18:21	
Dibromofluoromethane	100	80 - 116	12/09/20 18:21	
Toluene-d8	110	87 - 121	12/09/20 18:21	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	TB_2020121	**Units:**	ug/L
Lab Code:	R2011386-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:43	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:43	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 18:43	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 18:43	
Benzene	1.0 U	1.0	0.20	1	12/09/20 18:43	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 18:43	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 18:43	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 18:43	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 18:43	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 18:43	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 18:43	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 18:43	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 18:43	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 18:43	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 18:43	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 18:43	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 18:43	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 18:43	
Toluene	1.0 U	1.0	0.20	1	12/09/20 18:43	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 18:43	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 18:43	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 18:43	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 18:43	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 18:43	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 18:43	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 18:43	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 18:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 18:43	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 18:43	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	TB_2020121	**Units:**	ug/L
Lab Code:	R2011386-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	12/09/20 18:43	
Dibromofluoromethane	102	80 - 116	12/09/20 18:43	
Toluene-d8	106	87 - 121	12/09/20 18:43	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	12/1/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **MW-1_2020121** **Lab Code:** **R2011386-001**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**69.4**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	11/30/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **MW-2_20201130** **Lab Code:** **R2011386-002**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**2950**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	12/1/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **MW-3_2020121** **Lab Code:** **R2011386-003**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**209**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	11/30/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **MW-4_20201130** **Lab Code:** **R2011386-004**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**32.4**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	12/1/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **MW-5_2020121** **Lab Code:** **R2011386-005**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**305**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	12/1/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **MW-7_2020121** **Lab Code:** **R2011386-006**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**217**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	12/1/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **THM-12_2020121** **Lab Code:** **R2011386-007**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**136**		

% Solids: **0.0**

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	11/30/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: DUP_20201130 **Lab Code:** R2011386-008

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	6010C	20.0	3.0	1.0	33.6		

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	11/30/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **FB_20201130** **Lab Code:** **R2011386-009**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	6010C	20.0	3.0	1.0	20.0	U	

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	ARCADIS U.S., Inc.	**Service Request:**	MW-1_2020121
Project No.:	R2011386	**Date Collected:**	12/1/2020
Project Name:		**Date Received:**	12/2/2020
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **FB_2020121** **Lab Code:** **R2011386-010**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Barium	**6010C**	**20.0**	**3.0**	**1.0**	**20.0**	**U**	

