

Mr. Michael Squire
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Date: November 11, 2022
Our Ref: 30114126
Subject: **2022 Groundwater Sampling & Soil Cover Inspection Report**
NYSEG Waterville Former MGP Site
Waterville, New York

Dear Mr. Squire,

On behalf of NYSEG, Arcadis of New York, Inc. (Arcadis) is pleased to present this annual report summarizing the results of groundwater sampling and soil cover inspection activities conducted in 2022 at the Waterville manufactured gas plant (MGP) site. Relevant background information is provided below, followed by a discussion of the 2022 results and recommendations for the site.

Background

As required by the New York State Department of Environmental Conservation's (NYSDEC's) Record of Decision (ROD) issued in March 2002, NYSEG administered a 5-year post-interim remedial measure (IRM) groundwater and soil cover monitoring program at the Waterville, New York Former MGP site. The 5-year monitoring program consisted of sampling eight monitoring wells for BTEX (benzene, toluene, ethylbenzene, and xylenes) and PAHs (polycyclic aromatic hydrocarbons) on a biannual basis from May 2002 to November 2006. NYSEG submitted an evaluation of the results of this monitoring program to the NYSDEC on May 8, 2007. Based on the NYSDEC's comments on this evaluation, NYSEG agreed (in a letter dated January 4, 2008) to revise the scope of the monitoring to annual sampling of one well (MW98-7D) and continuing with the soil cover inspections annually for an additional 5 years (until 2012). Based on the results of the supplemental 5-year groundwater monitoring program concluding in 2012 and discussions with the NYSDEC, NYSEG agreed to continue sampling groundwater from MW98-7D and conducting the soil cover inspections on an annual basis for an unspecified duration.

2022 Groundwater Sampling Event

Arcadis sampled groundwater from monitoring well MW98-7D and conducted site wide synoptic water-level gauging on July 7, 2022. The location of site monitoring wells and other pertinent site features can be found on Figure 1. Consistent with the previous sampling events, the sampling from MW98-7D was conducted using low-flow purging techniques. The low-flow method consists of slowly purging water from the well at a rate of approximately 100 to 200 milliliters per minute (mL/min) until readings of the following field parameters stabilize: pH, dissolved oxygen, oxidation-reduction potential (ORP), turbidity and conductivity. The table below presents the values for these field parameters at the time of sampling:

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| Well ID | pH (S.U.) | Temperature (°C) | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) |
|---------|-----------|------------------|----------------------|-------------------------|----------|-----------------|
| MW98-7D | 6.57 | 13.71 | 0.530 | 0.61 | -100 | 2.4 |

Notes:

S.U. = Standard Units.
 °C = degrees Celsius.
 mS/cm = milliSiemens per centimeter.
 mg/L = milligrams per liter.
 mV = milliVolts.
 NTU = Nephelometric Turbidity Units.

No problems arose during the groundwater sampling event. The groundwater sampling log and sampling chain-of-custody are provided in Attachment 1. The collected sample was analyzed for BTEX and PAHs by Eurofins of Buffalo, New York in accordance with NYSDEC Analytical Services Protocol (ASP). The laboratory provided Category B deliverables and the data package was validated by Arcadis. The data validation concluded that the laboratory results are useable for their intended purpose. A copy of the Data Usability Summary Report (DUSR) can be provided upon request.

Historical analytical results for MW98-7D are summarized in Table 1 in comparison to NYSDEC Class GA Standards and Guidance Values. Consistent with previous sampling events, groundwater sampled from MW98-7D exceeded the NYSDEC Class GA Standards for all the BTEX compounds. Also consistent with previous events, several PAHs continue to be detected in the sample collected from well MW98-7D; however, only acenaphthene, naphthalene and phenanthrene were detected at concentrations above the NYSDEC Class GA Guidance Value for these compounds. The levels for both BTEX and PAHs were within the range of concentrations detected during the previous sampling rounds. As shown on the time-series graph provided in Attachment 2, dissolved-phase BTEX concentrations have remained relatively stable at MW98-7D since sampling began in 2004; however, there does appear to be an overall slight downward trend in the concentration of dissolved phase PAHs.

