ARCADIS Design & Consultancy for natural and built assets

Mr. Michael Belveg
New York State Department of Environmental Conservation (NYSDEC)
Region 7 Office
Division of Environmental Remediation
615 Erie Boulevard West
Syracuse, NY 13204

January 26, 2022

Subject: **Stauffer Management Company, LLC – Maestri Site**
NYSDEC Site No. 7-34-025
900 State Fair Boulevard
Town of Geddes, NY

Dear Mr. Belveg:

Arcadis on behalf of Stauffer Management Company, LLC (SMC), is submitting the enclosed 2021 Semi-Annual Groundwater Monitoring Report-November 2021 for the Maestri Site.

If you have any questions or concerns, please do not hesitate to contact me at 315-671-9296 or Rebecca.Hensel@arcadis.com.

Sincerely,

Arcadis

Rebecca Hensel
Project Manager

cc: John-Paul Rossi/Stauffer Management Company, LLC
Victor Finocchiaro/Arcadis

Stauffer Management Company

2021 Semi-Annual Groundwater Monitoring Report – November 2021

Maestri Site, Geddes, NY
NYSDEC Site: 7-34-025

January 2022

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Acronyms and Abbreviations

µg/l	microgram per liter
Arcadis	Arcadis U.S., Inc.
NYSDEC	New York State Department of Environmental Conservation
Offsite Locations	Monitoring locations downgradient from the Site and outside of the fenced area
Site	The completely fenced in area located at 904 State Fair Blvd, Onondaga County, Town of Geddes, New York
SMC	Stauffer Management Company
SMP	2011 Site Management Plan
SOW	Scope of Work
Technical Memo	2021 NYSDEC Response Letter
VOC	Volatile organic compound

1 Introduction

This Semi-Annual Groundwater Monitoring Report has been prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Stauffer Management Company (SMC). SMC entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) to investigate and remediate contaminated media for the Maestri Site, which is an approximately 4.4-acre area located at 904 State Fair Boulevard Onondaga County, Town of Geddes, New York (Figure 1). The portion of the Site that is still currently monitored is approximately 2.5 acres and completely fenced. The Site area is bordered by an empty lot and State Fair Boulevard to the southwest, residents along Alhan Parkway to the Northeast, and wooded lots to the northwest and southeast. Additionally, there are offsite monitoring locations downgradient from the Site and outside of the fenced areas. The Site and offsite locations are shown in Figure 2.

The purpose of this report is to summarize the semi-annual groundwater monitoring event that was completed in November 2021. This report is in accordance with the 2021 NYSDEC Response Letter (Technical Memo) and in compliance with the 2011 Site Management Plan (SMP) (Envirospec Engineering, PLLC 2010). The Technical Memo can be found in Appendix A. The Site has been remediated by SMC under Order on Consent Index # A7-0226-90-03 with the New York State Department of Environmental Conservation (NYSDEC).

2 Background and Site Description

The groundwater treatment system at the SMC Maestri Site began operation in 1996. On May 8, 2008, SMC submitted a request to the NYSDEC to shut down the treatment system.

SMC agreed to conduct weekly Site inspections and monthly sampling of eight perimeter monitoring wells for the first three months following shutdown, from June to August 2008. The elevations of Site monitoring wells were also monitored monthly during this time. After the three-month period, sampling and reporting was conducted quarterly from November 2008 to June 2009.

In June 2009, a new offsite monitoring well (PZ-20) was installed downgradient of the Site in the Alhan Parkway residential area (153 Alhan Parkway) to verify that the Site groundwater contamination plume was not migrating towards this residential area. A second offsite monitoring well (PZ-21) was installed at 151 Alhan Parkway in June 2012.

Based on groundwater monitoring results in November 2009, SMC requested NYSDEC approval to change the groundwater sampling frequency from quarterly to semiannual. On November 13, 2009, the NYSDEC granted the request. Subsequently, the SMP was approved in 2011 by the NYSDEC for monitoring activities at the Maestri Site. The 2011 NYSDEC approved SMP was prepared in accordance with the requirements in NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and the guidelines provided by the NYSDEC. This SMP addresses the means of implementing the Institutional Controls and Engineering Controls that were required by the Declaration of Covenants and Restrictions for the Site.

In October 2020, SMC requested approval from the NYSDEC to reduce the semi-annual sampling requirements of RW-3, RW-5, and RW-8 due to a history of low to non-detections of xylenes. SMC also requested approval from the NYSDEC to remove PZ-4 from the semi-annual monitoring program due to inaccessibility and there being other downgradient wells.

In February 2021, SMC received approval from the NYSDEC in the Technical Memo, approving the requests to remove PZ-4 from the monitoring program and reducing the sampling frequency of RW-3, RW-5, and RW-8 from semi-annual to annual and can be found in Appendix A.

3 Groundwater Monitoring

3.1 Groundwater Elevations

The second 2021 semi-annual groundwater monitoring event was conducted from November 11 thru November 12, 2021 for 24 monitoring locations. The monitoring wells were gauged on November 11, 2021, while purging and sampling took place November 11 and 12, 2021. The groundwater elevations are presented in Table 1 and Figure 3 and are consistent with historical results.

3.2 Groundwater Sampling

During the second 2021 semi-annual groundwater monitoring event, six monitoring wells were sampled in accordance with the Technical Memo and the Site SMP.

As per the May 2021 NYSDEC approval email (Appendix B), all monitoring well locations were purged using low-flow techniques. The use of low-flow techniques will be evaluated, and recommendations will be provided in the Annual Periodic Review Report.

Monitoring wells were purged with a two-inch submersible pump and polyethylene tubing. Purged water was containerized in a mobile polyethylene tank. The containerized water is temporarily stored within the fenced Site area and will be later transported to a regulated disposal facility for disposal. Field data, including pH, temperature, conductivity, turbidity, oxidation-reduction potential, dissolved oxygen, and total dissolved solids, were recorded during purging. A summary of the field data (Table 2) and the total volume of groundwater purged can be found in the monitoring well sampling logs that are presented in Appendix C.

Field Quality Assurance/Quality Control samples were collected at a rate of one set for every 20 and consisted of a blind duplicate, and matrix spike/matrix spike duplicate. Additionally, for each day of sampling a trip blank and equipment blank were collected and analyzed. Samples were sent to Eurofins TestAmerica in Edison, NJ, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program certified laboratory. The groundwater analytical samples were analyzed following typical chain of custody procedures for Xylene analysis using United States Environmental Protection Agency Method 624.1. A summary of total xylene results from this sampling event is presented in Table 3 and the laboratory reports in Appendix D.

4 Groundwater Analysis and Results

Arcadis conducted data validation of the laboratory reports to confirm the analytical data is of sufficient quality for usage. The data review reports containing the data validation details are included as Appendix E. The review was conducted as a Tier III evaluation and included review of 100% of the data packages for completeness. The data review found all data quality acceptable for use.

Of the 6 locations that were sampled, only RW-6 exceeded the site specific cleanup goal for total xylenes and is shown in Figure 4. RW-6 had a concentration of 18 µg/L total xylene and is consistent with historical results. Table 4 presents the total xylene concentrations from 2006 through 2021 for each individual sampled location. Total xylene concentrations historically indicated seasonal fluctuations across semi-annual monitoring events, specifically in RW-6, MW-2A, RW-7, and MW-9. Historically, total xylene levels for monitoring locations within the fenced Site area have ranged from non-detect to above the site-specific cleanup value. Although levels at RW-6 exceed the site-specific cleanup value, downgradient wells PZ-20 and PZ-21 continue to be non-detect, and there is no indication that the plume is migrating to this area. The historic data prior to 2021 is presented in Figure 5.

5 Site Inspections

During November 2021 event, a Site inspection was completed. According to the Site Management Plan dated August 2010, Site inspections are to be completed annually. During the inspection the site was secure, and no vandalism, fence breaches or lock issues were identified. The site had recently been mowed, no bald spots were identified, and no vegetation required attention at the time. Monitoring well locations were in good condition and appropriately secured. Based upon these inspection findings, there were no issues and no action items required. A copy of the Site inspection report completed during November 2021 is included as Appendix F.

6 Conclusions and Next steps

The Site inspection conducted during the November 2021 event showed that the Engineering Controls continue to be effective since the groundwater treatment system shutdown.

The six monitoring locations sampled during the November 2021 event had one exceedance of the site specific cleanup goal for total xylene at RW-6, and in comparison, with Site historic sampling data, there is no migration of total xylene to the offsite downgradient wells.

The NYSDEC approved SMC's proposal to reduce the sampling frequency requirement of RW-3, RW-5, and RW-8 from semi-annual to annual given the non-detect results observed for total xylenes for the past several monitoring rounds. Since monitoring locations RW-3, RW-5, and RW-8 were sampled during the first 2021 event, they were not sampled during the November 2021 event.

The NYSDEC will be notified prior to the next sampling event, and the next semi-annual sampling and Site inspection will be completed in Spring 2022. The use of low-flow techniques will be evaluated, and recommendations will be provided in the Annual Periodic Review Report.

7 Reference

Envirospec Engineering, PLLC. 2010. *Site Management Plan,* Maestri Site, Onondaga County, New York, NYSDEC Site Number: 7-34-025. Prepared for Stauffer Management Company. August.

Tables

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
2021 SEMI-ANNUAL MONITORING REPORT - NOVEMBER 2021
MAESTRI SITE
GEDDES, NEW YORK

Designation	Top of Casing Elevation (ft msl)	November 11, 2021	
		Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-2A	406.40	14.55	391.85
MW-9	408.87	14.02	394.85
MW-10	413.82	7.49	406.33
MW-14	405.17	16.55	388.62
PZ-2	407.23	10.73	396.50
PZ-3	409.60	13.95	395.65
PZ-5	393.37	5.91	387.46
PZ-6	410.15	14.10	396.05
PZ-7	409.13	14.04	395.09
PZ-9	408.69	13.40	395.29
PZ-10	407.04	12.50	394.54
PZ-12	408.17	13.40	394.77
PZ-13	407.12	12.93	394.19
PZ-14	408.44	11.02	397.42
PZ-15	406.74	17.11	389.63
PZ-18	406.30	17.12	389.18
PZ-19	406.88	17.10	389.78
PZ-20	386.00	5.30	380.70
PZ-21	386.70	2.71	383.99
RW-3	407.01	17.75	389.26
RW-5	409.18	13.49	395.69
RW-6	393.64	5.80	387.84
RW-7	405.76	16.60	389.16
RW-8	406.81	13.65	393.16

Notes:

Groundwater Elevation is determined using the following formula: (Top of Casing Elevation - Depth to Water).

Monitoring well MW-2A was formerly known as RW-2 in 2006.

Top of Casing Elevation and Ground Water Elevation are in units of feet mean sea level (ft msl).

