



Washington Station
333 West Washington Street, Suite 300
Syracuse, NY 13202
Telephone: 315-431-4610
www.eaest.com

15 December 2025

Mr. Michael Belveg
Division of Environmental Remediation
New York State Department of Environmental Conservation
5786 Widewaters Parkway
Syracuse, New York 13214

RE: Pilot Study Percolation Test Results – REVISED FINAL
Contract/Work Assignment No: D009806-32
Zip Zip Mini Market, Syracuse, New York
Site No. B00075

Dear Mr. Belveg:

EA Engineering and Geology, P.C. (EA) was tasked by the New York State Department of Environmental Conservation (NYSDEC), under Work Assignment Number (No.) D009806-32 to conduct a pre-design investigation (PDI), pilot study, and remedial design at the Zip Zip Mini Market Site (No. B00075) (Site) in the City of Syracuse, Onondaga County, New York (Figure 1). EA completed the first two tasks of the pilot study outlined in the Pilot Study Work Plan.¹ Baseline groundwater sampling and a percolation test was completed between 29 July and 6 August 2025. The below sections describe field observations and results of the percolation test that affect the planned pilot study described in the Pilot Study Work Plan.¹

Groundwater Sampling

EA collected pre-injection groundwater samples via low flow at the following monitoring wells to establish a baseline for volatile organic compound (VOC) concentrations as well as water quality parameters (i.e., oxidation-reduction potential, dissolved oxygen, etc.): MW-EA-1R, MW-EA-3R, MW-EA-4R, MW-EA-6, MW-EA-9. These five wells are in or around the historic source area as follows:

- MW-EA-3R: Upgradient end of source area and interim remedial measure excavation areas
- MW-EA-1R and MW-EA-4R: Downgradient
- MW-EA-6 and MW-EA-9: Side gradient

Monitoring wells were gauged, purged and sampled in accordance with the Pilot Study Work Plan¹ from 29 to 31 July 2025. Samples were analyzed via U.S. Environmental Protection Agency Method 8260 for VOCs by NYSDEC call-out laboratory, Pace Analytical Laboratories. Table 1 presents a summary of site contaminant of concern (COC) results across site monitoring wells

¹ EA Engineering and Geology, P.C. (EA). 2025. *Pilot Study Work Plan*. February.



from 2023 through 2025. COC concentrations continue to exceed NYSDEC Ambient Water Quality Standards (AWQS)² project cleanup objectives at the site (Figure 2).

- Concentrations of COCs from July 2025 were the highest in MW-EA-1R. Concentrations of 1,2,4-trimethylbenzene, benzene, and ethylbenzene have risen since 2023. Concentrations of other COCs have fluctuated or decreased since 2023.
- An order of magnitude decrease in COC concentrations was observed in MW-EA-6 between 2023 and 2024, with most COCs below AWQS in 2024. In 2025, concentrations have risen, primarily in 1,2,4-trimethylbenzene, benzene, and ethylbenzene.
- All analytes remain below AWQS in MW-EA-3R in MW-EA-9.
- Concentrations of methyl tertiary butyl ether (MTBE) have decreased overtime in MW-EA-4R.

Hydrogeologic Testing

Slug Test

As presented in the Pilot Study Work Plan,¹ EA completed soil borings, soil sampling, and groundwater monitoring well installation and sampling as part of the PDI activities. A falling head slug test was performed to determine the hydraulic conductivity of the subsurface. In MW-EA-1R, the slug displaced approximately 0.792 feet of water, which returned to close to the static water level after approximately 300 seconds for a rate of 0.0025 feet per second or approximately 1.5 gallons per hour. The average hydraulic conductivities calculated from the three wells (MW-EA-1R, MW-EA-4R, and MW-EA-8) using the Bouwer-Rice method ranged from 2.31×10^{-5} to 6.46×10^{-5} centimeters per second, which was consistent with the geologic material observed during drilling activities (silts and clays with some fine sands). Further details and field data from the slug tests are presented in the Pre-Design Investigation Results Summary Memorandum.³

Percolation Test #1

To further evaluate the falling head rate that could be achieved under a gravity fed injection, EA planned to conduct a percolation test in MW-EA-1R. The percolation test was performed by attaching 6-inch section of 2-inch diameter polyvinyl chloride (PVC) riser to the top of the well casing and then fitting a clear 4-inch diameter section of plastic piping graduated every 1 inch. The percolation test conducted on 31 July 2025 was performed by pouring successive 5-gallon buckets of potable water into the well to fill the entire well volume. EA then timed how quickly the water level fell in the 4-inch clear piping. Photographs of the equipment set up are provided in the daily field reports (Attachment 1).

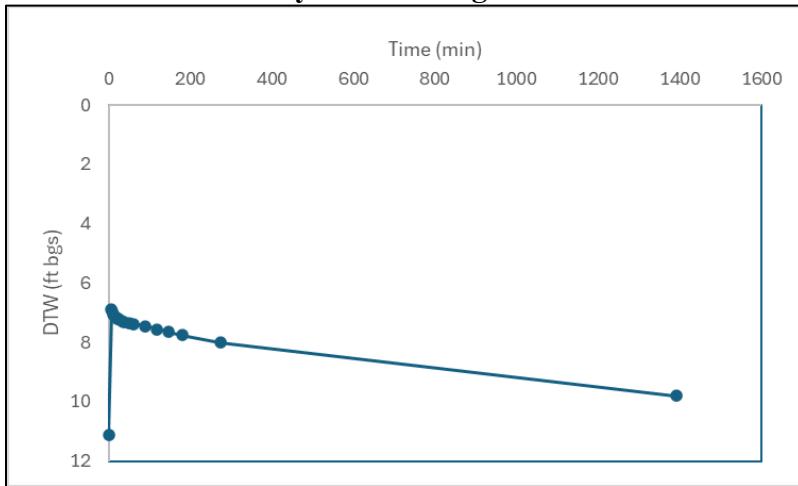
² NYSDEC. 1998. *Division of Water Technical and Operational Guidance Series (1.1.1)*. June.

³ EA. 2024. *Pre-Design Investigation Results Summary*. February.

During the percolation test performed on 31 July 2025, EA added over 30 gallons of water to MW-EA-1R and observed that the water level in the plastic pipe fell approximately 6 inches per 1-2 seconds. This flow rate into the subsurface was much higher than expected based upon the PDI results, particularly the geologic material observed below the water table and the slug test results. EA's measurements collected on 31 July 2025 indicate that the subsurface accepts approximately 587 gallons of water per hour.

After adding 30 gallons of potable water to MW-EA-1R, EA measured depth to water until readings became near asymptotic. Once water level reached approximately 7 feet below ground surface (bgs), the infiltration rate slowed significantly. Exhibit 1 shows depth to water measured before water was added and as the well recovered. Field forms and a calculation sheet are presented in Attachment 1.