2022 Inspection of Soil Cover Area

On July 7, 2022, Arcadis also performed the annual inspection of the soil cover portion of the site, as required by the site’s ROD. Findings of the inspection were generally consistent with those found during previous years. Please refer to the photographic log in Attachment 3 for pictures of relevant features of the soil cover. As observed in previous years, the above-ground pool (Photo # 1) and 5 raised bed vegetable gardens (Photo #2) behind 139 Babbott are still present at the site. However, only the pool and northernmost raised-bed garden appear to be within the footprint of the soil cover. The small decorative garden observed since 2018 east of monitoring well CW91-6 (Photo #3) is also still present and appears to be partially within the footprint of the soil cover. A new barn/garage is being constructed behind 135 Babbott but is located well outside the soil cover footprint to the southeast (Photo #4). No additional disturbances were observed during the 2022 inspection and the soil cover appeared in good condition (Photos #5 & 6).

Summary

The 2022 PAH analytical results for the groundwater sample collected from MW98-7D are slightly lower than the 2021 results and are within the range of concentrations historically detected at this well. Only acenaphthene, naphthalene and phenanthrene were found to exceed Class GA Guidance Values for these compounds. BTEX concentrations also increased slightly in 2022 compared to analytical results from 2021 but remained within the

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range of historical BTEX concentrations observed in groundwater from this well. Consistent with previous years, BTEX concentrations exceeded Class GA Standards for each respective compound. There is a slightly downward overall trend for PAHs when reviewing historical data. Analytical data from the 2023 sampling event will be evaluated to determine if any discernible trends develop but is anticipated to remain relatively stable.

Aside from the disturbances caused by the installation of the above-ground pool and the small northernmost raised-bed vegetable garden observed since 2014, the soil cover appeared to be in good condition with no obvious damage.

The next groundwater sampling and soil cover inspection event is scheduled for the summer of 2023. If you have any questions, please feel free to contact John Ruspantini of NYSEG at 585.484.6787 or me at 315.671.9379.

Sincerely,
Arcadis of New York, Inc.



David A. Cornell
Senior Geologist

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CC. John J. Ruspantini, CHMM, NYSEG
Keith A. White, C.P.G., Arcadis

Enclosures:

- Table 1 – Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values
- Figure 1 – Site Map
- Attachment 1 – Field Notes
- Attachment 2 – MW98-7D Time-Series Graph
- Attachment 3 – Soil Cover Inspection Photograph Log