TABLE 2
SUMMARY OF FIELD WATER QUALITY DATA
2021 SEMI-ANNUAL MONITORING REPORT - NOVEMBER 2021
MAESTRI SITE
GEDDES, NEW YORK

Designation	Date Sampled	Diameter (in)	Total Well Depth (ft bgs)	Top of Casing to Grade (ft)	Depth to Water (ft)	Final pH	Final Temp (deg C)	Final Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	DO (mg/L)
MW-2A (formerly RW-2)	11/12/2021	8	23.01	2.7	14.49	6.99	13.41	1.158	-31.80	1.01	0.36
MW-9	11/12/2021	2	18.45	1	13.73	6.88	14.72	1.128	-45.7	1.77	0.88
PZ-20	11/12/2021	2	19.64	0	4.05	7.46	14.98	1.011	-52.50	10.10	1.22
PZ-21	11/12/2021	2	18.80	0	1.14	7.60	13.25	1.109	-119	16.2	0.03
RW-6	11/11/2021	6	18.80	0	5.77	7.90	12.88	1.510	-142.4	9.86	0.01
RW-7	11/12/2021	6	27.88	1	15.20	7.09	13.64	1.166	-92.6	8.34	0.07

Notes:
bgs = Below Ground Surface
deg C = Degree Celsius
DO = Dissolved Oxygen
ft = Feet
in = Inches
mV = Millivolts
mg/L = Milligrams per Liter
mS/cm = MilliSiemens per Centimeter
NTU = Nephelometric Turbidity Units
ORP = Oxidation-Reduction Potential

TABLE 3
SUMMARY OF TOTAL XYLENE CONCENTRATIONS IN GROUNDWATER
2021 SEMI-ANNUAL MONITORING REPORT - NOVEMBER 2021
MAESTRI SITE
GEDDES, NEW YORK

Sample Name: Date Collected: Lab Sample ID:	Site Specific Cleanup Goals (µg/L)	MW-2A 11/12/2021 460-247382-2	MW-9 11/12/2021 460-247382-4	PZ-20 11/12/2021 460-247382-7
Volatile Organic Compounds				
Xylenes, Total	5	<2.0 [<2.0]	<2.0	<2.0

Sample Name: Date Collected: Lab Sample ID:	Site Specific Cleanup Goals (µg/L)	PZ-21 11/12/2021 460-247382-6	RW-6 11/12/2021 460-247382-1	RW-7 11/12/2021 460-247382-5
Volatile Organic Compounds				
Xylenes, Total	5	<2.0	**18**	<2.0

Notes:

All analytical results are in micrograms per liter (µg/L).

All samples were analyzed by Eurofins TestAmerica in Edison, NJ.

Bold value and shading denotes that the concentration exceeded site specific cleanup goals.

Site specific cleanup goals are based on the site remedial action objectives from the 2011 Site Management Plan.

< = Constituent is not detected; the associated value is the reporting limit

[ ] = Indicates field duplicate sample result

TABLE 4
SUMMARY OF HISTORIC TOTAL XYLENE CONCENTRATIONS
2021 SEMI-ANNUAL MONITORING REPORT - NOVEMBER 2021
MAESTRI SITE
GEDDES, NEW YORK

Date Collected	MW-2A	MW-9	PZ-4	PZ-20	PZ-21	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
2-May-06	2400	NS	NS	*****	******	<3.0	**	<3.0	58	<30	<3.0
6-Jun-06	NS	NS	NS	*****	******	<3.0	**	<3.0	9	102	<3.0
4-Jul-06	665	NS	NS	*****	******	<3.0	**	<3.0	34	130	NS
1-Aug-06	NS	NS	NS	*****	******	5	**	<3.0	63	90	<3.0
3-Oct-06	<3.0	NS	NS	*****	******	3.3	**	<3.0	3	55	NS
2-Jan-07	<3.0	NS	NS	*****	******	<3.0	**	<3.0	29	40	NS
3-Apr-07	6.4	NS	NS	*****	******	INC	**	<3.0	145	3.7	NS
3-Jul-07	410	NS	NS	*****	******	<3.0	**	<3.0	<3.0	<3.0	NS
2-Oct-07	1025	NS	NS	*****	******	<3.0	**	<3.0	30	6	NS
7-Jan-08	3.0	11	NS	*****	******	<3.0	**	14	52	<3.0	NS
1-Apr-08	987	NS	NS	*****	******	22	**	<3.0	27	15	NS
Treatment System Shutdown on May 27th, 2008											
Jun-08	68 [54]	964	<3.0	*****	******	6.1	**	<3.0	84	119	<3.0
Jul-08	1,700	1,800	<3.0	*****	******	4.4	**	<3.0 [<3.0]	71	124	<3.0
Aug-08	1,770 [1,200]	1,795	<3.0	*****	******	4.3	**	<3.0	148	104	<3.0
Nov-08	16	73	<3.0	*****	******	<3.0	**	<3.0	158	73	<3.0
Feb-09	9.1	<3.0	<3.0	*****	******	<3.0	**	<3.0	590	<3.0 [<3.0]	<3.0
Jun-09	4,635	7,830	<3.0	<3.0	******	<3.0	**	<3.0	641	23	<3.0
Dec-09	5,780	5,145	<3.0	<3.0	******	<3.0	**	<3.0	417	169	<3.0
May-10	100 [122]	190	<3.0	<3.0	******	<3.0	**	<3.0	862	15	<3.0
Oct-10	32	<3.0	<3.0	<3.0	******	<3.0	**	<3.0	168 [157]	71	<3.0
Apr-11	685	3,598 [3,220]	10	<3.0	******	<3.0	**	<3.0	208	66	<3.0
Jun-11	5,352	9,337	<3.0	<3.0	******	NS	**	NS	906	7.7 [7.8]	NS
Nov-11	1,560 [1,980]	3.8	<3.0	<3.0	******	<3.0	**	<3.0	749	<3.0	<3.0
Jun-12	230 [179]	5,370	<3.0	< 3.0	<3.0	<3.0	**	<3.0	622	41	<3.0
Dec-12	2,903	NS (DRY)	<3.0	<3.0 [<3.0]	<3.0	<3.0	**	13	511	145	7.2
Jun-13	<3.0	<3.0 [<3.0]	4.1	< 3.0	<3.0	<3.0	**	<3.0	14	<3.0	<3.0
Nov-13	2,722	7.0	4.9	< 3.0	<3.0 [<3.0]	<3.0	**	<3.0	418	91	<3.0

TABLE 4
SUMMARY OF HISTORIC TOTAL XYLENE CONCENTRATIONS
2021 SEMI-ANNUAL MONITORING REPORT - NOVEMBER 2021
MAESTRI SITE
GEDDES, NEW YORK

Date Collected	MW-2A	MW-9	PZ-4	PZ-20	PZ-21	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
Jun-14	4,700	2,800	<3.0	< 3.0	3.5	<3.0	**	<3.0 [<3.0]	770	8.0	<3.0
Oct-14	825	145	7.1	<1.0	<1.0	<1.0	**	<1.0	466 [470]	184.0	<1.0
May-15	407	<1.0	5.3	<1.0	<1.0 [<1.0]	<1.0	**	<1.0	604	16.6	2.0
Nov-15	769	739	5.3	<1.0	<1.0	15.4	**	<1.1	183 [208]	5.2	3.4
Apr-16	261	< 1.0	5.7	<1.0	<1.0	<1.0	**	<1.0	707	22.6 [23.2]	<1.0
Oct-16	68.3	< 1.0	4.3	<1.0	<1.0	<1.0	**	<1.0	88.9 [94.5]	<1.0	<1.0
Apr-17	3,350	3,380	6.4	<1.0	<1.0 [<1.0]	<1.0	**	<1.0	333	0.4	<1.0
Nov-17	<3.0	<3.0	4.6	<3.0	< 3.0	<3.0	**	< 3.0	<3.0	3.0	<3.0 [<3.0]
Jun-18	1,020	870	10	<3.0	<3.0	<3.0	**	<3.0	70	21	<3.0 [<3.0]
Oct-18	170 [160]	410	4.3	<1.0	<1.0	<1.0	**	<1.0	150	13	<1.0
May-19	1,630	6,400 [3,700]	5.8	<1.0	<1.0	<1.0	**	<1.0	300	33	1.6
Oct-19	32 [23]	230	4.3J	<1.0	<1.0	<1.0	**	<1.0	9.5	<1.0	<1.0
May-20	1,270 [1,630]	1,270	5.2	<5.0	<5.0	<5.0	**	<5.0	267	<5.0	<5.0
Oct-20	284	520	NA	<5.0	<5.0	<5.0	**	<5.0 [<5.0]	62	114	<5.0
May-21	<2.0	<2.0 [<2.0]	NA	<2.0	<2.0	<2.0	**	<2.0	<2.0	<2.0	<2.0
Nov-21	<2.0 [<2.0]	<2.0	NA	<2.0	<2.0	NR	**	NR	18	<2.0	NR

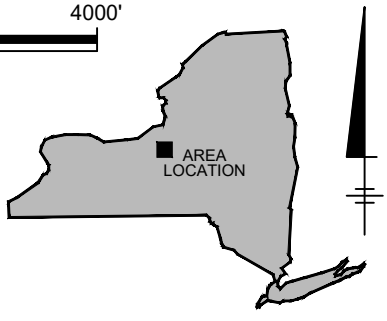
Notes:
All analytical results are in micrograms per liter (µg/L).
November 2021 samples were analyzed by Eurofins TestAmerica in Edison, NJ.
Monitoring well MW-2A was formerly known as RW-2 in 2006.
INC = Inconclusive laboratory result
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
NA = Not available
NS = Not sampled
NR = Not required for sampling
** = Wells No. 1 and 4 were removed as part of the excavation
***** = PZ-20 was installed on June 24, 2009
****** = PZ-21 was installed on June 7, 2012
[ ] = Indicates field duplicate sample result
< = Constituent is not detected; the associated value is the reporting limit

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., CAMILLUS AND SYRACUSE WEST, NEW YORK, 2019.

0 2000' 4000'

SCALE



MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

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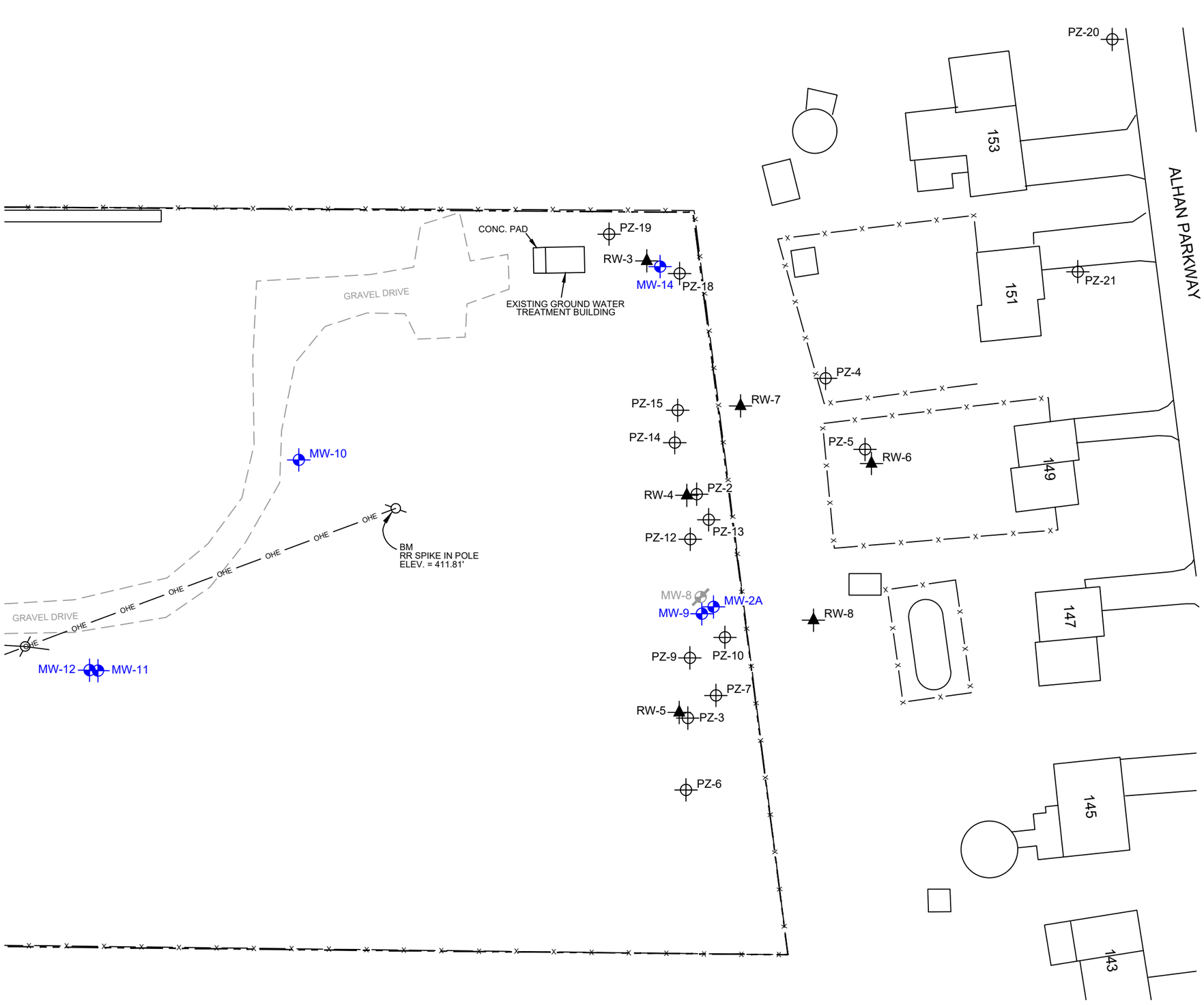

LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER

NOTES:

1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.

0 60' 120'

SCALE

MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

SITE PLAN

ARCADIS

FIGURE
2

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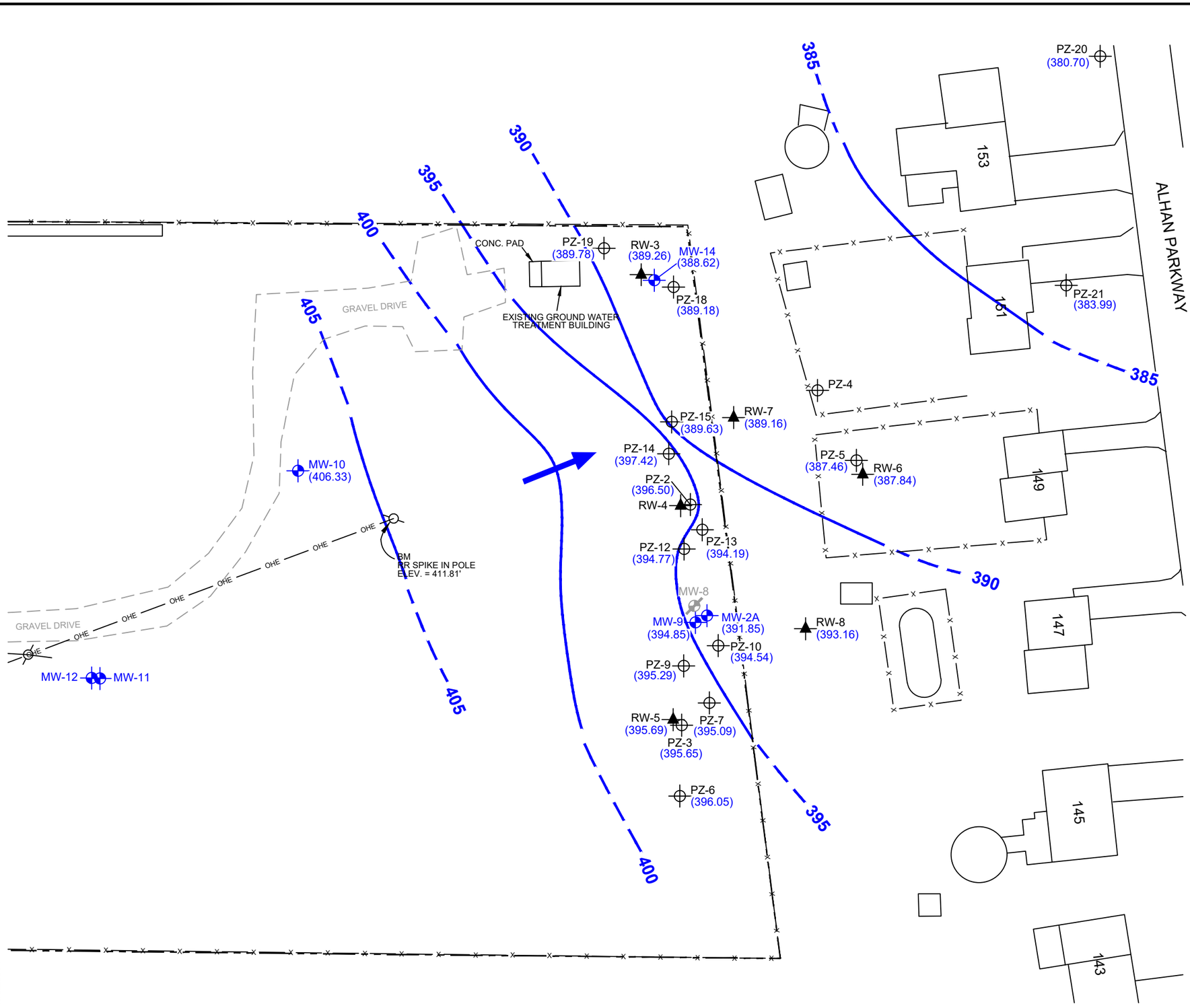

LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- (380.70) GROUNDWATER ELEVATION (FEET)
- 380 GROUNDWATER ELEVATION CONTOUR (FEET, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.
3. MONITORING WELLS WITHOUT GROUNDWATER ELEVATIONS ARE NOT GAUGED.

0 60' 120'

SCALE

MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

GROUNDWATER ELEVATION CONTOUR MAP NOVEMBER 11, 2021

ARCADIS

FIGURE 3

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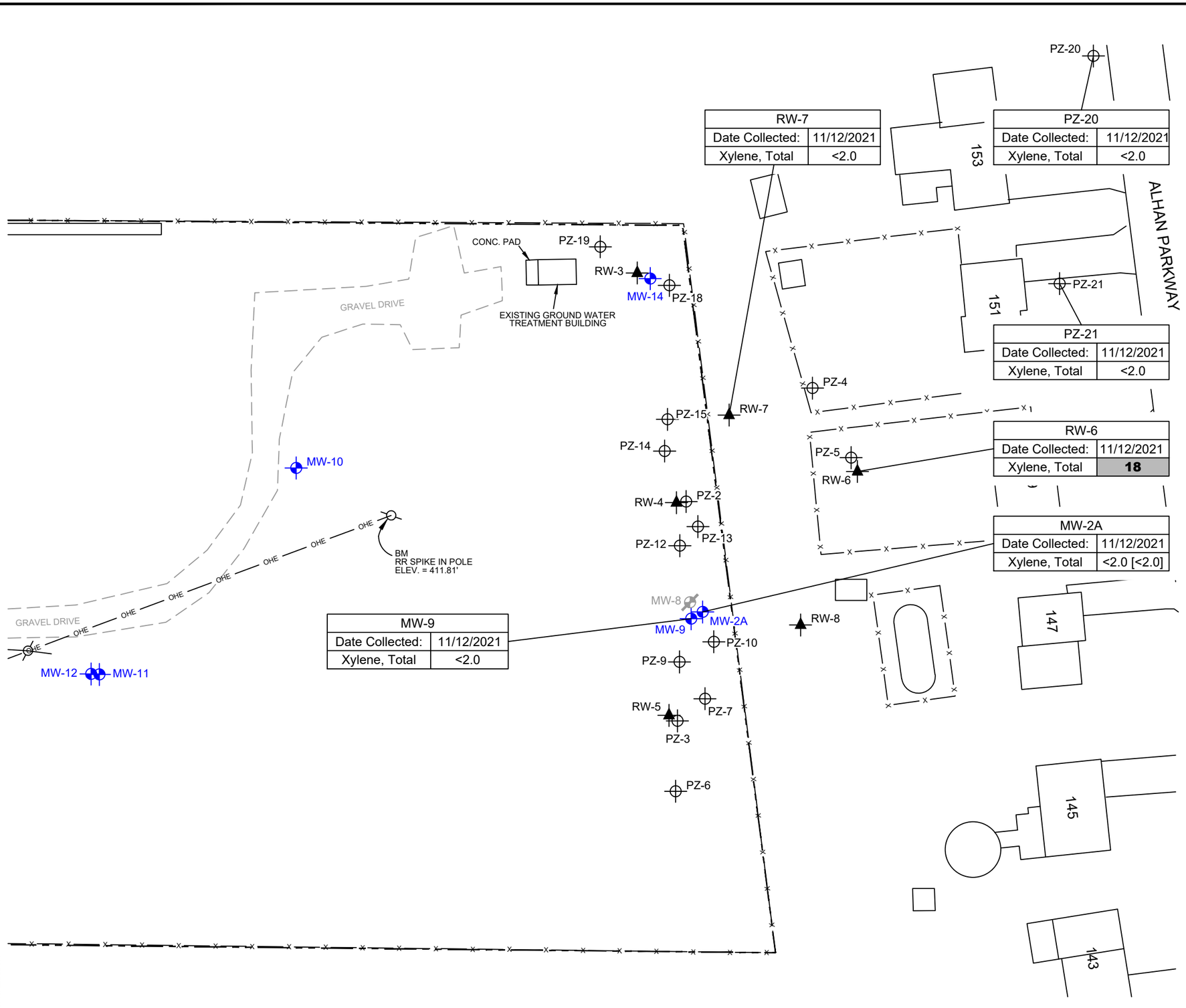


LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER

Site Specific Cleanup Goals	
Xylene, Total	5

NOTES:

1. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).
2. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
3. BOLD VALUE AND SHADING DENOTES THAT THE CONCENTRATION WAS DETECTED ABOVE THE SITE SPECIFIC CLEANUP GOALS
4. FEATURES AND LOCATIONS ARE APPROXIMATE.
5. < = CONSTITUENT IS NOT DETECTED AND THE ASSOCIATED VALUE IS THE REPORTING LIMIT
6. [ ] = INDICATES FIELD DUPLICATE SAMPLE RESULT

0 60' 120'