% Solids: **0.0**

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 09:50
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-1_2020121	**Basis:**	NA
Lab Code:	R2011386-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.3**	mg/L	1.0	0.5	1	12/05/20 03:38	
Chloride	9056A	**164**	mg/L	8.0	1.7	40	12/04/20 21:25	
Phenolics, Total Recoverable	9066	0.0020 U	mg/L	0.0020	0.0010	1	12/07/20 14:52	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**572**	mg/L	10	9	1	12/04/20 14:40	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 15:25
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-2_20201130	**Basis:**	NA
Lab Code:	R2011386-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.0**	mg/L	1.0	0.5	1	12/05/20 05:22	
Chloride	9056A	**276**	mg/L	8.0	1.7	40	12/04/20 21:31	
Phenolics, Total Recoverable	9066	0.0020 U	mg/L	0.0020	0.0010	1	12/07/20 14:56	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**711**	mg/L	10	9	1	12/04/20 14:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 11:05
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-3_2020121	**Basis:**	NA
Lab Code:	R2011386-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.1**	mg/L	1.0	0.5	1	12/05/20 05:43	
Chloride	9056A	**12.9**	mg/L	2.0	0.5	10	12/03/20 17:04	
Phenolics, Total Recoverable	9066	0.0020 U	mg/L	0.0020	0.0010	1	12/07/20 15:00	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**530**	mg/L	10	9	1	12/04/20 14:40	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 14:38
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-4_20201130	**Basis:**	NA
Lab Code:	R2011386-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.2**	mg/L	1.0	0.5	1	12/05/20 06:04	
Chloride	9056A	**179**	mg/L	8.0	1.7	40	12/04/20 21:37	
Phenolics, Total Recoverable	9066	0.0020 U	mg/L	0.0020	0.0010	1	12/07/20 15:20	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**590**	mg/L	10	9	1	12/04/20 14:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 08:54
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-5_2020121	**Basis:**	NA
Lab Code:	R2011386-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.6**		mg/L	1.0	0.5	1	12/05/20 07:07	
Chloride	9056A	**2240**		mg/L	60	13	300	12/04/20 21:55	
Phenolics, Total Recoverable	9066	0.0020	U	mg/L	0.0020	0.0010	1	12/07/20 15:32	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**3730**		mg/L	59	53	1	12/04/20 14:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 09:29
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	MW-7_2020121	**Basis:**	NA
Lab Code:	R2011386-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.2**	mg/L	1.0	0.5	1	12/05/20 07:27	
Chloride	9056A	**1080**	mg/L	40	9	200	12/04/20 22:01	
Phenolics, Total Recoverable	9066	0.0020 U	mg/L	0.0020	0.0010	1	12/07/20 15:36	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**2110**	mg/L	22	20	1	12/04/20 14:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 10:18
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	THM-12_2020121	**Basis:**	NA
Lab Code:	R2011386-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.3**		mg/L	1.0	0.5	1	12/05/20 07:48	
Chloride	9056A	**1.9**	**J**	mg/L	2.0	0.5	10	12/03/20 17:53	
Phenolics, Total Recoverable	9066	0.0020	U	mg/L	0.0020	0.0010	1	12/07/20 15:40	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**412**		mg/L	10	9	1	12/04/20 14:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	DUP_20201130	**Basis:**	NA
Lab Code:	R2011386-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.3**	mg/L	1.0	0.5	1	12/05/20 08:09	
Chloride	9056A	**179**	mg/L	8.0	1.7	40	12/04/20 22:07	
Phenolics, Total Recoverable	9066	0.0020 U	mg/L	0.0020	0.0010	1	12/07/20 15:44	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**580**	mg/L	10	9	1	12/04/20 14:40	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20 07:15
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	FB_20201130	**Basis:**	NA
Lab Code:	R2011386-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	12/05/20 08:30	
Chloride	9056A	2.0	U	mg/L	2.0	0.5	10	12/03/20 18:05	
Phenolics, Total Recoverable	9066	0.0020	U	mg/L	0.0020	0.0010	1	12/07/20 15:48	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	12/04/20 14:40	

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20 07:03
Sample Matrix:	Water	**Date Received:**	12/02/20 11:00
Sample Name:	FB_2020121	**Basis:**	NA
Lab Code:	R2011386-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	12/05/20 09:33	
Chloride	9056A	2.0	U	mg/L	2.0	0.5	10	12/03/20 18:11	
Phenolics, Total Recoverable	9066	0.0020	U	mg/L	0.0020	0.0010	1	12/07/20 15:52	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	12/04/20 14:40	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. **Service Request:** R2011386

Project: GE Niskayuna Global Research Center/30050762, Task 4000S

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
MW-1_2020121	R2011386-001	97	103	106
MW-2_20201130	R2011386-002	99	101	108
MW-3_2020121	R2011386-003	93	97	104
MW-4_20201130	R2011386-004	99	102	107
MW-5_2020121	R2011386-005	97	102	106
MW-7_2020121	R2011386-006	94	99	105
THM-12_2020121	R2011386-007	97	99	107
DUP_20201130	R2011386-008	95	104	108
FB_20201130	R2011386-009	100	104	109
FB_2020121	R2011386-010	93	100	103
TB_20201130	R2011386-011	96	100	110
TB_2020121	R2011386-012	96	102	106
Method Blank	RQ2015159-04	92	96	100
Lab Control Sample	RQ2015159-03	98	107	110
MW-4_20201130 MS	RQ2015159-05	108	104	110
MW-4_20201130 DMS	RQ2015159-06	107	104	111