Exhibit 1. 31 July 2025 Falling Head Test Results



Notes:

DTW = depth to water

ft bgs = feet below ground surface

min = minutes

After the results of the Percolation Test #1, EA reviewed the boring log and monitoring well construction log from MW-EA-1R. A fine to medium gravel layer was observed from 5 to 7 feet bgs. Clays and silts are the predominant soil type from 7 feet bgs to refusal. MW-EA-1R was installed with well screen from 7 to 17 feet bgs and filter pack extending above the screen to 5 feet bgs, which allows the well to communicate with the more permeable gravel layer from 5 to 7 feet bgs observed in the soil boring.

EA contacted NYSDEC on 1 and 5 August 2025 to discuss results of Percolation Test #1 and proposed next steps. EA and NYSDEC agreed to perform a second percolation test with a higher volume of water.



Percolation Test #2

On 6 August 2025, EA conducted a second percolation test on MW-EA-1R. Using the same 2-inch PVC to graduated 4-inch plastic pipe set up from Percolation Test #1, EA added water to the subsurface using a hydrant connection at a rate of approximately 10 gallons per minute (gal/min). After around 40 seconds of constant 10 gal/min flow (approximately 7 gallons), water level in the well and 4-inch plastic pipe rose. Once water reached the top of the plastic pipe, EA shut off water and again timed the falling hydraulic head. Similar to Percolation Test #1, the falling head observed equated to about 6 inches per 2 seconds (approximately 587 gallons per hour).

EA further tested the percolation rate of subsurface by running 10 gal/min into MW-EA-1R for 1 hour and 40 minutes (1,000 gallons). Water level in the 4-inch plastic pipe stayed consistent, meaning the percolation rate is greater than or equal to 10 gal/min, or 600 gallons per hour.

Pilot Study Implications and Recommendations

In the pilot study, EA planned to test implementation and delivery of an in situ chemical oxidant (ISCO) solution of PersulfOx® in the vicinity of MW-EA-1R. However, the two percolation tests and falling head tests revealed that fluid short circuits through the 5-7 feet bgs gravel lens versus infiltrating in the contaminated silt/clays below 7 feet bgs. The rate of flow in the gravel lens far exceeds the expected 1.5 gallons per hour determined during the PDI slug test; the consequences of which indicate that fluid injected in the subsurface will likely take the path of least resistance and flow through the gravel lens. At this time, the monitoring network at the site is not sufficient to determine where injected fluid is traveling.

EA is concerned with controlling the flow of the oxidizer through the gravel lens beyond the treatment zone in the Pilot Study Work Plan.¹ This means potential distribution outside intended treatment zones, including the utility corridors associated with Erie Boulevard. A conceptual model of the subsurface and utility locations is presented on Figures 3 and 4.

As ISCO products will oxidize metal pipe/conduit, note that EA confirmed the presence of an older cast iron water main with the right-of-way with the City of Syracuse. EA does not recommend proceeding with the ISCO pilot study as outlined in the Pilot Study Work Plan,¹ nor proceeding with ISCO groundwater treatment.

It is EA's suggestion that NYSDEC consider that work performed to date at the site meets the intent of the remedial action objectives (RAOs) presented in the Record of Decision (ROD)⁴ and further remedial injection efforts are not practicable based on the low permeability of the targeted treatment zone. The status of the RAOs for groundwater as presented in the ROD are presented in Exhibit 2.

⁴ NYSDEC. 2020. *Record of Decision; Zip Zip Mini Market Site, Environmental Restoration Project; Syracuse, Onondaga County*. March



Exhibit 2. RAO Status

RAO	Status	Comments
Prevent ingestion of groundwater with contaminated levels exceeding drinking water standards.	No exposure pathway.	Surrounding area is supplied with public water unaffected by site-related contamination.
Prevent contact with, or inhalation of volatiles, from contaminated groundwater.	The property is currently unoccupied with no structures present. There is no exposure to soil vapor via vapor intrusion in the property's current state unless the subsurface is disturbed.	A future Site Management Plan will include institutional controls and engineering controls to address inhalation of volatiles. Although property is currently unoccupied, change in property usage could trigger the need for engineering controls. Vapor intrusion sampling performed at the adjacent warehouse (west of the site) determined no further action was needed as related to human exposure to site-related VOCs.
Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.	It is not practicable to restore aquifer to pre-release conditions.	The percolation test and work performed to date demonstrates that the selected groundwater remedy (ISCO injections) is not practicable. Treatment with other mechanical remedial technologies such as air-sparge/soil vapor extraction or pump/treat are unlikely to succeed given low permeability of subsurface soils. A future Site Management Plan will address potential exposure related to intrusive work due to site development or public works projects. A Site Management Plan will include provisions for soil disturbance, including sampling/handling of generated waste, and protection of workers.
Remove the source of ground or surface water contamination	Completed during prior interim remedial measures.	The source of groundwater contamination was removed in the two interim remedial measures performed in 2005 and 2008. During these efforts, underground storage tanks, subsurface structures, piping, equipment, and contaminated soil were excavated to approximately 18 feet bgs. During the PDI, no staining or free product was observed during soil boring advancement and soil sampling.



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EA recommends continuing with the other site remedies outlined in the ROD (cover system, institutional controls, and Site Management Plan) and transition to site management.

Please feel free to contact me if you have any questions or concerns at 315-565-6553.

Sincerely yours,
EA ENGINEERING AND GEOLOGY, P.C.

A handwritten signature in black ink that reads "Emily Cummings".

Emily Cummings
Project Manager

cc: J. Cook, NYSDEC
E. Rieseler, NYSDOH
O. Kerney, City of Syracuse
D. Conan, EA

Figures

- 1 Site Location
- 2 Groundwater Sample VOC Exceedances July 2025
- 3 Erie Canal Cross Section
- 4 Erie Canal Cross Section Transect