Table

Table 1
Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values



2022 Groundwater Sampling and Soil Cover Inspection Report
Waterville Former MGP Site
Waterville, New York

| Location ID: Date Collected: | NYSDEC TOGS 1.1.1 Water Standards and Guidance Values | Units | MW98-7D 05/10/05 | MW98-7D 11/10/05 | MW98-7D 05/10/06 | MW98-7D 11/07/06 | MW98-7D 05/01/08 | MW98-7D 05/28/09 | MW98-7D 06/03/11 | MW98-7D 06/14/12 | MW98-7D 06/28/13 |
|---------------------------------------|--|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Detected Volatile Organics | | | | | | | | | | | |
| Benzene | 1 | ug/L | 160 [150] | 90 | 140 [140] | 110 [94] | 140 D [120 D] | 110 D08 [120 D08] | 57 [170] | 90 J | 8.9 |
| Ethylbenzene | 5 | ug/L | 110 [110] | 84 | 97 [93] | 85 [66 J] | 86 [81] | 90 M7 [91] | 36 [150] | 97 J | 6.3 |
| m&p-Xylene | -- | ug/L | NA | NA | NA | NA | 38 [36] | 39 [40] | 20 [62] | 39 | 3.3 |
| o-Xylene | -- | ug/L | NA | NA | NA | NA | 52 [50] | 52 M7 [53] | 26 [77] | 54 J | 4.2 |
| Toluene | 5 | ug/L | 26 [28] | 20 J | 27 [26] | 18 [16 J] | 26 [24] | 22 [23] | 9.0 [34] | 18 | 2.2 |
| Xylenes (total) | 5 | ug/L | 110 [110] | 81 | 95 [91] | 90 [64 J] | NA | 92 M7 [93] | 46 [140] | 93 J | 7.5 |
| Total BTEX | -- | ug/L | 406 [398] | 275 J | 359 [350] | 303 [240 J] | 342 [311] | 314 [327] | 148 [494] | 298 J | 24.9 |
| Detected Semivolatile Organics | | | | | | | | | | | |
| 2-Methylnaphthalene | -- | ug/L | 110 [120] | 140 [140] | 130 [52] | 100 J [82 J] | 110 [97] | 110 M7 [140 D08] | NA | NA | NA |
| Acenaphthene | 20 | ug/L | 110 [110] | 140 [140] | 96 J [92] | 140 [110] | 120 [120] | 120 D08 [140 D08] | 130 [160] | 86 J | 120 D |
| Acenaphthylene | -- | ug/L | 23 J [22 J] | 24 J [23 J] | 19 J [14 J] | 19 J [15 J] | 22 [22] | 19 [25] | 21 J [24 J] | 12 J | 20 |
| Anthracene | 50 | ug/L | 7.0 J [7.2 J] | 11 J [11 J] | 44 J [5.2 J] | 8.7 J [7.6 J] | 8.0 [9.0] | 7.8 [9.6] | 8.5 J [9.6 J] | 6.3 J | 7.7 |
| Dibenzofuran | -- | ug/L | NA | NA | NA | NA | 2.0 J [2.0 J] | 2.3 [2.9] | NA | NA | NA |
| Fluoranthene | 50 | ug/L | 2.6 J [2.3 J] | 100 U [100 U] | 100 U [21 U] | 3.5 J [3.0 J] | 3.0 J [3.0 J] | 2.6 [3.2] | 48 U [48 U] | 49 U | 2.7 J |
| Fluorene | 50 | ug/L | 13 J [13 J] | 100 U [17 J] | 57 J [28] | 14 J [12 J] | 16 [15] | 19 [24] | 20 J [22 J] | 15 J | 18 |
| Naphthalene | 10 | ug/L | 970 [1,000] | 1,200 [1,100] | 910 [360] | 1,300 [930] | 1,100 D [980 D] | 850 D08 [1,100 D08] | 780 [1,000] | 600 | 990 D |
| Phenanthrene | 50 | ug/L | 44 J [42 J] | 54 J [51 J] | 75 J [39] | 51 J [44 J] | 46 [45] | 44 [56] | 59 [69] | 37 J | 49 |
| Pyrene | 50 | ug/L | 2.9 J [3.4 J] | 100 U [100 U] | 100 U [21 U] | 4.1 J [3.1 J] | 4.0 J [4.0 J] | 3.0 [3.7] | 3.3 J [3.7 J] | 49 U | 3.4 J |
| Total PAHs | -- | ug/L | 1,280 J [1,320 J] | 1,570 J [1,480 J] | 1,330 J [590 J] | 1,640 J [1,210 J] | 1,430 J [1,300 J] | 1,180 [1,500] | 1,020 J [1,290 J] | 756 J | 1,210 J |
| Detected Inorganics | | | | | | | | | | | |
| Iron | 300 | ug/L | 859 | 1,200 | 1,180 | 1,130 | NA | NA | NA | NA | NA |
| Manganese | 300 | ug/L | 1,130 | 1,390 | 1,380 | 1,220 | NA | NA | NA | NA | NA |
| Nitrate | -- | ug/L | 100 U | 100 U | 110 | 100 U | NA | NA | NA | NA | NA |
| Sulfate | 250,000 | ug/L | 5,000 U | 5,000 U | 5,000 U | 5,000 U | NA | NA | NA | NA | NA |
| Total Organic Carbon | -- | ug/L | 1,700 | 1,800 | 2,100 | 1,700 | NA | NA | NA | NA | NA |

See Notes on Page 2.