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20
		Date Analyzed:	12/9/20
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-4_20201130	**Units:**	ug/L
Lab Code:	R2011386-004	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2015159-05			Duplicate Matrix Spike RQ2015159-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	0.66 J	48.4	50.0	96	50.8	50.0	100	74-127	5	30
1,1,2,2-Tetrachloroethane	1.0 U	48.3	50.0	97	53.3	50.0	107	72-122	10	30
1,1,2-Trichloroethane	1.0 U	47.4	50.0	95	50.4	50.0	101	82-121	6	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	54.7	50.0	109	57.9	50.0	116	74-132	6	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	59.3	50.0	119 *	64.4	50.0	129 *	71-118	8	30
1,2-Dichlorobenzene	1.0 U	45.1	50.0	90	49.1	50.0	98	77-120	8	30
1,2-Dichloroethane	1.0 U	48.0	50.0	96	52.1	50.0	104	68-130	8	30
1,2-Dichloropropane	1.0 U	50.8	50.0	102	53.7	50.0	107	79-124	5	30
1,3-Dichlorobenzene	1.0 U	46.2	50.0	92	49.3	50.0	99	83-121	7	30
1,4-Dichlorobenzene	1.0 U	45.1	50.0	90	48.9	50.0	98	82-120	8	30
Acrolein	5.0 U	97.5	100	98	104	100	104	13-165	6	30
Acrylonitrile	5.0 U	262	250	105	278	250	111	69-131	6	30
Benzene	1.0 U	51.0	50.0	102	53.6	50.0	107	76-129	5	30
Bromodichloromethane	1.0 U	40.6	50.0	81	43.8	50.0	88	78-133	8	30
Bromoform	1.0 U	31.5	50.0	63	34.8	50.0	70	58-133	10	30
Bromomethane	1.0 U	53.9	50.0	108	58.6	50.0	117	10-184	8	30
Carbon Tetrachloride	1.0 U	41.6	50.0	83	45.0	50.0	90	65-135	8	30
Chlorobenzene	1.0 U	50.4	50.0	101	53.2	50.0	106	76-125	5	30
Chloroethane	1.0 U	54.5	50.0	109	56.7	50.0	113	48-146	4	30
Chloroform	3.9	57.8	50.0	108	59.9	50.0	112	75-130	4	30
Chloromethane	1.0 U	51.4	50.0	103	53.8	50.0	108	55-160	5	30
Dibromochloromethane	1.0 U	40.0	50.0	80	44.7	50.0	89	72-128	11	30
Dichlorodifluoromethane (CFC 12)	1.0 U	48.6	50.0	97	53.8	50.0	108	49-154	10	30
Dichloromethane	1.0 U	50.4	50.0	101	53.1	50.0	106	73-122	5	30
Ethylbenzene	1.0 U	52.5	50.0	105	55.1	50.0	110	72-134	5	30
Tetrachloroethene (PCE)	0.28 J	47.1	50.0	94	50.2	50.0	100	72-125	6	30
Toluene	0.38 J	52.8	50.0	105	56.4	50.0	112	79-119	7	30
Trichloroethene (TCE)	6.6	52.8	50.0	92	56.3	50.0	99	74-122	6	30
Trichlorofluoromethane (CFC 11)	1.0 U	54.6	50.0	109	58.6	50.0	117	71-136	7	30
Vinyl Chloride	1.0 U	51.9	50.0	104	57.8	50.0	116	74-159	11	30
cis-1,2-Dichloroethene	5.7	58.5	50.0	106	63.8	50.0	116	77-127	9	30
cis-1,3-Dichloropropene	1.0 U	40.1	50.0	80	44.7	50.0	89	52-134	11	30
m,p-Xylenes	0.34 J	106	100	105	111	100	111	80-126	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20
		Date Analyzed:	12/9/20
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-4_20201130	**Units:**	ug/L
Lab Code:	R2011386-004	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2015159-05			Duplicate Matrix Spike RQ2015159-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
o-Xylene	1.0 U	49.5	50.0	99	52.3	50.0	105	79-123	5	30
trans-1,2-Dichloroethene	1.0 U	57.9	50.0	116	61.9	50.0	124 *	73-118	7	30
trans-1,3-Dichloropropene	1.0 U	37.7	50.0	75	42.4	50.0	85	71-133	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2015159-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 11:25	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/09/20 11:25	
Acrolein	5.0 U	5.0	0.90	1	12/09/20 11:25	
Acrylonitrile	5.0 U	5.0	0.90	1	12/09/20 11:25	
Benzene	1.0 U	1.0	0.20	1	12/09/20 11:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	12/09/20 11:25	
Bromoform	1.0 U	1.0	0.25	1	12/09/20 11:25	
Bromomethane	1.0 U	1.0	0.70	1	12/09/20 11:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/09/20 11:25	
Chlorobenzene	1.0 U	1.0	0.20	1	12/09/20 11:25	
Chloroethane	1.0 U	1.0	0.23	1	12/09/20 11:25	
Chloroform	1.0 U	1.0	0.24	1	12/09/20 11:25	
Chloromethane	1.0 U	1.0	0.28	1	12/09/20 11:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/09/20 11:25	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/09/20 11:25	
Dichloromethane	1.0 U	1.0	0.65	1	12/09/20 11:25	
Ethylbenzene	1.0 U	1.0	0.20	1	12/09/20 11:25	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/09/20 11:25	
Toluene	1.0 U	1.0	0.20	1	12/09/20 11:25	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/09/20 11:25	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/09/20 11:25	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/09/20 11:25	
Xylenes, Total	3.0 U	3.0	0.23	1	12/09/20 11:25	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/09/20 11:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/09/20 11:25	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/09/20 11:25	
o-Xylene	1.0 U	1.0	0.20	1	12/09/20 11:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/09/20 11:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/09/20 11:25	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2015159-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/09/20 11:25	
Dibromofluoromethane	96	80 - 116	12/09/20 11:25	
Toluene-d8	100	87 - 121	12/09/20 11:25	