Tables

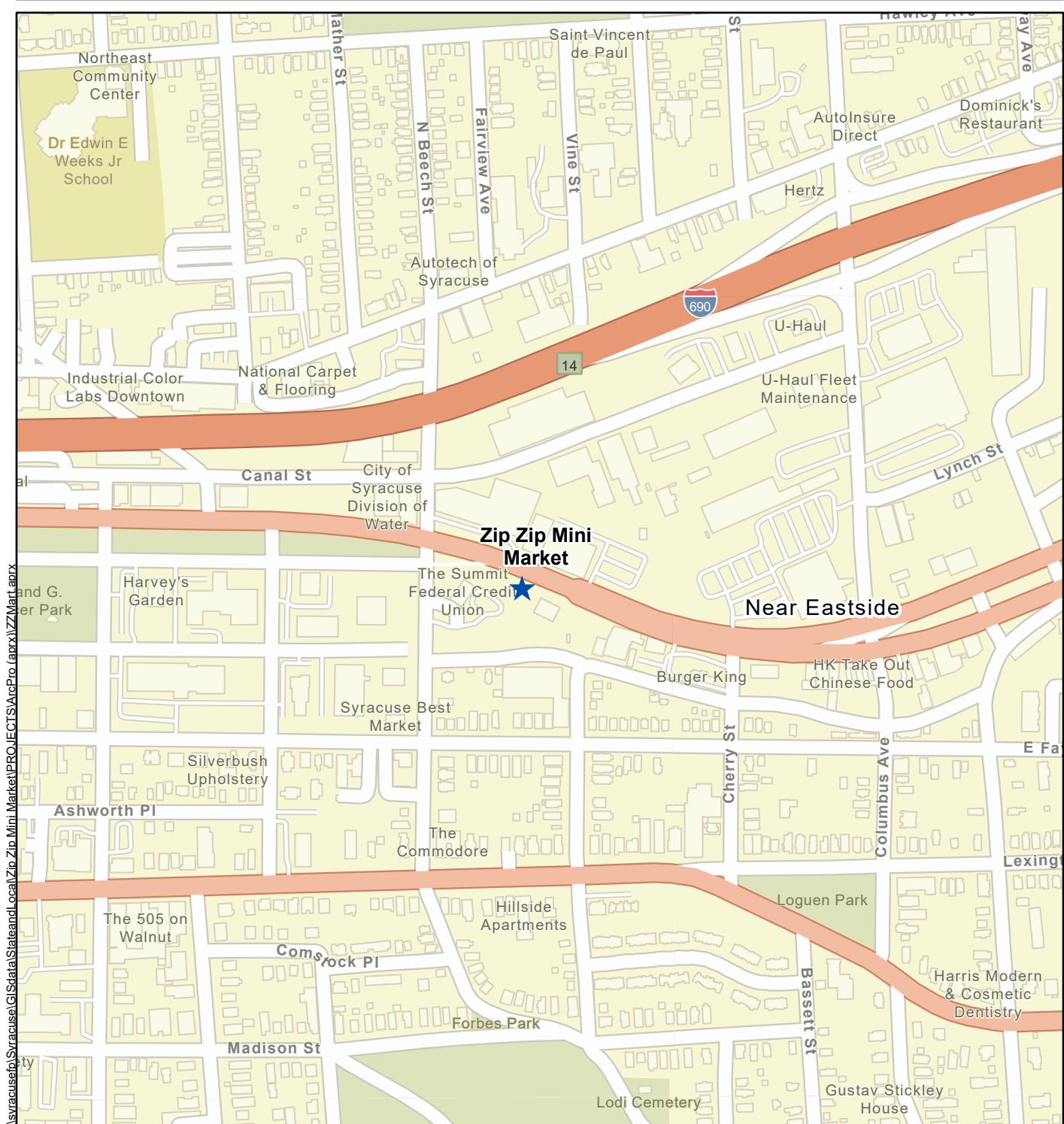
- 1 Groundwater Sampling Results Summary