SCALE

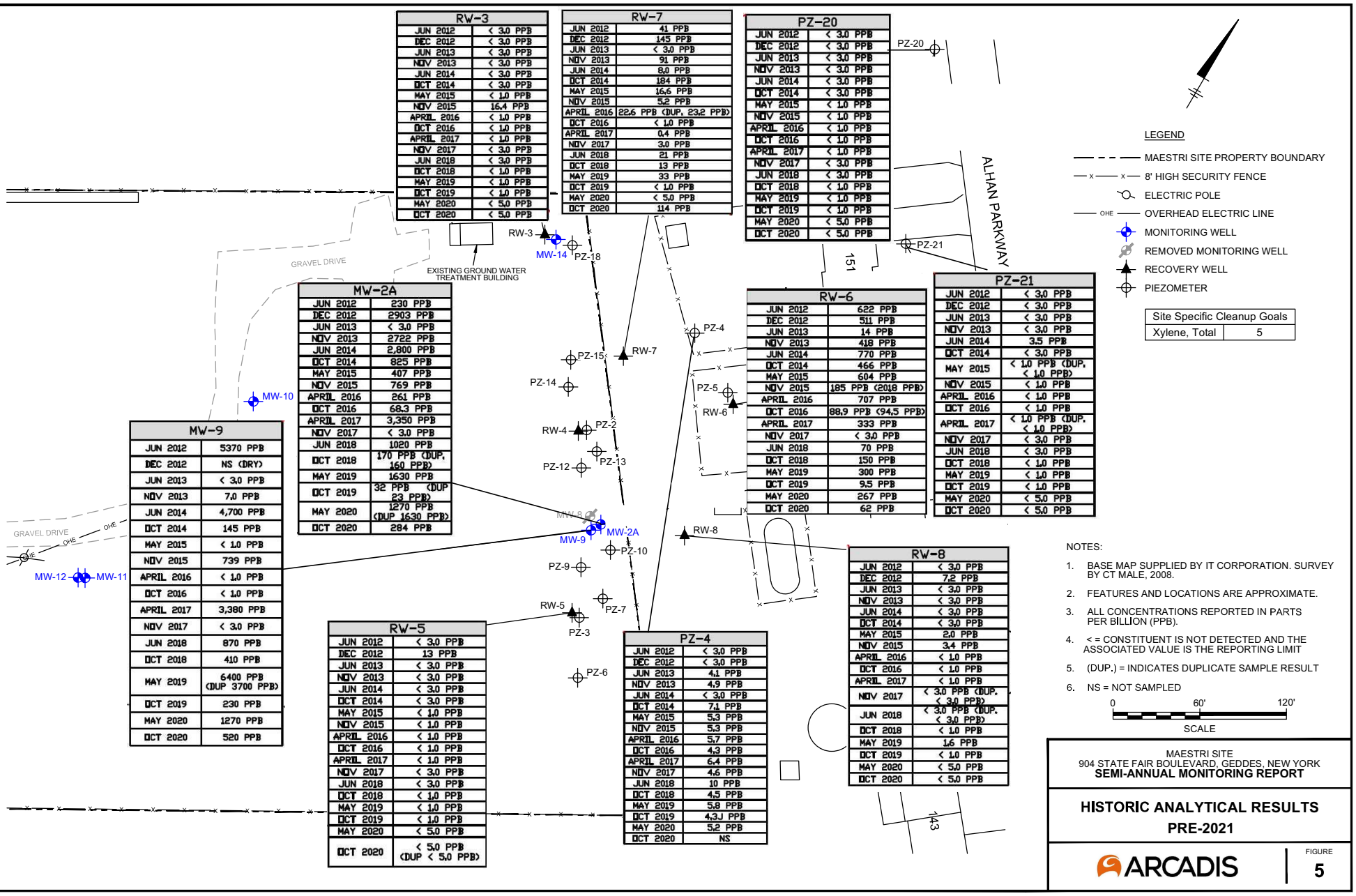
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE 4

C:\Users\JDLoving\OneDrive - ARCADIS\AUS-ASTRAZENECA-MAESTRI-GEDDES New York\Project Files\2021\01-In Progress\01-DWG\GEN-F04-GWA_111221.dwg LAYOUT: 4 SAVED: 11/24/2021 12:39 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/24/2021 12:53 PM BY: LOVING, JEFF
XREFS: IMAGES: PROJECTNAME: ----
GEN-X-BASEMAP
GEN-X-TITLEBLOCK
Arcadis Logo_2021.PNG


RW-3
JUN 2012 < 3.0 PPB
DEC 2012 < 3.0 PPB
JUN 2013 < 3.0 PPB
NOV 2013 < 3.0 PPB
JUN 2014 < 3.0 PPB
OCT 2014 < 3.0 PPB
MAY 2015 < 1.0 PPB
NOV 2015 16.4 PPB
APRIL 2016 < 1.0 PPB
OCT 2016 < 1.0 PPB
APRIL 2017 < 1.0 PPB
NOV 2017 < 3.0 PPB
JUN 2018 < 3.0 PPB
OCT 2018 < 1.0 PPB
MAY 2019 < 1.0 PPB
OCT 2019 < 1.0 PPB
MAY 2020 < 5.0 PPB
OCT 2020 < 5.0 PPB
RW-7
JUN 2012 41 PPB
DEC 2012 145 PPB
JUN 2013 < 3.0 PPB
NOV 2013 91 PPB
JUN 2014 8.0 PPB
OCT 2014 184 PPB
MAY 2015 16.6 PPB
NOV 2015 5.2 PPB
APRIL 2016 22.6 PPB (DUP. 23.2 PPB)
OCT 2016 < 1.0 PPB
APRIL 2017 0.4 PPB
NOV 2017 3.0 PPB
JUN 2018 21 PPB
OCT 2018 13 PPB
MAY 2019 33 PPB
OCT 2019 < 1.0 PPB
MAY 2020 < 5.0 PPB
OCT 2020 114 PPB
PZ-20
JUN 2012 < 3.0 PPB
DEC 2012 < 3.0 PPB
JUN 2013 < 3.0 PPB
NOV 2013 < 3.0 PPB
JUN 2014 < 3.0 PPB
OCT 2014 < 3.0 PPB
MAY 2015 < 1.0 PPB
NOV 2015 < 1.0 PPB
APRIL 2016 < 1.0 PPB
OCT 2016 < 1.0 PPB
APRIL 2017 < 1.0 PPB
NOV 2017 < 3.0 PPB
JUN 2018 < 3.0 PPB
OCT 2018 < 1.0 PPB
MAY 2019 < 1.0 PPB
OCT 2019 < 1.0 PPB
MAY 2020 < 5.0 PPB
OCT 2020 < 5.0 PPB
PZ-21
JUN 2012 < 3.0 PPB
DEC 2012 < 3.0 PPB
JUN 2013 < 3.0 PPB
NOV 2013 < 3.0 PPB
JUN 2014 3.5 PPB
OCT 2014 < 3.0 PPB
MAY 2015 < 1.0 PPB (DUP. < 1.0 PPB)
NOV 2015 < 1.0 PPB
APRIL 2016 < 1.0 PPB
OCT 2016 < 1.0 PPB
APRIL 2017 < 1.0 PPB (DUP. < 1.0 PPB)
NOV 2017 < 3.0 PPB
JUN 2018 < 3.0 PPB
OCT 2018 < 1.0 PPB
MAY 2019 < 1.0 PPB
OCT 2019 < 1.0 PPB
MAY 2020 < 5.0 PPB
OCT 2020 < 5.0 PPB
MW-2A
JUN 2012 230 PPB
DEC 2012 2903 PPB
JUN 2013 < 3.0 PPB
NOV 2013 2722 PPB
JUN 2014 2,800 PPB
OCT 2014 825 PPB
MAY 2015 407 PPB
NOV 2015 769 PPB
APRIL 2016 261 PPB
OCT 2016 68.3 PPB
APRIL 2017 3,350 PPB
NOV 2017 < 3.0 PPB
JUN 2018 1020 PPB
OCT 2018 170 PPB (DUP. 160 PPB)
MAY 2019 1630 PPB
OCT 2019 32 PPB (DUP 23 PPB)
MAY 2020 1270 PPB (DUP 1630 PPB)
OCT 2020 284 PPB
RW-6
JUN 2012 622 PPB
DEC 2012 511 PPB
JUN 2013 14 PPB
NOV 2013 418 PPB
JUN 2014 770 PPB
OCT 2014 466 PPB
MAY 2015 604 PPB
NOV 2015 185 PPB (2018 PPB)
APRIL 2016 707 PPB
OCT 2016 88.9 PPB (94.5 PPB)
APRIL 2017 333 PPB
NOV 2017 < 3.0 PPB
JUN 2018 70 PPB
OCT 2018 150 PPB
MAY 2019 300 PPB
OCT 2019 9.5 PPB
MAY 2020 267 PPB
OCT 2020 62 PPB
MW-9
JUN 2012 5370 PPB
DEC 2012 NS (DRY)
JUN 2013 < 3.0 PPB
NOV 2013 7.0 PPB
JUN 2014 4,700 PPB
OCT 2014 145 PPB
MAY 2015 < 1.0 PPB
NOV 2015 739 PPB
APRIL 2016 < 1.0 PPB
OCT 2016 < 1.0 PPB
APRIL 2017 3,380 PPB
NOV 2017 < 3.0 PPB
JUN 2018 870 PPB
OCT 2018 410 PPB
MAY 2019 6400 PPB (DUP 3700 PPB)
OCT 2019 230 PPB
MAY 2020 1270 PPB
OCT 2020 520 PPB
RW-8
JUN 2012 < 3.0 PPB
DEC 2012 7.2 PPB
JUN 2013 < 3.0 PPB
NOV 2013 < 3.0 PPB
JUN 2014 < 3.0 PPB
OCT 2014 < 3.0 PPB
MAY 2015 2.0 PPB
NOV 2015 3.4 PPB
APRIL 2016 < 1.0 PPB
OCT 2016 < 1.0 PPB
APRIL 2017 < 1.0 PPB
NOV 2017 < 3.0 PPB (DUP. < 3.0 PPB)
JUN 2018 < 3.0 PPB (DUP. < 3.0 PPB)
OCT 2018 < 1.0 PPB
MAY 2019 1.6 PPB
OCT 2019 < 1.0 PPB
MAY 2020 < 5.0 PPB
OCT 2020 < 5.0 PPB
RW-5
JUN 2012 < 3.0 PPB
DEC 2012 13 PPB
JUN 2013 < 3.0 PPB
NOV 2013 < 3.0 PPB
JUN 2014 < 3.0 PPB
OCT 2014 < 3.0 PPB
MAY 2015 < 1.0 PPB
NOV 2015 < 1.0 PPB
APRIL 2016 < 1.0 PPB
OCT 2016 < 1.0 PPB
APRIL 2017 < 1.0 PPB
NOV 2017 < 3.0 PPB
JUN 2018 < 3.0 PPB
OCT 2018 < 1.0 PPB
MAY 2019 < 1.0 PPB
OCT 2019 < 1.0 PPB
MAY 2020 < 5.0 PPB
OCT 2020 < 5.0 PPB (DUP < 5.0 PPB)
PZ-4
JUN 2012 < 3.0 PPB
DEC 2012 < 3.0 PPB
JUN 2013 4.1 PPB
NOV 2013 4.9 PPB
JUN 2014 < 3.0 PPB
OCT 2014 7.1 PPB
MAY 2015 5.3 PPB
NOV 2015 5.3 PPB
APRIL 2016 5.7 PPB
OCT 2016 4.3 PPB
APRIL 2017 6.4 PPB
NOV 2017 4.6 PPB
JUN 2018 10 PPB
OCT 2018 4.5 PPB
MAY 2019 5.8 PPB
OCT 2019 4.3J PPB
MAY 2020 5.2 PPB
OCT 2020 NS
RW-3
MW-14
PZ-18
RW-7
PZ-15
PZ-14
MW-10
RW-4
PZ-2
PZ-12
PZ-13
MW-8
MW-9
MW-2A
PZ-10
PZ-9
RW-5
PZ-7
PZ-3
PZ-6
PZ-4
PZ-5
RW-6
RW-8
PZ-20
PZ-21
MW-12
MW-11
EXISTING GROUND WATER TREATMENT BUILDING
GRAVEL DRIVE
GRAVEL DRIVE
OHE
ALHAN PARKWAY
151
143
LEGEND
MAESTRI SITE PROPERTY BOUNDARY
8' HIGH SECURITY FENCE
ELECTRIC POLE
OVERHEAD ELECTRIC LINE
MONITORING WELL
REMOVED MONITORING WELL
RECOVERY WELL
PIEZOMETER
Site Specific Cleanup Goals
Xylene, Total 5
NOTES:
1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.
3. ALL CONCENTRATIONS REPORTED IN PARTS PER BILLION (PPB).
4. < = CONSTITUENT IS NOT DETECTED AND THE ASSOCIATED VALUE IS THE REPORTING LIMIT
5. (DUP.) = INDICATES DUPLICATE SAMPLE RESULT
6. NS = NOT SAMPLED
0 60' 120'
SCALE
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT
HISTORIC ANALYTICAL RESULTS
PRE-2021
ARCADIS
FIGURE
5