Table 1
Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values



2022 Groundwater Sampling and Soil Cover Inspection Report
Waterville Former MGP Site
Waterville, New York

| Location ID: Date Collected: | NYSDEC TOGS 1.1.1 Water Standards and Guidance Values | Units | MW98-7D 06/20/14 | MW98-7D 07/09/15 | MW98-7D 07/20/16 | MW98-7D 06/15/17 | MW98-7D 06/26/18 | MW98-7D 06/13/19 | MW98-7D 07/15/20 | MW98-7D 07/01/21 | MW98-7D 07/07/22 |
|---------------------------------------|--|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Detected Volatile Organics | | | | | | | | | | | |
| Benzene | 1 | ug/L | 17 | 68 | 39 J | 130 DJ | 48 [49] | 93 [88] | 45 [44] | 49 [48] | 54 [56] |
| Ethylbenzene | 5 | ug/L | 11 | 66 | 48 J | 110 DJ | 47 [47] | 97 J [92] | 68 [66] | 79 [75] | 82 [81] |
| m&p-Xylene | -- | ug/L | 6.9 | 31 | 22 | 48 J | 21 [21] | 38 [35] | 27 [26] | 29 [29] | 35 [33] |
| o-Xylene | -- | ug/L | 10 | 43 | 30 J | 62 J | 29 [28] | 52 [51] | 41 [39] | 41 [40] | 44 [45] |
| Toluene | 5 | ug/L | 3.3 | 15 | 9.7 | 37 J | 11 [11] | 22 [22] | 14 [14] | 16 [15] | 18 [19] |
| Xylenes (total) | 5 | ug/L | 17 | 74 | 52 J | 110 J | 50 [49] | 90 [86] | 68 [65] | 70 [69] | 79 [78] |
| Total BTEX | -- | ug/L | 48.3 | 223 | 149 J | 387 J | 156 [156] | 302 J [288] | 195 [189] | 214 [207] | 233 [234] |
| Detected Semivolatile Organics | | | | | | | | | | | |
| 2-Methylnaphthalene | -- | ug/L | NA |
| Acenaphthene | 20 | ug/L | 61 | 35 J | 100 EJ | 150 EJ | 88 DJ [62] | 86 J [75 J] | 80 J [72 J] | 170 J [180 J] | 120 J [130 J] |
| Acenaphthylene | -- | ug/L | 5.6 | 0.66 J | 18 | 27 | 18 [13] | 9.6 J [8.5 J] | 15 J [15 J] | 25 [25] | 19 [21J] |
| Anthracene | 50 | ug/L | 4.2 | 4.9 J | 7.8 | 9.1 | 6.9 [4.9 J] | 6.3 J [6.0 J] | 7.9 J [5.8 J] | 8.8 [9] | 14U [14 U] |
| Dibenzofuran | -- | ug/L | NA |
| Fluoranthene | 50 | ug/L | 1.7 J | 1.7 J | 2.6 J | 3.1 J | 2.4 J [1.7 J] | 100 UJ [100 U] | 100 U [100 U] | 3.3 J [3.6 J] | 20 U [20 U] |
| Fluorene | 50 | ug/L | 8.5 | 9.7 | 14 | 15 | 9.4 [7.2] | 100 UB [100 UB] | 8.6 J [8.4 J] | 15 [15] | 18 U [18 U] |
| Naphthalene | 10 | ug/L | 1.9 U | 0.86 J | 640 D | 910 D | 440 D [370 D] | 100 U [100 U] | 590 [540] | 630 D [800 D] | 230 D [270 D] |
| Phenanthrene | 50 | ug/L | 23 | 24 | 45 | 58 J | 39 J [29] | 100 UBJ [100 UB] | 27 J [25 J] | 55 J [59 J] | 49 J [51 J] |
| Pyrene | 50 | ug/L | 2.2 | 2.0 J | 2.8 J | 4.0 J | 2.7 J [2.0 J] | 100 UJ [100 U] | 100 U [100 U] | 3.9 J [4 J] | 17 U [17 U] |
| Total PAHs | -- | ug/L | 106 J | 78.8 J | 830 J | 1,180 J | 606 J [490 J] | 102 J [89.5 J] | 729 J [666 J] | 911 J [1096 J] | 418 J [472 J] |
| Detected Inorganics | | | | | | | | | | | |
| Iron | 300 | ug/L | NA |
| Manganese | 300 | ug/L | NA |
| Nitrate | -- | ug/L | NA |
| Sulfate | 250,000 | ug/L | NA |
| Total Organic Carbon | -- | ug/L | NA |