Attachments

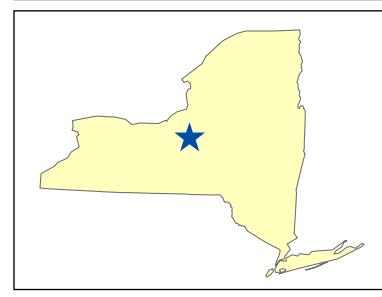
- 1 Field Forms and Calculation Sheet

Figures

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Legend
★ Site Location

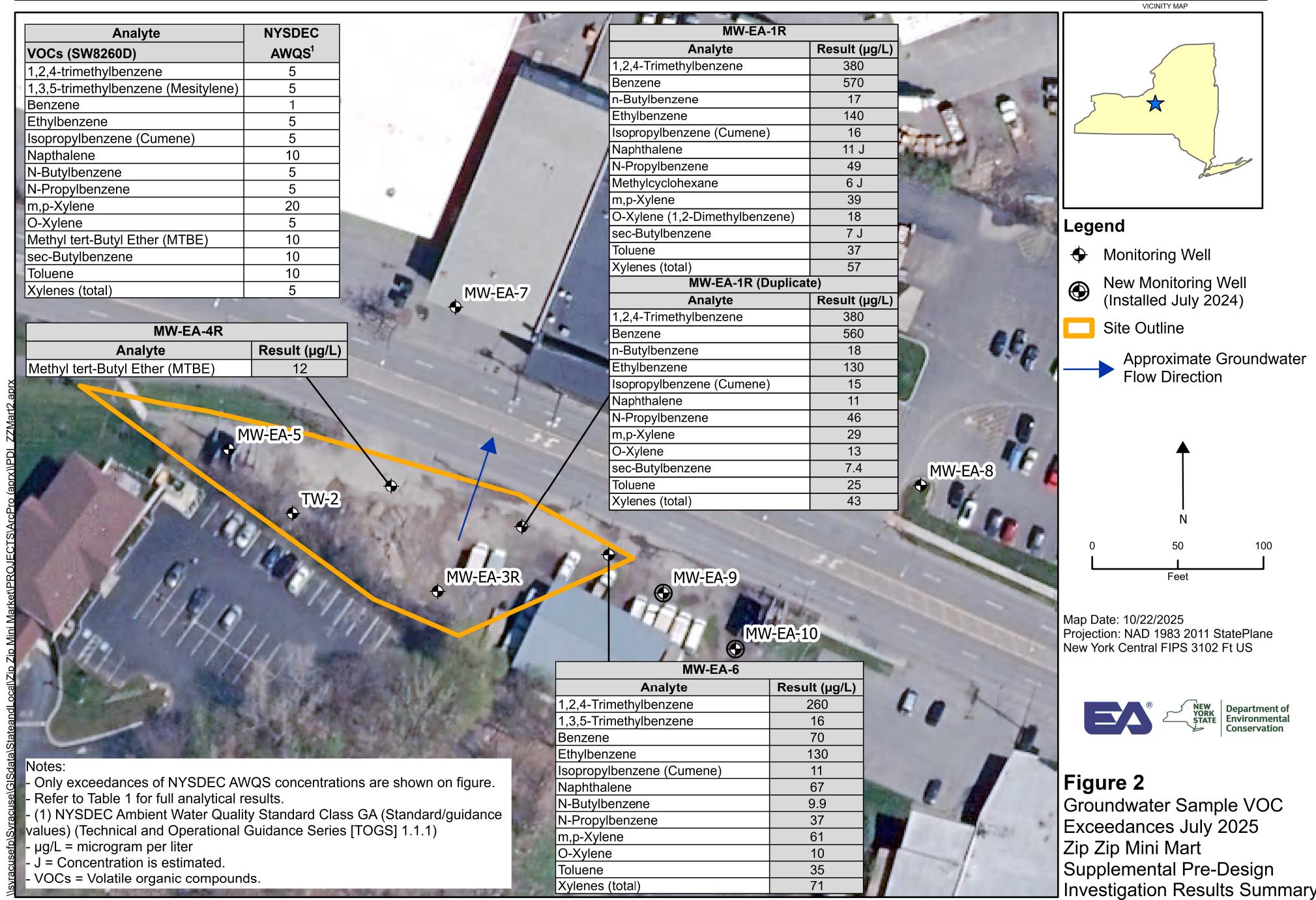


0 250 500
Feet

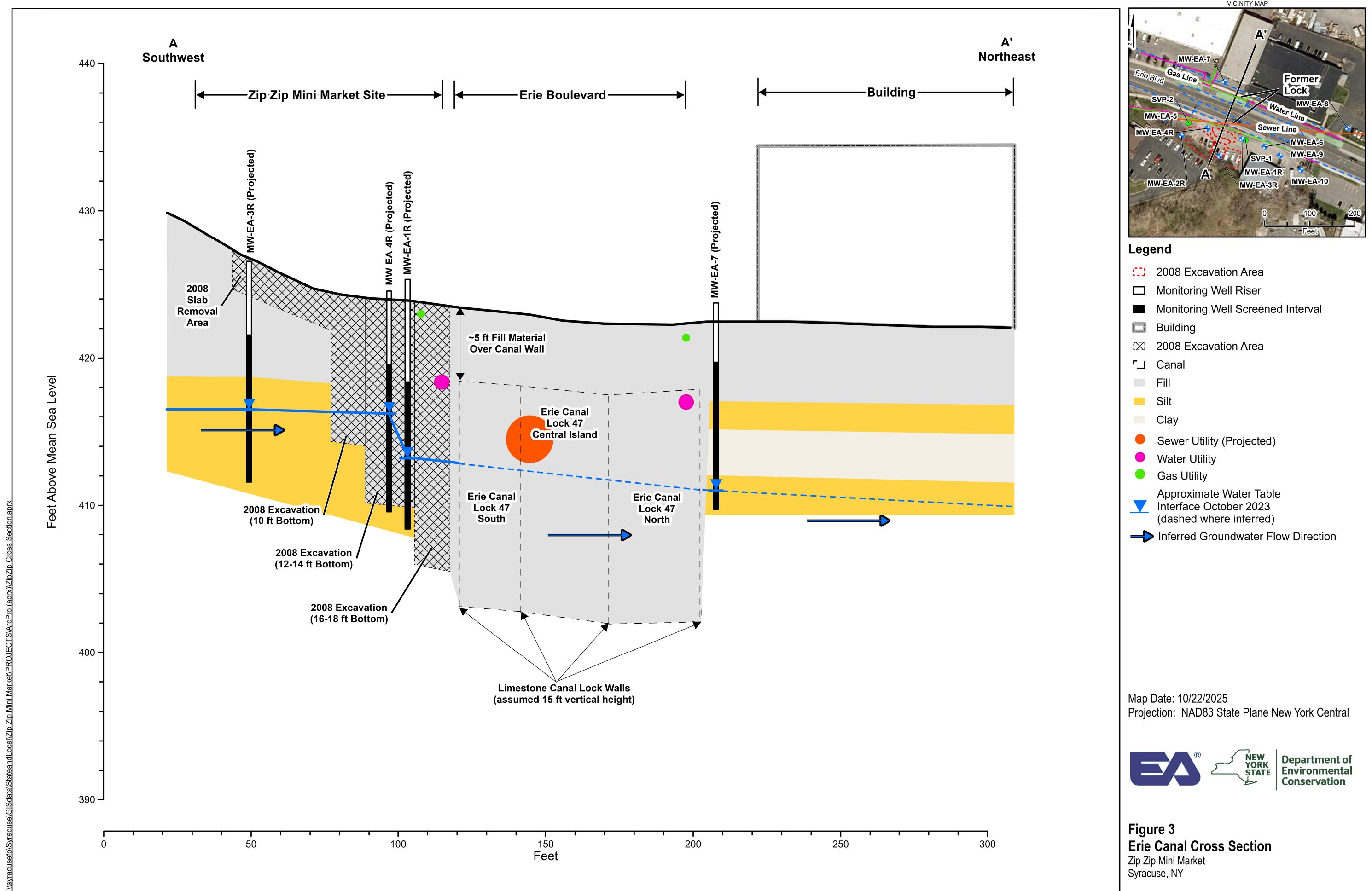
Figure 1
Site Location
Zip Zip Mini Market
(NYSDEC Site No. B00075)
Syracuse, New York

Map Date: 2/7/2025
Projection: NAD 1983 State Plane New York Central FIPS
Source: ESRI, NYS