Client: ARCADIS U.S., Inc. **Service Request:** R2011386
Project: GE Niskayuna Global Research Center/30050762, Task 4000S **Date Analyzed:** 12/09/20
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015159-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.4	20.0	87	75-125
1,1,2,2-Tetrachloroethane	8260C	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	20.7	20.0	103	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	22.0	20.0	110	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.7	20.0	109	71-118
1,2-Dichlorobenzene	8260C	18.5	20.0	93	80-119
1,2-Dichloroethane	8260C	21.8	20.0	109	71-127
1,2-Dichloropropane	8260C	19.7	20.0	99	80-119
1,3-Dichlorobenzene	8260C	17.9	20.0	90	83-121
1,4-Dichlorobenzene	8260C	18.1	20.0	91	79-119
Acrolein	8260C	49.3	40.0	123	13-165
Acrylonitrile	8260C	116	100	116	71-130
Benzene	8260C	19.3	20.0	96	79-119
Bromodichloromethane	8260C	16.6	20.0	83	81-123
Bromoform	8260C	13.6	20.0	68	65-146
Bromomethane	8260C	19.7	20.0	99	42-166
Carbon Tetrachloride	8260C	14.6	20.0	73	70-127
Chlorobenzene	8260C	19.2	20.0	96	80-121
Chloroethane	8260C	19.9	20.0	99	62-131
Chloroform	8260C	21.3	20.0	107	79-120
Chloromethane	8260C	19.1	20.0	96	65-135
Dibromochloromethane	8260C	16.9	20.0	85	72-128
Dichlorodifluoromethane (CFC 12)	8260C	18.8	20.0	94	59-155
Dichloromethane	8260C	21.6	20.0	108	73-122
Ethylbenzene	8260C	18.1	20.0	91	76-120
Tetrachloroethene (PCE)	8260C	16.6	20.0	83	72-125
Toluene	8260C	19.2	20.0	96	79-119
Trichloroethene (TCE)	8260C	16.2	20.0	81	74-122
Trichlorofluoromethane (CFC 11)	8260C	20.1	20.0	100	71-136
Vinyl Chloride	8260C	19.5	20.0	97	74-159
cis-1,2-Dichloroethene	8260C	21.2	20.0	106	80-121
cis-1,3-Dichloropropene	8260C	17.0	20.0	85	77-122
m,p-Xylenes	8260C	35.9	40.0	90	80-126