Notes:

D = Compound quantitated using a secondary dilution.

D08 = Compound quantitated using a secondary dilution.

E = Analyte exceeded calibration range.

J = Indicates an estimated value.

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

[] = duplicate sample

NA = Not Analyzed

ug/L = micrograms per liter

Figure

Attachment 1

Field Notes

NYSEG - Waterville

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Josh Sinay Well ID: MW98-7D
 Client / Job Number: NYSEG - Waterville Date: 7/7/22
 Weather: _____ Time In: 1300 Time Out: _____

Well Information

Depth to Water: 6.50 (from MP)
 Total Depth: 18.47 (from MP)
 Length of Water Column: 11.97
 Volume of Water in Well: 1.95
 Three Well Volumes: 5.85

Well Type: Flushmount ~~Stick-Up~~
 Well Material: Stainless Steel PVC
 Well Locked: Yes ~~No~~
 Measuring Point Marked: Yes ~~No~~
 Well Diameter: 1' 2' Other: _____

Purging Information

Purging Method: Bailer Peristaltic Grundfos Other: _____
 Tubing/Bailer Material: St. Steel Polyethylene Teflon Other: LOPE
 Sampling Method: Bailer (VOGs) Peristaltic Grundfos Other: _____

| gal / ft. of water | Conversion Factors | | | |
|---|--------------------|-------|-------|-------|
| | 1" ID | 2" ID | 4" ID | 6" ID |
| | 0.041 | 0.163 | 0.653 | 1.469 |
| 1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet | | | | |

Duration of Pumping: 70 (min)
 Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: Horiba U52
 Total Volume Removed: ~2.5 (gal) Did well go dry: Yes No

| pH | Unit Stability | | |
|-------|----------------|--------|---------|
| | DO | Cond. | ORP |
| ± 0.1 | ± 10% | ± 3.0% | ± 10 mV |

| Time: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1430 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Parameter: <u>gal</u> | 1345 | 1350 | 1355 | 1400 | 1405 | 1410 | 1415 | 1420 | 1425 | 1430 |
| Volume Purged (mL) | 0 | 0.25 | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | SAMPLE |
| Rate (mL/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | |
| Depth to Water (ft.) | 7.14 | 8.66 | 9.45 | 10.09 | 10.45 | 10.75 | 10.99 | 11.00 | 11.00 | |
| pH | 8.25 | 7.58 | 6.91 | 6.77 | 6.68 | 6.63 | 6.59 | 6.57 | 6.57 | |
| Temp. (C) | 24.51 | 18.38 | 15.05 | 14.28 | 13.86 | 13.52 | 13.78 | 13.69 | 13.7 | |
| Conductivity (mS/cm) | 0.214 | 0.367 | 0.362 | 0.396 | 0.444 | 0.473 | 0.499 | 0.526 | 0.530 | |
| (mg/L) Dissolved Oxygen | 1.67 | 0.70 | 0.46 | 0.42 | 0.44 | 0.46 | 0.55 | 0.60 | 0.61 | |
| ORP (mV) | 26 | -52 | -62 | -69 | -80 | -92 | -99 | -99 | -100 | |
| Turbidity (NTU) | 9.2 | 4.8 | 3.4 | 3.5 | 3.3 | 2.6 | 3.0 | 2.3 | 2.4 | |
| Notes: | | | | | | | | | | |