Appendix A

2021 NYSDEC Response Letter

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 7
615 Erie Boulevard West, Syracuse, NY 13204-2400
P: (315) 426-7519, (315) 426-7551 | F: (315) 426-2653
www.dec.ny.gov

February 16, 2021

Charles Elmendorf
Stauffer Management Company, LLC
1800 Concord Pike
P.O. Box 15437
Wilmington, DE 19850

RE: Maestri Site, Town of Geddes, NY
NYSDEC Site# 734025
October 2020 Semi-Annual Groundwater Monitoring Report

Dear Mr. Elmendorf:

Thank you for providing the above referenced Groundwater Monitoring Report dated November 2020 for the Maestri Site in Town of Geddes, New York.

The NYSDEC has reviewed the Report and the proposed modifications to the groundwater monitoring program. The DEC recommends the following changes to the proposed modifications:

- The sampling frequency for Wells RW-3, RW-5, and RW-8 can be reduced to annually. If the samples remain non-detect or below the method detection limit of the test procedures through 2022, the wells can be decommissioned in accordance with NYSDEC Commissioner Policy 43: Groundwater Monitoring Well Decommissioning Policy; and
- Well PZ-4 can be decommissioned in accordance with NYSDEC Commissioner Policy 43: Groundwater Monitoring Well Decommissioning Policy.

Should you have any questions please contact me at (315) 426-7446 and thanks again for your efforts in continuing to move this project forward.

Sincerely,

Michael Belveg
Assistant Engineer (Environmental), Division of Environmental Remediation

Ec: Joshua Cook, NYSDEC
Margaret Rudzinski, Envirospec Engineering, PLLC
John-Paul Rossi, AstraZeneca

Appendix B

NYSDEC Low-Flow Approval Email

Matt, Luke

Subject: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

---

From: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Sent: Tuesday, May 18, 2021 11:32 AM
To: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>; Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>
Subject: Re: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Hi Rebecca,

This is acceptable to the Department for the 2021 sampling events.

Thanks,
Mike

From: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Sent: Thursday, May 13, 2021 2:09 PM
To: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>; Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>
Subject: RE: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

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Good Morning Mike,

Thank you again for taking time to discuss the sampling activities at the Maestri site. As discussed during the meeting Stauffer Management Company is requesting to utilize low flow groundwater sampling methodology in place of 3 volume purge for the 2021 sampling events (May &October). A results comparison of the new results from the Low Flow sampling will be compared to the previously collected 3 Volume purge samples in the 2021 Periodic Review Report.

Please let us know if this is acceptable and if you have any additional questions

Thank you,
Rebecca

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com
Arcadis | U.S., Inc.
110 West Fayette Street Suite 300, Syracuse, NY | 13202 | USA
T. +1 315.671.9296 C. +1 315.751.3069

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Be green, leave it on the screen.

From: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Sent: Tuesday, May 11, 2021 11:30 AM
To: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>; Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Subject: RE: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Thanks Mike for the information and taking the time to meet with us. Look forward to working with you on this matter. Best, John-Paul

From: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Sent: Tuesday, May 11, 2021 9:14 AM
To: rebecca.hensel@arcadis.com
Cc: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Subject: Re: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

james.sullivan@health.ny.gov

From: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Sent: Monday, May 3, 2021 5:38 PM
To: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>; Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Subject: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

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

Good Afternoon Michael,

Arcadis has recently taken over the sampling and reporting activities for the Maestri and Novack sites and we would like to set up an introduction meeting to discuss upcoming sampling events and sampling methodologies.

Please let me know if you have preferred days/times you would like to meet.

Thank you,
Rebecca

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com
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Appendix C

Sampling Forms

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 2

Project Number: 30077261

Date: 11/1/21

Sampling Time: 1700

Weather: cloudy 57°

Task: 0.01

Well ID: RW-6

Well Headspace PID: N/A

Sampled By: Z. OLeary

Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)

Purging Information

Casing Material: steel

Casing Diameter: 6 in

Total Depth: 18.8 ft

Depth to Product: N/A ft

Depth to Water: 5.77 ft

Water Column: 13.03 ft

Gallons in Well: 19.154 gal

Purge Method: (circle one) ~~Submersible~~ Centrifugal Bladder

Screen Interval: From: 374.74 To: 384.74

Pump Intake Setting: 383.0

Total Volume Purged: 30 gal

Pump on: 1454 Off: 1655

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1500	0	~~200~~	~~5~~.9	19.0	7.01	53.8	1.26	13.08	0.19	0.812	
1505	5	~~300~~	6.12	15.4	7.06	49.5	1.254	13.08	0.18	0.808	
1510	10	~~350~~	6.11	14.6	7.13	~~75.8~~	1.231	13.08	0.15	0.800	
1515	15	~~500~~	6.2	14.4	7.21	-5.1	1.220	13.08	0.15	0.793	
1520	20	500	6.25	13.7	7.26	-28	1.208	13.09	0.11	0.785	
1525	25	500	6.25	12.8	7.31	-47.8	1.195	13.10	0.10	0.776	
1530	30	500	6.22	13.3	7.35	-68.7	1.188	13.09	0.11	0.772	
1535	35	500	6.25	11.7	7.38	-77.3	1.190	13.08	0.14	0.773	
1540	40	500	6.25	10.1	7.42	-87.9	1.200	13.09	0.24	0.780	
1545	45	500	6.26	10.1	7.45	-96.4	1.211	13.08	0.18	0.788	
1550	50	500	6.3	8.72	7.51	-107.0	1.242	13.05	0.08	0.808	
1555	55	500	6.31	7.81	7.53	-111.1	1.254	13.04	0.05	0.815	
1600	60	~~800~~	~~4~~.2	—	—	—	—	—	—	—	high flow
1605	65	~~800~~	8.5	—	—	—	—	—	—	—	high flow
1610	70	1000	8.9	—	—	—	—	—	—	—	high flow then turned off pump

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: None, clear

Odor: None

Well Condition: Good

Purge Water Disposal: 250 gal poly tank

ARCADIS

Page 2 of 2

Maestri Site Semi-Annual Event

Well ID: RW-6

Project Number: 30077261 Task:

Date: Well Headspace PID:

Sampling Time: Sampled By:

Weather: Coded Replicate No.:

Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #:	PID	Water Quality Meter(s)

Purging Information

Casing Material:

Casing Diameter: in

Total Depth: ft

Depth to Product: ft

Depth to Water: ft

Water Column: ft

Gallons in Well: gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: To:

Pump Intake Setting:

Total Volume Purged:

Pump on: Off:

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1630	0	400	6.3	31.75	7.86	-117.3	1.485	12.86	0.18	0.965	low flow to stabilize
1635	5	350	6.3	27.80	7.84	-122.9	1.487	12.84	0.04	0.967	
1640	10	350	6.29	20.30	7.86	-131.7	1.493	12.83	0.02	0.971	
1645	15	350	6.29	12.60	7.88	-132.8	1.499	12.84	0.02	0.978	
1650	20	350	6.28	11.70	7.89	-138.0	1.505	12.85	0.02	0.980	
1655	25	350	6.26	9.86	7.90	-142.4	1.510	12.88	0.01	0.981	
	30										
	35										
	40										
	45										
	50										
	55										
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color:

Odor:

Well Condition:

Purge Water Disposal:

ARCADIS

Page 1 of

Maestri Site Semi-Annual Event

Well ID: MW-2A

Project Number: 30077261 Task: 0.01

Date: 11/12/21 Well Headspace PID: N/A

Sampling Time: 10:40 Sampled By: Z. OLeary

Weather: rainy 50s Coded Replicate No.: —

Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
	✓	

Purging Information

Casing Material: Steel

Casing Diameter: 8 in

Total Depth: 23.01 ft

Depth to Product: N/A ft

Depth to Water: 14.49 ft

Water Column: 8.52 ft

Gallons in Well: 22.29 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: 386.86 To: 396.86 Elev. ft bgs

Pump Intake Setting: 390 ft bgs

water level at 391.91

Total Volume Purged: ~5 gal

Pump on: 936 Off: 1035

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	<10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
945	0	200	14.5	1.13	6.80	34.4	1.33	13.27	4.6	0.864	
950	5	200	14.5	0.91	6.89	-3.4	1.286	13.5	2.21	0.836	
955	10	200	14.5	0.93	6.91	-9.5	1.258	13.54	0.99	0.817	
1000	15	200	14.5	1.01	6.92	-11.2	1.23	13.46	0.69	0.801	
1005	20	200	14.5	1.26	6.95	-18	1.216	13.38	1.81	0.790	
1010	25	200	14.5	0.88	6.96	-17.5	1.205	13.96	0.4	0.793	
1015	30	200	14.5	0.93	6.97	-26.5	1.199	13.94	0.34	0.783	
1020	35	200	14.5	0.91	6.97	-30.5	1.192	13.34	0.52	0.775	
1025	40	200	14.5	0.94	6.94	-30.6	1.174	13.14	0.41	0.763	
1030	45	200	14.5	0.99	6.98	-30.8	1.163	13.27	0.40	0.757	
1035	50	200	14.5	1.01	6.99	-31.8	1.156	13.41	0.36	0.753	
	55										
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear

Odor: None

Well Condition: Good

Purge Water Disposal: 350 gal polytank

ARCADIS Page 1 of 1

Maestri Site Semi-Annual Event **Well ID:** MW-9

Project Number: 30077261 Task: 0.01

Date: 11/12/21 Well Headspace PID: N/A

Sampling Time: 1200 Sampled By: Z.Oleary

Weather: rainy, 50's Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)

Purging Information

Casing Material: PVC

Casing Diameter: 2 in

Total Depth: 15.45 ft

Depth to Product: N/A ft

Depth to Water: 13.13 ft

Water Column: 4.72 ft

Gallons in Well: 0.755 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: 387 To: 397 ftbl. bgs