Client: ARCADIS U.S., Inc.
Project: GE Niskayuna Global Research Center/30050762, Task 4000S
Sample Matrix: Water

Service Request: R2011386
Date Analyzed: 12/09/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015159-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	17.6	20.0	88	79-123
trans-1,2-Dichloroethene	8260C	22.2	20.0	111	73-118
trans-1,3-Dichloropropene	8260C	16.5	20.0	82	71-133

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS

-3-

BLANKS

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Barium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	U	P

Comments:

METALS

-3-

BLANKS

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Barium			3.00	U	3.00	U	3.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Barium			3.00	U							P

Comments:

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-4_20201130S

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Barium	75 - 125	2080.00		32.40		2000.0	102		P

Comments:

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-4_20201130SD

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Barium	75 - 125	2070.00		32.40		2000.0	102		P

Comments:

METALS
-6-
DUPLICATES

SAMPLE NO.

MW-4_20201130SD

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Barium		2080.00		2070.00		0		P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R2011386

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1_2020121

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Barium	2000	2050	102					

Comments: _____

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2011386-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	0.5	1	12/05/20 00:51	
Chloride	9056A	0.20	U	mg/L	0.20	0.05	1	12/03/20 16:10	
Phenolics, Total Recoverable	9066	0.0020	U	mg/L	0.0020	0.0010	1	12/07/20 14:12	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	9	1	12/04/20 14:40	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2011386-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	0.05	1	12/04/20 19:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project:	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	12/01/20
Sample Matrix:	Water	**Date Received:**	12/02/20
		Date Analyzed:	12/5/20

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name:	MW-1_2020121	**Units:**	mg/L
Lab Code:	R2011386-001	**Basis:**	NA
Analysis Method:	SM 5310 C-2000(2011)		

		Matrix Spike R2011386-001MS			**Duplicate Matrix Spike** R2011386-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Carbon, Total Organic (TOC)	2.3	12.4	10.0	101	12.1	10.0	98	48-135	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc.
Project: GE Niskayuna Global Research Center/30050762, Task 4000S
Sample Matrix: Water

Service Request:R2011386
Date Collected:11/30/20
Date Received:12/02/20
Date Analyzed:12/04/20 - 12/07/20

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-4_20201130
Lab Code: R2011386-004

Units:mg/L
Basis:NA

			Matrix Spike				Duplicate Matrix Spike				
			R2011386-004MS				R2011386-004DMS				
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloride	9056A	179	256	80.0	97	256	80.0	97	80-120	<1	15
Phenolics, Total Recoverable	9066	0.0020 U	0.0388	0.0400	97	0.0402	0.0400	100	49-137	3	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.2	11.5	10.0	93	12.5	10.0	104	48-135	9	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	R2011386
Project	GE Niskayuna Global Research Center/30050762, Task 4000S	**Date Collected:**	11/30/20
Sample Matrix:	Water	**Date Received:**	12/02/20
		Date Analyzed:	12/04/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	MW-4_20201130	**Units:**	mg/L
Lab Code:	R2011386-004	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R2011386-004DUP Result	Average	RPD	RPD Limit
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	9	590	584	587	1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: ARCADIS U.S., Inc.
Project: GE Niskayuna Global Research Center/30050762, Task 4000S
Sample Matrix: Water

Service Request: R2011386
Date Analyzed: 12/03/20 - 12/07/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011386-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.87	10.0	99	80-121
Chloride	9056A	1.92	2.00	96	80-120
Phenolics, Total Recoverable	9066	0.0377	0.0400	94	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	872	914	95	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc.
Project: GE Niskayuna Global Research Center/30050762, Task 4000S
Sample Matrix: Water