Sampling Information

| Analyses | # | Laboratory |
|---------------------------|--------------------------|------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Sample ID: <u>MW98-7D</u> | Sample Time: <u>1430</u> | |
| MS/MSD: <u>Yes</u> | No | |
| Duplicate: <u>Yes</u> | No | |
| Duplicate ID | Dup. Time: <u>1430</u> | |
| <u>DUP-070722</u> | | |

Problems / Observations

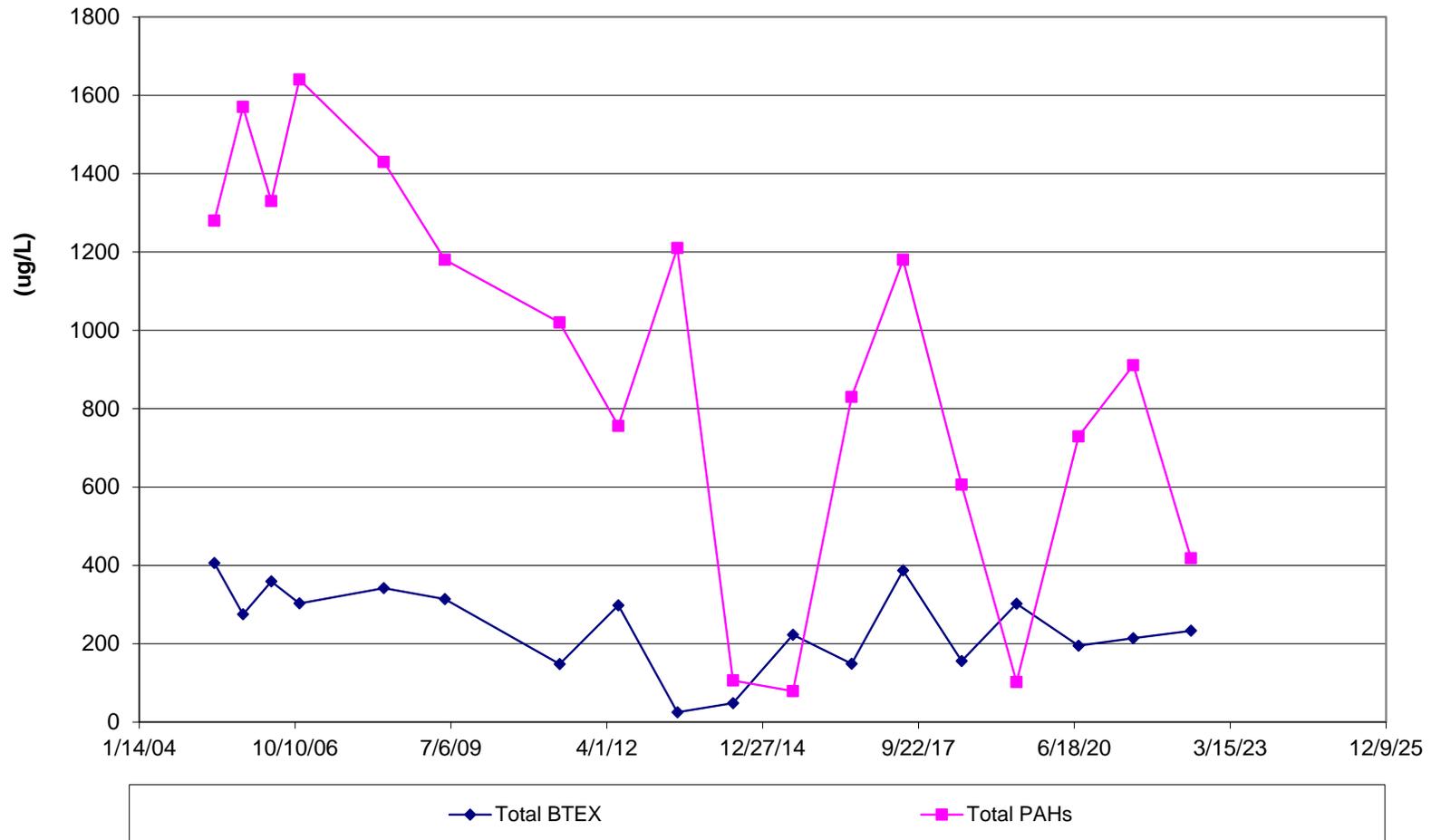
PID = 0.0
 MS/MSD Collected MW98-7D-MS
MW98-7D-MSD
 DUP Collected: DUP-070722