Pump Intake Setting: 393.5 ft bgs

water level was at ~395.12

Total Volume Purged: ~2 gal

Pump on: 1115 Off: 1155

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1120	0	300	14.17	13.4	6.93	-54.6	1.171	13.66	2.04	0.76	
1125	5	350	14.21	8.28	6.93	-54.6	1.175	14.38	1.87	0.764	
1130	10	200	14.43	5.71	6.91	-49.3	1.161	14.61	1.23	0.757	
1135	15	150	14.45	2.33	6.9	-44.8	1.157	14.86	1.17	0.752	
1140	20	150	14.46	1.78	6.88	-41.9	1.152	15.07	1.13	0.748	
1145	25	150	14.45	1.82	6.88	-40.4	1.144	14.82	0.86	0.743	
1150	30	150	14.45	1.67	6.87	-41.5	1.136	14.64	0.90	0.738	
1155	35	150	14.45	1.77	6.88	-45.7	1.128	14.72	0.88	0.734	
	40										
	45										
	50										
	55										
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear Well Condition: Good

Odor: None Purge Water Disposal: 250 gal poly tank

ARCADIS Page 1 of 1

Maestri Site Semi-Annual Event **Well ID:** RW-7

Project Number: 30077261 Task: 0.01

Date: 11/12/21 Well Headspace PID: N/A

Sampling Time: 1350 Sampled By: Z. Oleary

Weather: partly cloudy 50's Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)

Purging Information

Casing Material: steel

Casing Diameter: 6 in

Total Depth: 27.86 ft

Depth to Product: N/A ft

Depth to Water: 15.2 ft

Water Column: 12.68 ft

Gallons in Well: 18.640 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: 384.26 To: 394.26 ftbgs

Pump Intake Setting: 389 ftbgs

water level at 390.56

Total Volume Purged: ~3.5 gal

Pump on: 1259 Off: 1345

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (ºC)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1300	0	250	15.17	9.48	7.13	-79	1.183	13.17	1.0	0.769	
1305	5	300	15.18	7.96	7.11	-84.5	1.170	13.20	0.59	0.760	
1310	10	300	15.18	8.53	7.13	-88	1.165	15.30	0.38	0.757	
1315	15	300	15.17	8.65	7.11	-93.8	1.163	13.39	0.21	0.756	
1320	20	300	15.17	5.09	7.10	-97.6	1.165	13.46	0.13	0.758	
1325	25	275	15.18	7.13	7.11	-96.8	1.164	13.29	0.11	0.757	
1330	30	275	15.18	8.52	7.11	-96.5	1.162	13.56	0.18	0.756	
1335	35	275	15.18	8.24	7.11	-92.0	1.168	13.69	0.08	0.759	
1340	40	275	15.18	8.03	7.10	-91.7	1.167	13.71	0.08	0.758	
1345	45	275	15.18	4.34	7.09	-92.4	1.166	13.64	0.07	0.758	
	50										
	55										
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: clear

Odor:

Well Condition: Good

Purge Water Disposal: 250 gal poly tank

ARCADIS

Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: PZ-21

Project Number: 30077261 Task: 0.01

Date: 11/12/21 Well Headspace PID: N/A

Sampling Time: 1545 Sampled By: ZOleary

Weather: partly cloudy 50's Coded Replicate No.: —

Replicate Type (circle one): Duplicate ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)

Purging Information

Casing Material: PVC

Casing Diameter: 2 in

Total Depth: 18.8 ft

Depth to Product: N/A ft

Depth to Water: 1.17 ft

Water Column: 17.63 ft

Gallons in Well: 2.82 ~~[illegible]~~ gal

Purge Method: (circle one) ~~Submersible~~ Centrifugal Bladder

Screen Interval: From: 366.7 To: 376.7

Pump Intake Setting: 375.

Total Volume Purged: ~ 30gal

Pump on: 1424 Off: 1540

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1425	0	2000	2.77	39.1	7.79	-54.4	0.779	13.35	8.39	0.516	high flow to draw down
1430	5	2500	4.9	—	—	—	—	—	—	—	Purging to screen
1435	10	3000	5.4	—	—	—	—	—	—	—	purging to screen
1440	15	3000	6.3	—	—	—	—	—	—	—	Purging to screen battery ended.
1455	20	3600	8.9	—	—	—	—	—	—	—	purging to screen
1505	25	350	1.35	821	7.57	-101.8	1.174	13.81	0.58	0.764	low flow to stability
1510	30	200	1.2	197	7.56	-107.6	1.162	13.67	0.12	0.756	
1515	35	200	1.18	83.8	7.56	-108.7	1.159	13.63	0.08	0.753	
1520	40	200	1.18	48.2	7.58	-110.4	1.162	13.65	0.05	0.755	
1525	45	250	1.13	39.9	7.58	-112.4	1.132	13.62	0.02	0.736	
1530	50	250	1.13	30.5	7.58	-113.1	1.138	13.58	0.01	0.739	
1535	55	250	1.12	21.7	7.59	-117.1	1.125	13.56	0.02	0.713	
1540	60	250	1.1	16.2	7.60	-119.	1.109	13.25	0.03	0.715	
~~[illegible]~~	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: ~~clear~~ grey

Odor:

Well Condition: Good

Purge Water Disposal: 250 gal poly tank.

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 1

Project Number: 30077261

Date: 11/12/21

Sampling Time: 720

Weather: Sunny 50s

Task: 8.01

Well ID: PZ-20

Well Headspace PID: N/A

Sampled By: J. O'Leary

Coded Replicate No.: —

Replicate Type (circle one): Duplicate ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)

Purging Information

Casing Material: PVC

Casing Diameter: 2 in

Total Depth: 19.64 ft

Depth to Product: N/A ft

Depth to Water: 4.05 ft

Water Column: 11.54 ft

Gallons in Well: 1.846 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: 366.7 To: 376.7

Pump Intake Setting: 375

Total Volume Purged: water level at 381.95

Pump on: 1628 Off: 1715

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1630	0	1000	9.9	—	—	—	—	—	—	—	high flow to screen
1635	5	300	10.23	111	7.82	-12.9	0.678	15.98	3.92	0.446	low flow to stability
1640	10	300	10.25	68.2	7.50	-2.4	0.992	15.64	2.22	0.646	
1645	15	200	10.2	57.0	7.43	-34.9	1.191	14.90	1.44	0.773	
1650	20	200	10.1	40.1	7.49	-54.9	1.108	15.12	1.40	0.655	
1655	25	200	10.02	32.4	7.46	-49.6	1.098	14.84	1.44	0.660	
1700	30	200	10.04	21.7	7.47	-50.1	1.042	14.87	1.38	0.651	
1705	35	200	10.03	16.9	7.45	-51.3	1.026	14.88	1.31	0.654	
1710	40	200	10.03	11.83	7.46	-51.9	1.015	14.92	1.24	0.653	
1715	45	200	10.02	10.1	7.46	-52.5	1.011	14.98	1.22	0.657	
	50										
	55										
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear

Odor:

Well Condition: Good

Purge Water Disposal: 250 gal poly tank

Appendix D

Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-247382-1
Client Project/Site: Maestri - Geddes, NY
Revision: 1

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Lukas Matt

Authorized for release by:
11/23/2021 2:53:50 PM

Grace Chang, Project Manager II
(732)593-2579
Grace.Chang@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

Job ID: 460-247382-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Maestri - Geddes, NY

Report Number: 460-247382-1

Revision 1 (Sample dates corrected for samples 1, 10 & 11)

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/13/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples RW-6 (460-247382-1), MW-2A (460-247382-2), BD (11122021) (460-247382-3), MW-9 (460-247382-4), RW-7 (460-247382-5), PZ-21 (460-247382-6), PZ-20 (460-247382-7), FB (11122021) (460-247382-8), TB (11122021) (460-247382-9), TB (11112021) (460-247382-10) and FB (11112021) (460-247382-11) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 11/16/2021 and 11/17/2021.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Client Sample ID: RW-6 — Lab Sample ID: 460-247382-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	18		2.0	0.65	ug/L	1		624.1	Total/NA

Client Sample ID: MW-2A — Lab Sample ID: 460-247382-2

No Detections.

Client Sample ID: BD (11122021) — Lab Sample ID: 460-247382-3

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 460-247382-4

No Detections.

Client Sample ID: RW-7 — Lab Sample ID: 460-247382-5

No Detections.

Client Sample ID: PZ-21 — Lab Sample ID: 460-247382-6

No Detections.

Client Sample ID: PZ-20 — Lab Sample ID: 460-247382-7

No Detections.

Client Sample ID: FB (11122021) — Lab Sample ID: 460-247382-8

No Detections.

Client Sample ID: TB (11122021) — Lab Sample ID: 460-247382-9

No Detections.

Client Sample ID: TB (11112021) — Lab Sample ID: 460-247382-10

No Detections.

Client Sample ID: FB (11112021) — Lab Sample ID: 460-247382-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW-6

Lab Sample ID: 460-247382-1

Date Collected: 11/11/21 17:00

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	18		2.0	0.65	ug/L			11/17/21 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*60 - 140*		*11/17/21 00:48*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 00:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 00:48*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 00:48*	*1*

Client Sample ID: MW-2A

Lab Sample ID: 460-247382-2

Date Collected: 11/12/21 10:40

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*60 - 140*		*11/17/21 01:10*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*11/17/21 01:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*		*11/17/21 01:10*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 01:10*	*1*

Client Sample ID: BD (11122021)

Lab Sample ID: 460-247382-3

Date Collected: 11/12/21 10:00

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 01:32*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*11/17/21 01:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 01:32*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/17/21 01:32*	*1*

Client Sample ID: MW-9

Lab Sample ID: 460-247382-4

Date Collected: 11/12/21 12:00

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 01:54*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 01:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 01:54*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/17/21 01:54*	*1*

Client Sample ID: RW-7

Lab Sample ID: 460-247382-5

Date Collected: 11/12/21 13:50

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*60 - 140*		*11/17/21 02:16*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 02:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*11/17/21 02:16*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 02:16*	*1*

Client Sample ID: PZ-21

Lab Sample ID: 460-247382-6

Date Collected: 11/12/21 15:45

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 02:38*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*11/17/21 02:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 02:38*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/17/21 02:38*	*1*

Client Sample ID: PZ-20

Lab Sample ID: 460-247382-7

Date Collected: 11/12/21 17:20

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*60 - 140*		*11/17/21 03:00*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 03:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*11/17/21 03:00*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 03:00*	*1*

Client Sample ID: FB (11122021)

Lab Sample ID: 460-247382-8

Date Collected: 11/12/21 10:01

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/21 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*60 - 140*		*11/16/21 22:57*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*11/16/21 22:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/16/21 22:57*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*11/16/21 22:57*	*1*

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Client Sample ID: TB (11122021)

Lab Sample ID: 460-247382-9

Date Collected: 11/12/21 00:00
Matrix: Water
Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/21 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*60 - 140*		*11/16/21 23:20*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/16/21 23:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/16/21 23:20*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*11/16/21 23:20*	*1*

Client Sample ID: TB (11112021)

Lab Sample ID: 460-247382-10

Date Collected: 11/11/21 00:00
Matrix: Water
Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*60 - 140*		*11/17/21 00:04*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*11/17/21 00:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/17/21 00:04*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 00:04*	*1*

Client Sample ID: FB (11112021)