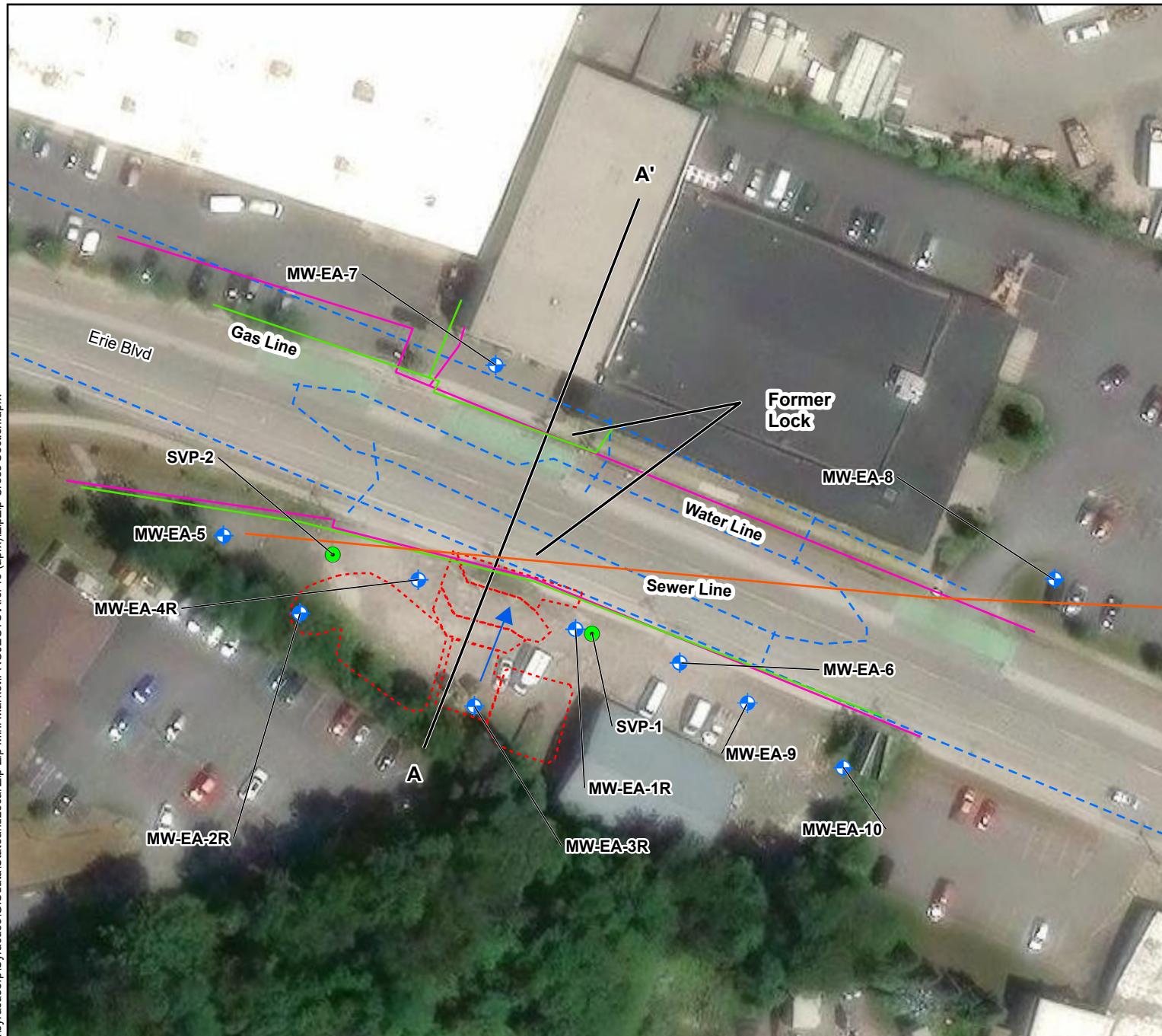
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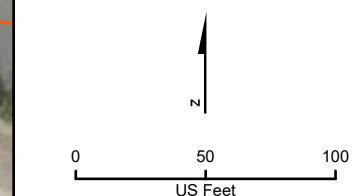


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Legend

- ★ Site Location
- ◆ Monitoring Well
- Soil Vapor Point
- IRM Excavation Areas
- Gas Line
- Sewer Line
- Water Line
- ▲ Approximate Groundwater Flow Direction
- - Historic Erie Canal Path
- Transect



Map Date: 12/9/2025
Projection: NAD83 State Plane New York Central



Department of
Environmental
Conservation



Figure 4
Erie Canal Cross Section
Transect
Zip Zip Mini Mart
(NYSDEC Site No. B00075)
Syracuse, New York

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Tables

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Table 1. Groundwater Sampling Results Summary

Location ID Sample Name Parent Sample Name Sample Date		MW-EA-1R B00075-MW-EA-1R	MW-EA-1R B00075-FD-1 B00075-MW-EA-1R_20230926	MW-EA-1R B00075-MW-EA-1R-082124	MW-EA-1R B00075-MW-FD-01-082124 B00075-MW-EA-1R-20240821	MW-EA-1R B00075-MW-EA-1R-07302025
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result
1,2,4-Trimethylbenzene	5	µg/L	42 J	23 J	160	200
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	24 J	12 J	53	68
2-Butanone (MEK)	50	µg/L	< 1.7 U	< 1.7 U	4.7 J	4.7 J
Benzene	1	µg/L	190	180	50	54
Cyclohexane	NSL	µg/L	NA	NA	6.2	8.3
Cymene	5	µg/L	0.34 J	0.99 J	2	2.7
Ethylbenzene	5	µg/L	40 J	16 J	41 J	57 J
Isopropyl Ether	NSL	µg/L	0.5	0.41 J	NA	NA
Isopropylbenzene (Cumene)	5	µg/L	2.8	1.6	6.5	8.8
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	1.7 J	< 1.3 U	< 10 U	< 10 U
Methylcyclohexane	NSL	µg/L	3.5	3.9	7.6	9.7
M-P-Xylene	5	µg/L	180 J	69 J	100 J	140 J
Naphthalene	10	µg/L	4.1	2.1	12	16
N-Butylbenzene	5	µg/L	1.7	1.1	4.2	5.6
N-Propylbenzene	5	µg/L	4.7	3	18	24
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	140 J	49 J	7.4	9
Sec-Butylbenzene	5	µg/L	0.37 J	0.33 J	2.2	2.8
Tert-Butyl Methyl Ether (MTBE)	10	µg/L	20	20	0.29 J	0.31 J
Toluene	5	µg/L	110 J	33 J	2.7	< 1 U
Xylenes (total)	5	µg/L	NA	NA	110 J	150 J

Notes:

1. NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values)
(Technical and Operational Guidance Series [TOGS] 1.1.1) - Exceedances are in bold.

AWQS = Ambient Water Quality Standard

ID = Identification

J = Concentration is estimated

µg/L = Microgram(s) per liter

NA = Not analyzed

NSL = No screening level available

NYSDEC = New York State Department of Environmental Conservation

U = Analyte not detected

Table 1. Groundwater Sampling Results Summary

Location ID Sample Name Parent Sample Name Sample Date			MW-EA-1R B00075-FD-01-07302025 B00075-MW-EA-1R-07302025 7/30/2025	MW-EA-3R B00075-MW-EA-3R 9/26/2023	MW-EA-3R B00075-MW-EA-3R-07302025 7/30/2025	MW-EA-4R B00075-MW-EA-4R 9/26/2023	MW-EA-4R B00075-MW-EA-4R-082124 8/21/2024
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result
1,2,4-Trimethylbenzene	5	µg/L	380	< 0.2 U	< 0.15 U	< 0.2 U	< 1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.7 J	< 0.15 U	< 0.16 U	< 0.15 U	< 1 U
2-Butanone (MEK)	50	µg/L	20 J	< 1.7 U	< 1.5 U	< 1.7 U	<1.4 U
Benzene	1	µg/L	560	< 0.18 U	< 0.19 U	< 0.18 U	1.6
Cyclohexane	NSL	µg/L	16 J	NA	< 1.3 U	NA	< 5 U
Cymene	5	µg/L	NA	< 0.13 U	NA	< 0.13 U	< 1 U
Ethylbenzene	5	µg/L	130	< 0.22 U	< 0.11 U	< 0.22 U	< 1 U
Isopropyl Ether	NSL	µg/L	NA	< 0.2 U	NA	< 0.2 U	NA
Isopropylbenzene (Cumene)	5	µg/L	15	< 0.15 U	< 0.16 U	< 0.15 U	< 1 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 6.1 U	< 1.3 U	< 1.2 U	< 1.3 U	< 10 U
Methylcyclohexane	NSL	µg/L	5.6	< 0.16 U	< 0.17 U	< 0.16 U	< 1 U
M-P-Xylene	5	µg/L	29	< 0.49 U	< 0.30 U	< 0.49 U	< 2 U
Naphthalene	10	µg/L	11	< 0.38 U	< 0.21 U	< 0.38 U	< 2 U
N-Butylbenzene	5	µg/L	18	< 0.15 U	< 0.14 U	< 0.15 U	< 1 U
N-Propylbenzene	5	µg/L	46	< 0.12 U	< 0.11 U	< 0.12 U	< 1 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	13	< 0.24 U	< 0.16 U	< 0.24 U	< 1 U
Sec-Butylbenzene	5	µg/L	7.4	< 0.13 U	< 0.14 U	< 0.13 U	< 1 U
Tert-Butyl Methyl Ether (MTBE)	10	µg/L	2.6 J	0.78 J	3.3	30	18
Toluene	5	µg/L	25	< 0.22 U	< 0.11 U	< 0.22 U	< 1 U
Xylenes (total)	5	µg/L	43	NA	< 1.0 U	NA	< 1 U