Attachment 2

MW98-7D Time-Series Graph

**TOTAL BTEX & PAH CONCENTRATION OVER TIME
MONITORING WELL - MW98-7D**

**2022 GROUNDWATER SAMPLING & SOIL COVER INSPECTION REPORT
NYSEG
WATERVILLE FORMER MGP SITE
WATERVILLE, NEW YORK**



Attachment 3

Soil Cover Inspection Photograph Log

SOIL COVER INSPECTION PHOTOGRAPH LOG

| | |
|--|--|
| CLIENT: NYSEG | SITE NAME: Waterville Former MGP Site |
| PROJECT#: 30114126 | SITE LOCATION: Waterville, New York |
| PHOTOGRAPH #: 1 |  |
| PHOTOGRAPHER: JES | |
| DATE: 07/7/2022 | |
| DIRECTION: South | |
| COMMENT: View of above-ground swimming pool behind 139 Babbott Avenue property. | |

| | |
|--|--|
| CLIENT: NYSEG | SITE NAME: Waterville Former MGP Site |
| PROJECT#: 30114126 | SITE LOCATION: Waterville, New York |
| PHOTOGRAPH #: 2 |  |
| PHOTOGRAPHER: JES | |
| DATE: 07/7/2022 | |
| DIRECTION: Southwest | |
| COMMENT: View of raised-bed vegetable gardens behind 145 Babbott Avenue property. | |

SOIL COVER INSPECTION PHOTOGRAPH LOG

| | |
|---|---|
| CLIENT: NYSEG | SITE NAME: Waterville Former MGP Site |
| PROJECT#: 30114126 | SITE LOCATION: Waterville, New York |
| PHOTOGRAPH #: 3 |  |
| PHOTOGRAPHER: JES | |
| DATE: 07/7/2022 | |
| DIRECTION: South | |
| COMMENT: View of decorative garden behind 139 Babbott Avenue property. | |

| | |
|--|--|
| CLIENT: NYSEG | SITE NAME: Waterville Former MGP Site |
| PROJECT#: 30114126 | SITE LOCATION: Waterville, New York |
| PHOTOGRAPH #: 4 |  |
| PHOTOGRAPHER: JES | |
| DATE: 07/7/2022 | |
| DIRECTION: East | |
| COMMENT: View of new construction barn/garage at 135 Babbott Avenue property. | |

SOIL COVER INSPECTION PHOTOGRAPH LOG

| | |
|---|--|
| CLIENT: NYSEG | SITE NAME: Waterville Former MGP Site |
| PROJECT#: 30114126 | SITE LOCATION: Waterville, New York |
| PHOTOGRAPH #: 5 | |
| PHOTOGRAPHER: JES | |
| DATE: 07/7/2022 | |
| DIRECTION: South | |
| COMMENT: View of soil cover looking South. | |

| | |
|--|--|
| CLIENT: NYSEG | SITE NAME: Waterville Former MGP Site |
| PROJECT#: 30114126 | SITE LOCATION: Waterville, New York |
| PHOTOGRAPH #: 6 | |
| PHOTOGRAPHER: JES | |
| DATE: 07/7/2022 | |
| DIRECTION: West | |
| COMMENT: View of soil cover looking West. | |