Lab Sample ID: 460-247382-11

Date Collected: 11/11/21 10:01
Matrix: Water
Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 00:26*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*11/17/21 00:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/17/21 00:26*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*11/17/21 00:26*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-247382-1	RW-6	107	107	111	101
460-247382-2	MW-2A	105	108	112	101
460-247382-2 MS	MW-2A	100	105	108	99
460-247382-2 MSD	MW-2A	102	105	107	102
460-247382-3	BD (11122021)	106	111	111	99
460-247382-4	MW-9	106	107	111	99
460-247382-5	RW-7	107	107	109	101
460-247382-6	PZ-21	106	110	111	99
460-247382-7	PZ-20	105	107	108	101
460-247382-8	FB (11122021)	109	109	110	102
460-247382-9	TB (11122021)	108	107	110	102
460-247382-10	TB (11112021)	107	109	110	101
460-247382-11	FB (11112021)	106	108	110	100
LCS 460-813646/5	Lab Control Sample	102	105	109	102
MB 460-813646/9	Method Blank	106	107	111	103

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-813646/9
Matrix: Water
Analysis Batch: 813646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/21 19:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/16/21 19:17*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/16/21 19:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/16/21 19:17*	*1*
Toluene-d8 (Surr)	*103*		*60 - 140*		*11/16/21 19:17*	*1*

Lab Sample ID: LCS 460-813646/5
Matrix: Water
Analysis Batch: 813646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			40.0	40.3		ug/L		101	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*60 - 140*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*102*		*60 - 140*

Lab Sample ID: 460-247382-2 MS
Matrix: Water
Analysis Batch: 813646

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total	2.0	U	40.0	45.2		ug/L		113	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: 460-247382-2 MSD
Matrix: Water
Analysis Batch: 813646

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	2.0	U	40.0	44.4		ug/L		111	60 - 140	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*60 - 140*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*102*		*60 - 140*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

GC/MS VOA

Analysis Batch: 813646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-247382-1	RW-6	Total/NA	Water	624.1	
460-247382-2	MW-2A	Total/NA	Water	624.1	
460-247382-3	BD (11122021)	Total/NA	Water	624.1	
460-247382-4	MW-9	Total/NA	Water	624.1	
460-247382-5	RW-7	Total/NA	Water	624.1	
460-247382-6	PZ-21	Total/NA	Water	624.1	
460-247382-7	PZ-20	Total/NA	Water	624.1	
460-247382-8	FB (11122021)	Total/NA	Water	624.1	
460-247382-9	TB (11122021)	Total/NA	Water	624.1	
460-247382-10	TB (11112021)	Total/NA	Water	624.1	
460-247382-11	FB (11112021)	Total/NA	Water	624.1	
MB 460-813646/9	Method Blank	Total/NA	Water	624.1	
LCS 460-813646/5	Lab Control Sample	Total/NA	Water	624.1	
460-247382-2 MS	MW-2A	Total/NA	Water	624.1	
460-247382-2 MSD	MW-2A	Total/NA	Water	624.1	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Client Sample ID: RW-6
Lab Sample ID: 460-247382-1
Date Collected: 11/11/21 17:00
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 00:48	VBP	TAL EDI

Client Sample ID: MW-2A
Lab Sample ID: 460-247382-2
Date Collected: 11/12/21 10:40
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 01:10	VBP	TAL EDI

Client Sample ID: BD (11122021)
Lab Sample ID: 460-247382-3
Date Collected: 11/12/21 10:00
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 01:32	VBP	TAL EDI

Client Sample ID: MW-9
Lab Sample ID: 460-247382-4
Date Collected: 11/12/21 12:00
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 01:54	VBP	TAL EDI

Client Sample ID: RW-7
Lab Sample ID: 460-247382-5
Date Collected: 11/12/21 13:50
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 02:16	VBP	TAL EDI

Client Sample ID: PZ-21
Lab Sample ID: 460-247382-6
Date Collected: 11/12/21 15:45
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 02:38	VBP	TAL EDI

Client Sample ID: PZ-20
Lab Sample ID: 460-247382-7
Date Collected: 11/12/21 17:20
Matrix: Water
Date Received: 11/13/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 03:00	VBP	TAL EDI

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Client Sample ID: FB (11122021)
Date Collected: 11/12/21 10:01
Date Received: 11/13/21 19:00

Lab Sample ID: 460-247382-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/16/21 22:57	VBP	TAL EDI

Client Sample ID: TB (11122021)
Date Collected: 11/12/21 00:00
Date Received: 11/13/21 19:00

Lab Sample ID: 460-247382-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/16/21 23:20	VBP	TAL EDI

Client Sample ID: TB (11112021)
Date Collected: 11/11/21 00:00
Date Received: 11/13/21 19:00

Lab Sample ID: 460-247382-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 00:04	VBP	TAL EDI

Client Sample ID: FB (11112021)
Date Collected: 11/11/21 10:01
Date Received: 11/13/21 19:00

Lab Sample ID: 460-247382-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	813646	11/17/21 00:26	VBP	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 460-247382-1
Project/Site: Maestri - Geddes, NY

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-247382-1	RW-6	Water	11/11/21 17:00	11/13/21 19:00
460-247382-2	MW-2A	Water	11/12/21 10:40	11/13/21 19:00
460-247382-3	BD (11122021)	Water	11/12/21 10:00	11/13/21 19:00
460-247382-4	MW-9	Water	11/12/21 12:00	11/13/21 19:00
460-247382-5	RW-7	Water	11/12/21 13:50	11/13/21 19:00
460-247382-6	PZ-21	Water	11/12/21 15:45	11/13/21 19:00
460-247382-7	PZ-20	Water	11/12/21 17:20	11/13/21 19:00
460-247382-8	FB (11122021)	Water	11/12/21 10:01	11/13/21 19:00
460-247382-9	TB (11122021)	Water	11/12/21 00:00	11/13/21 19:00
460-247382-10	TB (11112021)	Water	11/11/21 00:00	11/13/21 19:00
460-247382-11	FB (11112021)	Water	11/11/21 10:01	11/13/21 19:00

Chain of Custody Record

546254 eurofins | Environment Testing TestAmerica

Address: 777 New Durham Rd. Edison, NJ 08817
Phone: 732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

TAL-8210

Client Contact	
Company Name:	Arcadis U.S. Inc.
Address:	110 W Fayette St.
City/State/Zip:	Syracuse, NY
Phone:	315-446-9120
Fax:	
Project Name:	SMC Maestri site
Site:	Geddes, NY 13209
P O #	30077261

Project Manager: Victor Finocchiaro | Site Contact: Lukas Maft | Date: 11/12/2021 | COC No: 1 of 2 COCs

Tel/Email: | Lab Contact: Kristyn Tempe | Carrier: Test America

Sampler:

For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.: 247362

Analysis Turnaround Time
☒ CALENDAR DAYS ☐ WORKING DAYS
TAT if different from Below ________
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Syracuse #225

460-247382 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Volatile Organics-Xylenes (method 8260)	Sample Specific Notes:
RW-6	11/11/21	1700	G	W	3	N	N	X	1
MW-2A	11/12/21	1040	G	W	3	N	N	X	2
MS MW-2A	11/12/21	1045	G	W	3	N	Y	X	3 2
MSD MW-2A	11/12/21	1050	G	W	3	N	Y	X	4 2
BD (11122021)	11/12/21	1000	G	W	3	N	N	X	5 3
MW-9	11/12/21	1200	G	W	3	N	N	X	4
RW-7	11/12/21	1350	G	W	3	N	N	X	5
PZ-21	11/12/21	1545	G	W	3	N	N	X	6
PZ-20	11/12/21	1720	G	W	3	N	N	X	7
FB (11122021)	11/12/21	1001	G	W	3	N	N	X	8
TB (11122021)	11/12/21	—	G	W	2	N	N	X	9
TB (11112021)	11/11/21	—	G	W	2	N	N	X	10

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other ________

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for ________ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ________ Corr'd: ________ | Therm ID No.: ________

Relinquished by: [signature]	Company: Arcadis	Date/Time: 11/12/21 1820	Received by: R. English	Company: Syr	Date/Time: 11-12-21, 1820
Relinquished by: R. English	Company: Syr 11-12-21	Date/Time: 1900	Received by: [signature]	Company: [illegible]	Date/Time: 11/13/21
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

fedex 60/5.5 IR9 M/S

TestAmerica Edison
777 New Durham Road

Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ Other

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	2 of 2 COCs
Address: 110 W. Fayette St.			Sampler:
City/State/Zip: Syracuse, NY	TAT if different from Below:		For Lab Use Only:
(315) 446-9120 (Phone)	☑ Standard 2 weeks		Walk-in Client:
(FAX)	☐ 1 week		Lab Sampling: Syracuse
Project Name: SMC Maestri Site	☐ 2 days		
Site: Geddes, NY 13209	☐ 1 day		Job / SDG No.: 247382 #225
P O # 30077261			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
FB (11112021)	11/11/21	1005	G	W	3	X						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						1/2						

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Non-Hazard ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Disposal by Lab

Special Instructions/QC Requirements & Comments:

Custody Seals Intact? Yes	Custody Seal No.:			Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID
Relinquished by:	Company: Arcadis	Date/Time: 11/12/21 1820	Received by:	Date/Time: 11-12-21 18:20		
Relinquished by:	Company: Sun 11-12-21	Date/Time: 1902	Received by:	Date/Time: 11/13/21 0025		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Date/Time:		

Form No. CA-C-WI-002 Rev. 4.2

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 247382

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	6.0 ℃	5.5 ℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 11/13/2

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-247382-1

Login Number: 247382
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-247382-1

Login Number: 247382
List Number: 2
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Appendix E

Data Validation Reports

SMC Maestri Site

Data Usability Summary Report

Geddes, New York

Volatile Organic Compound (VOC) Analyses

SDG # 460-247382-1

Analyses Performed By:
Eurofins TestAmerica
Edison, New Jersey

Report #43526R
Review Level: Tier III
Project: 30077261.00003

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) #460-247382-1 for samples collected in association with the SMC Maestri site located in Geddes, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG Number	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
460-247382-1	RW-6	460-247382-1	Water	11/11/2021		X				
	MW-2A	460-247382-2	Water	11/12/2021		X				
	BD (11122021)	460-247382-3	Water	11/12/2021	MW-2A	X				
	MW-9	460-247382-4	Water	11/12/2021		X				
	RW-7	460-247382-5	Water	11/12/2021		X				
	PZ-21	460-247382-6	Water	11/12/2021		X				
	PZ-20	460-247382-7	Water	11/12/2021		X				
	FB (11122021)	460-247382-8	Water	11/12/2021		X				
	TB (11122021)	460-247382-9	Water	11/12/2021		X				
	TB (11112021)	460-247382-10	Water	11/11/2021		X				
	FB (11112021)	460-247382-11	Water	11/11/2021		X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location MW-2A.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA Quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 624.1 (Xylene, Total only). Data were reviewed in accordance with the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate and USEPA Region II validation guidelines *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B* (SOP #HW-24, October 2006).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound is considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
EPA 624.1	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:
s.u. Standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 24-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (35%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) within the EPA Method 624 Table 5 limits.