Service Request: R2011386
Date Analyzed: 12/04/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011386-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.92	2.00	96	80-120

APPENDIX D

Landfill Inspection Form

SITE INSPECTION FORM
GE GLOBAL RESEARCH CENTER
INACTIVE CHEMICAL LANDFILL

EVALUATORS: A. Gibson

DATE OF INSPECTION: 11/30/20

A. SECURITY & ACCESS (Annually)

	Adequate	Needs Attention
1. Site access gate	✓	
2. Fencing	✓	
3. Signs posted - site perimeter	✓	
4. Main access road	✓	

Note evidence of unauthorized entry: None noted

B. COVER AND VEGETATION (Annually)

	Adequate	Needs Attention
1. Top slope (good drainage, no erosion)	✓	
2. Top slope (vegetation quality & density)	✓	
3. Side slopes (good drainage, small erosion)	✓	
4. Side slopes (vegetation quality & density)	✓	

Note evidence of leachate seeps: None noted

C. DRAINAGE (Annually)

	Adequate	Needs Attention
1. North Diversion Channel	✓	
2. West Diversion Channel	✓	
3. Upslope Diversion Channel (inst. 2011)	✓	

D. COMMENTS: (Reference Item No.):

A few of the fence posts on the west side of the landfill are heaving out of the ground making their poured cement visible. Please refer to the photolog. A portion of the western fence is also leaning slightly inward towards the landfill. This doesn't appear to impact the overall integrity of the fencing.

APPENDIX E

Landfill Inspection Photo Log

Project Photographs

GE Global Research Center
Landfill Inspection
Niskayuna, NY

Photo: # 1

Date:
11/30/20

Description:
Gated entrance to the Environmental Control Facility (ECF) and the landfill. Gate is in good condition and can be closed and locked to restrict access to the ECF and landfill areas

Location:
Roadway, looking southwest

Photo: 2

Date:
11/30/20

Description:
Signs on the gated entrance to the ECF and the landfill. Signs are in good condition and contain contact information and an emergency phone number

Location:
ECF and landfill entrance, looking southwest

Project Photographs

GE Global Research Center
Landfill Inspection
Niskayuna, NY

Photo: 3

Date:
11/30/20

Description:
View of landfill from south edge. Landfill is in good condition with adequate cover and drainage.

Location:
South edge of landfill, looking north.

Photo: 4

Date:
11/30/20

Description:
View of landfill from southeast corner. Landfill and eastern fence are in good condition.

Location:
Southeast corner of landfill, looking north.

Project Photographs

GE Global Research Center
Landfill Inspection
Niskayuna, NY

Photo: 5

Date:
12/1/20

Description:
Rock lined drainage interceptor along the west side of the landfill.

Location:
Northwest corner of landfill, looking south.

Photo: 6

Date:
11/30/20

Description:
View of northern fence line. Fence is in good condition.

Location:
Northwest corner of landfill, looking east.

Project Photographs

GE Global Research Center
Landfill Inspection
Niskayuna, NY

Photo: 7

Date:
11/30/20

Description:
View of drainage ditch, in good condition. The ditch is at the and of the rock lined drainage interceptor that borders the landfill to the west.

Location:
North end of landfill, looking north.

Photo: 8

Date:
12/1/20

Description:
Fence on western boundary of landfill. Concrete base of two posts are visible above ground.

Location:
Center of western landfill boundary, looking west.

Project Photographs

GE Global Research Center
Landfill Inspection
Niskayuna, NY

Photo: 9

Date:
11/30/20

Description:
Fence on western side of the landfill leans in toward the landfill. The condition of the fence has not changed significantly since the 2017 inspection.

Location:
Northwest corner of landfill, looking south.

Photo: 10

Date:
11/30/20

Description:
Fence post along the western boundary has detached from fence and is leaning in. This issue was noted during the 2017 inspection, the fence condition does not appear to have changed since then.

Location:
Western border of landfill, looking south.

Arcadis of New York, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com