Notes:

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(Technical and Operational Guidance Series [TOGS] 1.1.1) - Exceedances are in bold.

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Table 1. Groundwater Sampling Results Summary

Location ID Sample Name Parent Sample Name Sample Date		MW-EA-4R B00075-MW-EA-4R-07302025	MW-EA-5 B00075-MW-EA-5	MW-EA-6 B00075-MW-EA-6	MW-EA-6 B00075-MW-EA-6-082224	MW-EA-6 B00075-MW-EA-6-07312025
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result
1,2,4-Trimethylbenzene	5	µg/L	< 0.15 U	< 0.2 U	2400	5.3
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	< 0.16 U	< 0.15 U	810	3.8
2-Butanone (MEK)	50	µg/L	< 1.5 U	< 1.7 U	< 67 U	< 1.4 U
Benzene	1	µg/L	< 0.19 U	< 0.18 U	640	0.25 J
Cyclohexane	NSL	µg/L	2.3 J	NA	NA	< 5 U
Cymene	5	µg/L	NA	< 0.13 U	15 J	0.17 J
Ethylbenzene	5	µg/L	< 0.11 U	< 0.22 U	1400	1.2
Isopropyl Ether	NSL	µg/L	NA	< 0.2 U	< 8.1 U	NA
Isopropylbenzene (Cumene)	5	µg/L	0.37 J	< 0.15 U	95	0.27 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 1.2 U	< 1.3 U	< 53 U	2.3 J
Methylcyclohexane	NSL	µg/L	0.79 J	< 0.16 U	110	1.6
M-P-Xylene	5	µg/L	< 0.30 U	< 0.49 U	4300	3.9
Naphthalene	10	µg/L	< 0.21 U	< 0.38 U	750	1.0 J
N-Butylbenzene	5	µg/L	< 0.14 U	< 0.15 U	110	0.39 J
N-Propylbenzene	5	µg/L	< 0.11 U	< 0.12 U	320	0.57 J
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 0.16 U	< 0.24 U	2900	1.5
Sec-Butylbenzene	5	µg/L	0.24 J	< 0.13 U	25 J	< 1 U
Tert-Butyl Methyl Ether (MTBE)	10	µg/L	12	1.2	< 6.8 U	< 1 U
Toluene	5	µg/L	< 0.11 U	< 0.22 U	4500	< 1 U
Xylenes (total)	5	µg/L	< 1 U	NA	NA	5.4
						71

Notes:

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Table 1. Groundwater Sampling Results Summary

Analyte	NYSDEC AWQS ¹	Unit	Location ID Sample Name Parent Sample Name Sample Date	MW-EA-7 B00075-MW-EA-7 10/31/2023	MW-EA-8 B00075-MW-EA-8 9/27/2023	MW-EA-9 B00075-MW-EA-9-082124 8/21/2024	MW-EA-9 B00075-MW-EA-9-07292025 7/29/2025
			Result	Result	Result	Result	Result
1,2,4-Trimethylbenzene	5	µg/L	< 0.2 U	< 0.2 U	< 1 U	< 0.15 U	
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	< 0.15 U	< 0.15 U	< 1 U	< 0.13 U	
2-Butanone (MEK)	50	µg/L	< 1.7 U	< 1.7 U	< 1.4 U	< 1.5 U	
Benzene	1	µg/L	< 0.18 U	< 0.18 U	< 1 U	< 0.19 U	
Cyclohexane	NSL	µg/L	NA	NA	< 5 U	< 1.3 U	
Cymene	5	µg/L	< 0.13 U	< 0.13 U	< 1 U	NA	
Ethylbenzene	5	µg/L	< 0.22 U	< 0.22 U	< 1 U	< 0.11 U	
Isopropyl Ether	NSL	µg/L	< 0.2 U	< 0.2 U	NA	NA	
Isopropylbenzene (Cumene)	5	µg/L	< 0.15 U	< 0.15 U	< 1 U	< 0.16 U	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 1.3 U	< 1.3 U	< 10 U	< 1.2 U	
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 1 U	< 0.17 U	
M-P-Xylene	5	µg/L	< 0.49 U	< 0.49 U	< 2 U	< 0.30 U	
Naphthalene	10	µg/L	< 0.38 U	< 0.38 U	< 2 U	< 0.21 U	
N-Butylbenzene	5	µg/L	< 0.15 U	< 0.15 U	< 1 U	< 0.14 U	
N-Propylbenzene	5	µg/L	< 0.12 U	< 0.12 U	< 1 U	< 0.11 U	
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 0.24 U	< 0.24 U	< 1 U	< 0.16 U	
Sec-Butylbenzene	5	µg/L	< 0.13 U	< 0.13 U	< 1 U	< 0.14 U	
Tert-Butyl Methyl Ether (MTBE)	10	µg/L	< 0.17 U	< 0.17 U	0.52 J	< 0.11 U	
Toluene	5	µg/L	< 0.22 U	< 0.22 U	< 1 U	0.18 J	
Xylenes (total)	5	µg/L	NA	NA	< 1 U	< 1 U	

Notes:

1. NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values)
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Attachment 1
Field Forms and Calculation Sheet

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Zip Zip (B00075)