All compounds associated with the initial and continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-2A /BD (11122021)	Xylene, Total	2.0 U	2.0 U	AC

Notes:

U Not detected

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: EPA 624.1	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate (MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	

VOCs: EPA 624.1	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Sample Compliance Report

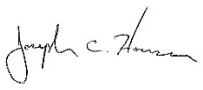
SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOC	SVOC	PFAS	MISC	
460-247382-1	11/11/2021	EPA 624.1	RW-6	Water	Yes	--	--	--	
	11/12/2021		MW-2A	Water	Yes	--	--	--	
	11/12/2021		BD (11122021)	Water	Yes	--	--	--	
	11/12/2021		MW-9	Water	Yes	--	--	--	
	11/12/2021		RW-7	Water	Yes	--	--	--	
	11/12/2021		PZ-21	Water	Yes	--	--	--	
	11/12/2021		PZ-20	Water	Yes	--	--	--	
	11/12/2021		FB (11122021)	Water	Yes	--	--	--	
	11/12/2021		TB (11122021)	Water	Yes	--	--	--	
	11/11/2021		TB (11112021)	Water	Yes	--	--	--	
	11/11/2021		FB (11112021)	Water	Yes	--	--	--	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: November 23, 2021

PEER REVIEW: Lisa Horton

DATE: November 23, 2021

Chain of Custody Corrected Sample Analysis Data Sheets

Client Sample ID: RW-6

Lab Sample ID: 460-247382-1

Date Collected: 11/11/21 17:00

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	18		2.0	0.65	ug/L			11/17/21 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*60 - 140*		*11/17/21 00:48*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 00:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 00:48*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 00:48*	*1*

Client Sample ID: MW-2A

Lab Sample ID: 460-247382-2

Date Collected: 11/12/21 10:40

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*60 - 140*		*11/17/21 01:10*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*11/17/21 01:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*		*11/17/21 01:10*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 01:10*	*1*

Client Sample ID: BD (11122021)

Lab Sample ID: 460-247382-3

Date Collected: 11/12/21 10:00

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 01:32*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*11/17/21 01:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 01:32*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/17/21 01:32*	*1*

Client Sample ID: MW-9

Lab Sample ID: 460-247382-4

Date Collected: 11/12/21 12:00

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 01:54*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 01:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 01:54*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/17/21 01:54*	*1*

Client Sample ID: RW-7

Lab Sample ID: 460-247382-5

Date Collected: 11/12/21 13:50

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*60 - 140*		*11/17/21 02:16*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 02:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*11/17/21 02:16*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 02:16*	*1*

Client Sample ID: PZ-21

Lab Sample ID: 460-247382-6

Date Collected: 11/12/21 15:45

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 02:38*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*11/17/21 02:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*11/17/21 02:38*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/17/21 02:38*	*1*

Client Sample ID: PZ-20

Lab Sample ID: 460-247382-7

Date Collected: 11/12/21 17:20

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*60 - 140*		*11/17/21 03:00*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/17/21 03:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*11/17/21 03:00*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 03:00*	*1*

Client Sample ID: FB (11122021)

Lab Sample ID: 460-247382-8

Date Collected: 11/12/21 10:01

Matrix: Water

Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/21 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*60 - 140*		*11/16/21 22:57*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*11/16/21 22:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/16/21 22:57*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*11/16/21 22:57*	*1*

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-247382-1

Client Sample ID: TB (11122021)

Lab Sample ID: 460-247382-9

Date Collected: 11/12/21 00:00
Matrix: Water
Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/16/21 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*60 - 140*		*11/16/21 23:20*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/16/21 23:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/16/21 23:20*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*11/16/21 23:20*	*1*

Client Sample ID: TB (11112021)

Lab Sample ID: 460-247382-10

Date Collected: 11/11/21 00:00
Matrix: Water
Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*60 - 140*		*11/17/21 00:04*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*11/17/21 00:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/17/21 00:04*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*11/17/21 00:04*	*1*

Client Sample ID: FB (11112021)

Lab Sample ID: 460-247382-11

Date Collected: 11/11/21 10:01
Matrix: Water
Date Received: 11/13/21 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/17/21 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*60 - 140*		*11/17/21 00:26*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*11/17/21 00:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*11/17/21 00:26*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*11/17/21 00:26*	*1*

Chain of Custody Record

546254 eurofins Environment Testing TestAmerica

Address: 777 New Durham Rd. Edison, NJ 08817
Phone: 732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

TAL-8210

Client Contact		Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	Date: 11/12/2021	COC No:
Company Name:	Arcadis U.S. Inc.	Tel/Email:	Lab Contact: Kristyn Tempe	Carrier: Test America	1 of 2 COCs
Address:	110 W Fayette St.	Analysis Turnaround Time			Sampler:
City/State/Zip:	Syracuse, NY	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	315-446-9120	TAT if different from Below			Walk-in Client:
Fax:		☒ 2 weeks			Lab Sampling:
Project Name:	SMC Maestri site	☐ 1 week			
Site:	Geddes, NY 13209	☐ 2 days			Job / SDG No.: 247362
P O #	30077261	☐ 1 day			

Syracuse #225

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Volatile Organics - Xylene (Method 8260)	Sample Specific Notes:
RW-6	11/11/21	1700	G	W	3	N	N	X	1
MW-2A	11/12/21	1040	G	W	3	N	N	X	2
MS MW-2A	11/12/21	1045	G	W	3	N	Y	X	3 2
MSD MW-2A	11/12/21	1050	G	W	3	N	Y	X	4 2
BD (11122021)	11/12/21	1000	G	W	3	N	N	X	5 3
MW-9	11/12/21	1200	G	W	3	N	N	X	4
RW-7	11/12/21	1350	G	W	3	N	N	X	5
PZ-21	11/12/21	1545	G	W	3	N	N	X	6
PZ-20	11/12/21	1720	G	W	3	N	N	X	7
FB (11122021)	11/12/21	1001	G	W	3	N	N	X	8
TB (11122021)	11/12/21	—	G	W	2	N	N	X	9
TB (11112021)	11/11/21	—	G	W	2	N	N	X	10

460-247382 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ______ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ______ Corr'd: ______		Therm ID No.: ______
Relinquished by: [signature]	Company: Arcadis	Date/Time: 11/12/21 1820	Received by: [signature]	Company: Syr	Date/Time: 11-12-21, 1820
Relinquished by: [signature]	Company: Syr 11-12-21	Date/Time: 1900	Received by: [signature]	Company: [illegible]	Date/Time: 11/13/21 [illegible]
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

fedex 6.0/5.5 IR9 AIRS

TestAmerica Edison
777 New Durham Road

Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ Other

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	2 of 2 COCs
Address: 110 W. Fayette St.			Sampler:
City/State/Zip: Syracuse, NY	TAT if different from Below:		For Lab Use Only:
(315) 446-9120 (Phone)	☑ Standard 2 weeks		Walk-in Client:
(FAX)	☐ 1 week		Lab Sampling: Syracuse
Project Name: SMC Maestri Site	☐ 2 days		
Site: Geddes, NY 13209	☐ 1 day		Job / SDG No.: 247382 #225
P O # 30077261			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
FB (11112021)	11/11/21	1005	G	W	3	X						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						1/2						

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Non-Hazard ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Disposal by Lab

Special Instructions/QC Requirements & Comments:

Custody Seals Intact? Yes	Custody Seal No.:			Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID
Relinquished by:	Company: Arcadis	Date/Time: 11/12/21 1820	Received by:	Date/Time: 11-12-21 18:20		
Relinquished by:	Company: Sun 11-12-21	Date/Time: 1902	Received by:	Date/Time: 11/13/21 0025		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Date/Time:		

Form No. CA-C-WI-002 Rev. 4.2

Appendix F

Site Inspection Form

ARCADIS
110 West Fayette Street Suite 300
Syracuse
New York, 13202
Phone: 315 446 9120
Fax: 315 449 0017

Date: 11/11/21
Time: 12:00

Site Inspection Report

Weather	Temperature
Partly Cloudy	High 55 / Low 48

Client	Stauffer Management Company LLC	Project No.	30077261
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	Z. OLeary

Please note any deficiencies, issues, or actions taken at the bottom of the page or on continuation pages

Site Security	Circle one			Comments/Action Required
1. Was gate closed and locked when arriving at site?	(Y)	N	NA	
2. Are there any holes or breaks in the fencing?	Y	(N)	NA	
3. Was the door to the treatment shed locked?	(Y)	N	NA	
4. Is the back gate closed and locked?	(Y)	N	NA	
5. Are there any signs of vandalism or unauthorized entry (odd tire tracks, damage to fence, strange debris [bottles, cans, etc])?	Y	(N)	NA	
5a. If so, explain below and notify SMC and Arcadis immediately				
Wells				
6. Are wells intact?	(Y)	N	NA	
7. Are all wells covered (with lid or cap)? *(except wells noted below)*	(Y)	N	NA	
8. Are all wells locked? *(except wells noted below)*	(Y)	N	NA	
Site Maintenance				
9. Is there any garbage or debris? If so, please remove/discard.	(Y)	N	NA	
10. Is there visible dust?	Y	(N)	NA	
11. Does the grass need to be mowed?	Y	(N)	NA	Recently mowed
12. Do any areas need to be weeded or shrub cleared?	Y	(N)	NA	
13. Are there any bald spots in grassy areas?	Y	(N)	NA	
14. Are the access roads clear?	Y	(N)	NA	Store owner vehicle blocking entrance
15. Do any areas (site roads or access to wells) need to be plowed?	Y	N	(NA)	
16. Are there any sink holes throughout the site?	Y	(N)	NA	
17. Any odors onsite?	Y	(N)	NA	
18. Are site signs still up and visible?	(Y)	N	NA	
Erosion Control				
19. Is silt fence still intact and upright?	(Y)	N	NA	
19a. If areas need repair or erosion control installed, indicate below and contact Abscope for repairs.				
20. Is there any evidence of runoff? (i.e. water flow paths on ground)	Y	(N)	NA	
21. Is there any standing, ponded, or pools of water?	Y	(N)	NA	
22. Are there any signs of runoff at the northeast corner? *(stone area)*	Y	(N)	NA	
23. Is there currently any surface water runoff?	Y	(N)	NA	
23a. If so, describe where, approximate flow, and appearance of water below.				
Treatment System				
24. Are the breakers for the pumps still in the off position?	Y	N	(NA)	
25. Does effluent totalizer on the wall for still read 2846902?	Y	N	(NA)	
25a. If not, contact Arcadis or SMC immediately and check that effluent valve is closed.				
26. Are all critical valves in the closed position?	Y	N	(NA)	
27. Are there any system status alarms on the computer?	Y	N	(NA)	
27a. If so, describe below how they have been handled. *(this does not include well level alarms)*				
28. Are all flow values on computer "zero"?	Y	N	(NA)	
("Flow to sewer," "Tot flow to sewer," "tot daily flow," and "TGAL" for each well should each be "zero")				
28. Check level of sump. Does sump need to be pumped out?	Y	N	(NA)	
29. List water level for each recovery well as shown on computer: (total depth of well is shown in brackets)				
RW-7 [27.5']		RW-5 [24.5']		
RW-2 (not online)		RW-8 [24.5']		
RW-3 [25.3']		RW-6 [21.8']		
30. Are any recovery wells at close to overtopping? (ref total depth above)	Y	N	(NA)	
Upon leaving the site, check the following;				
31. Is the treatment shed locked?	(Y)	N	NA	
32. Were the gates closed and locked after leaving site?	(Y)	N	NA	

Note:

Signature of Inspector: Zoe OLeary

Include General Site Observations and Follow-Up Actions on the Reverse

ARCADIS
110 West Fayette Street Suite 300
Syracuse
New York, 13202
Phone: 315 446 9120
Fax: 315 449 0017

Date:

Time:

Site Inspection Report

Continuation Page(s)

Client	Stauffer Management Company LLC	Project No.	
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	

General Site Observations:

Follow-up: *Indicate actions required, person(s) contacted, and dates for completion*

Signature of Inspector:

Arcadis of New York, Inc.
One Lincoln Center, 110 West Fayette Street, Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com