7-29-25 45

Objective: Biocore Gw Sample

Weather: AM 80°F mostly clouds PM. 89°F ^{partly} cloudy

personnel: T. Robinson, M. Mowers

0835 EA on site

0845 wasp spray applied to nest

0850 Discover MW-EA-3R 1, well buried/covered

0857 PID calibrated

0904 Gassing spot

TR ^{Time} well PID → 07W DTB ⁷

0905 MW-EA-4R 0.0 6.21 13.28

0911 MW-EA-1R 7.3 10.02 16.73

0916 MW-EA-5 0.0 9.74 11.80

0923 MW-EA-6 44.2 2.21 20.57

0930 MW-EA-9 0.0 8.19 17.95

0940 MW-EA-10 0.0 21.66 21.70

0958 MW-EA-3 0.2 4.35 18.85

1009 MW-EA-7 0.0 8.13 13.86

1015 Calibrate Monitor

1040 Purge stat @ MW-EA-9

1135 Sample collected for VVCS soft w/ ms/MSD

B00075-mw-EA-9-07292025

1230 EA offsite for drum probe

1345 EA on site

1400 Purge stat @ MW-EA-4R ^{W/flow timer}

1501 MW-EA-4R purge DRY

1533 EA offsite

Rained in the Rain

4 46 Trip 218

7-30-25

Objective: Baseline Gvr Sampling

Weather: AM 74°F clear. AM 89°F clear

0 personnel: T. Robinson, M. Moore

0 0815 EA onsite PDI: 0.1 Dm: 7.05

0 0825 MW-EA-3R 100' apart Dm: 13.95

0 0830 PDI 7 Hobson cut/baked

0 0900 MW-EA-4R gage PDI: 6.0 Dm: 8.96

Sample collected for VOCs Dm: 13.29

B00075-mw-EA-4R-07302025

0 0925 Purge start @ MW-EA-1R

0 0950 Samples collected for VOCs

B00075-mw-EA-1R-07302025

B00075-FD-01-07302025

0 1015 Purge start @ MW-EA-6

0 1032 MW-EA-6 vent DRY. Stop purge
and allow to recharge.

0 1050 Purge start @ MW-EA-3R

0 1110 Samples collected for VOCs

B00075-mw-EA-3R-07302025

0 1122 EA offsite for Drum pickup

0 1320 EA onsite to drop off drums

0 1330 EA offsite

John P. Moore

7-30-25

7-31-25 47

219 219

Objective: Baseline Gvr Sampling

Weather: AM 69°F Rain

0 personnel: T. Robinson, M. Moore x

0 0819 EA onsite

0 0821 PDI 3 MW-EA-6 located

0 0831 E-Ashton onsite

0 0844 EA-6 gage 3 samples w/ Bore

0 0848 Sample collected for VOCs

B00075-mw-EA-6-07312025

0 0856 E-Ashton onsite

0 0911 Permeation test @ MW-EA-1R

to begin.

0 0935 30 gal of water introduced.

Begin monitoring static water level

0 1036 E-Cummings 3 E-Ashton offsite

1227 Call w/ E. Cummings on rate of return
to static water level. Call off pre test
monitoring

1232 EA offsite

1301 Trap blank collected for VOCs

B00075-FD-01-07312025

1400 EA onsite for water level @ MW-EA-1R

1406 EA offsite

John P. Moore

7-31-25

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION		
DATE:	07-29-2025	
TIME:	10:29:15	
METER ID:	115823	

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	6.29	3.96

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.83	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	11.63	0.0

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 07-30-2025
TIME: 0830
METER ID: 215823

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	6.7	3.99

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	2.97	4.38

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	1.9	0.00

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION

DATE: 7-31-26

TIME: 0821

METER ID: 215823

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.53	3.97

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.03	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	90.9	0.0

COMMENTS

SIGNATURE





CLIENT: New York State Department of Environmental Conservation
PROJECT: Zip Zip Mini Market
NUMBER: 1602532

Page 1 of 1

Prepared By: EGC Date: 08/06/25
Reviewed By: _____ Date: _____

Purpose: Calculate rate of flow in subsurface from falling head test conducted on monitoring well.

Methodology: Convert rate of falling head test from inches per second to gallons per hour

Solution:

1. Volume of water (in gallons) per 0.5 ft of 4-in diameter pipe

D	4.00	inches	Diameter of clear PVC pipe
H	0.50	ft	Height of water falling
t	2.00	sec	Time H of water fell
k	0.65	gal/ft	Gallons liquid per foot of 4" diam. pipe
V		gal	Gallons of water

$$V = k * H \quad \text{gal}$$

V = 0.327 gal

2. Determine rate (gal / hour) of flow

V	0.33	gal	Gallons of water
t	2.00	sec	Time H of water fell
	0.0333	min	
	0.0006	hr	

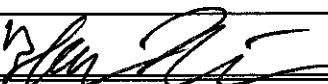
$$Q = V / t \quad \text{gal/hour}$$

Q = 587.7 gal/hour

FIELD CALIBRATION FORM

Site Name:

Z.Y Z.Y

INSTRUMENT: miniRae PIP	INSTRUMENT ID No: 801093
OPERATOR: T. Robinson	WEATHER: 80°F Cloudy
SPAN GAS TYPE: Isobutylene	DATE: 7-29-25
CALIBRATION NOTES:	
Zero = 0 ppm	
Span = 102.3 ppm	
Comments:	
SIGNATURE: 	
DATE: 7-29-25	

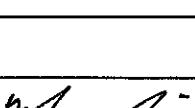
FIELD CALIBRATION FORM

Site Name: Zif Zif

INSTRUMENT: Mini RAE PID	INSTRUMENT ID No: 801093
OPERATOR: T. Rob. Lison	WEATHER: 75°F, clear
SPAN GAS TYPE: Isobutylene	DATE: 7-30-25
CALIBRATION NOTES:	
<i>Zero = 0.0 ppm</i>	
<i>Span = 100.1 ppm</i>	
COMMENTS:	
SIGNATURE: <i>John E.</i>	DATE: 7-30-25

FIELD CALIBRATION FORM

Site Name: Z.P Z.P

INSTRUMENT: minicore FID	INSTRUMENT ID No: 801093
OPERATOR: T. Robinson	WEATHER: 69°F RAY
SPAN GAS TYPE: Zobux	DATE: 7-31-25
CALIBRATION NOTES:	
$Zero = 0.0 \text{ ppm}$	
$Span = 100.1 \text{ ppm}$	
COMMENTS:	
SIGNATURE: 	
DATE: 7-31-25	

DAILY FIELD REPORT**Day: Wednesday Date: 6 August 2025**

Department of
Environmental
Conservation

Project Name: Zip Zip Mini Market

Wind Direction: AM: 5 mph E

PM: 3 mph NE

NYSDEC Site # B00075

Weather: AM: 67; Mostly Cloudy

PM: 81F; Mostly Cloudy

Contract # D009806-32

Arrive at site: 0831 (am)

Location: Syracuse, New York

Leave site: 1120 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan?
(If yes, list the deviation under items for concern)

Yes () No (x)

Are monitoring results at acceptable levels?

Soil	Yes ()	n/a (x)	* No ()
Waters	Yes ()	n/a (x)	* No ()
Air	Yes (x)	n/a ()	* No ()

OTHER ITEMS:

- If No, provide comments

Site Sketch Attached: Yes () No (x)

Photos Taken: Yes (x) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

(0830) D. Conan, E. Cummings and T. Robinson onsite to conduct the second percolation test. Gauge MW-EA-1R (10.99 ft bTOC) and set up hose and hydrant.

(0858) Gauge MW-EA-3R (7.58 ft bTOC)

(0902) Start percolation test at MW-EA-1R with hose flowing at rate of 10 GPM. Approximately 7 gallons of water were introduced and water began backing up in 4-inch pipe. EA measured falling head in pipe as 6-inches every 2 seconds.

(0912) EA gauged MW-EA-4R (6.47 ft bTOC) and MW-EA-6 (7.64 b TOC) and started constant flow of water into MW-EA-1R at 10 GPM at about 09:07 AM

(1007) D. Conan offsite. After about 1 hour of constant flow, water began backing up ~ 6 inch in 4-inch riser. Level stayed pretty consistent thereafter. Ground accepting >= 10 GPM.

(1049) Stopped pumping into MW-EA-1R after about 1000 gallons. Started falling head test at MW-EA-1R

Time Elapsed (min)	Depth to Water (ft BTOC)	Time Elapsed (min)	Depth to Water (ft BTOC)
0:00	5.02	7:00	6.98
0:30	5.60	7:30	6.98
1:00	5.91	8:00	6.99
1:30	6.21	8:30	7.00
2:00	6.40	9:00	7.01
2:30	6.55	9:30	7.01
3:00	6.65	10:00	7.03
3:30	6.75	10:30	7.05
4:00	6.79	11:00	7.06
4:30	6.85	11:30	7.06
5:00	6.90	12:00	7.07
5:30	6.90	17:00	7.15
6:00	6.92	25:00	7.20

DAILY FIELD REPORT

Day: Wednesday Date: 6 August 2025

(1109) Gauged other onsite wells:
MW-EA-6 = 7.61 ft bTOC
MW-EA-3R = 7.57 ft bTOC
MW-EA-4R = 6.36 ft bTOC
(1120) EA offsite.

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: T. Robinson, E. Cummings, D. Conan

Subcontractor personnel: N/A

NYSDEC personnel: None

EA equipment: Water Level Meter, tools.

Subcontractor Equipment:

VISITORS TO SITE:

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: Emily Cummings

cc: Michael Belveg, NYSDEC

Site Photographs (Descriptions Below)	
 A photograph showing a vertical metal pipe standing upright in a hole in the ground. The pipe is surrounded by a red circle on the ground. To the left of the pipe, there is a red bucket and some tools. The ground is gravel.	Percolation test apparatus
 A photograph showing a vertical metal pipe standing upright in a hole in the ground. A green hose is connected to the top of the pipe. The pipe is surrounded by a red circle on the ground. The ground is gravel, and there is a street and buildings in the background.	Percolation test with constant 10 GPM flow
Site Inspector(s): Emily Cummings	Date: 8/06/2025



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Zip Zip mini mart	Project No: B00025	Page 4 of 1
Well ID	MLW-EA-1R	Date 7-30-25	Time 094
Well Site Description	west corner of DBR Wash		
Weather/Temp	80°F clear		
Field Technician	T. Robinson		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	7R 16.73 425.39	Screened Interval (ft bgs)	7-17
Well Diameter (in.)	7	Nominal Borehole Diameter (in.)	6

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	16.73	Gallons per foot of depth	0.43
Depth to product (ft)		Static water level (ft)	W.05
Product column height (ft)	N/A	Water column height (ft)	6.63
Product volume (Gallons)		Water volume (Gallons)	1.09

PURGE INFORMATION

Pump Type / ID	peristaltic / 20857	Water Quality Meter Type / ID	Horiba / 215823
Pump Intake Depth (ft)	11.73	Flow-Thru Cell Volume (L)	1
Purge Start Time	0930	Appearance/Odor (Start)	Clear, odorless, colorless
Purge End Time	0950	Appearance/Odor (End)	Clear, odorless, colorless
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	2.15
Well Went Dry (Y/N)	✓	Stop Time	NA
Recovery Time	NA	Recovery Rate (mL/min)	NA
Total Volume Removed (L)	6.75	Total Pump Time (min)	25

COMMENTS

SAMPLE COLLECTION

Sample Date	7-30-2025	Sample Time	0950
Sample ID	B00075 - MW - EA - IR - 0730 2025		
QA/QC Collected / ID	FD	Sample Appearance/Odor	Clear, colorless, odorless
Analyses	VOCs		
Sampler	TR, MM	Signature	



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Zipp Zipp mini mat	Project No:	Boww75	Page 1 of 1
Well ID	MW-6A-3R	Date	7-30-25	Time 1048
Well Site Description	near trees but on property			
Weather/Temp	89°F Cle			
Field Technician	T. Robertson			

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	425.43	Screened Interval (ft bgs)	515
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	6

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	13.95	Gallons per foot of depth	0.183
Depth to product (ft)		Static water level (ft)	7.20
Product column height (ft)	NA	Water column height (ft)	6.75
Product volume (Gallons)		Water volume (Gallons)	1.10

PURGE INFORMATION

Pump Type / ID	Submersible	Water Quality Meter Type / ID	Fluoride / 215823
Pump Intake Depth (ft)	8.95	Flow-Thru Cell Volume (L)	1
Purge Start Time	1050	Appearance/Odor (Start)	Clear, colorless, odorless
Purge End Time	1110	Appearance/Odor (End)	Clear, colorless, odorless
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	1.35
Well Went Dry (Y/N)	✓	Stop Time	NA
Recovery Time	NA	Recovery Rate (mL/min)	NA
Total Volume Removed (L)	5.00	Total Pump Time (min)	20

COMMENTS

SAMPLE COLLECTION

Sample Date	7-30-2025	Sample Time	110
Sample ID	B60075-MW-EA-3Q-07302025	QA/QC Collected / ID	N/A
Analyses	VOCs	Sample Appearance/Odor	Clear, colorless, odorless
Sampler	TR, MM	Signature	



WELL PURGING AND SAMPLING RECORD

Site Name/Location	ZY 2.8 min mark	Project No: BU0075	Page 1 of 2
Well ID	MW-EA4R	Date 7-29-2025	Time 1353
Well Site Description	western edge of lot		
Weather/Temp	89°F 84°F 84°F		
Field Technician	T. Robinson		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	425.52	Screened Interval (ft bgs)	5-15
Well Diameter (in.)	2"	Nominal Borehole Diameter (in.)	6"

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	13.28	Gallons per foot of depth	0.163
Depth to product (ft)		Static water level (ft)	6.99
Product column height (ft)	N/A	Water column height (ft)	6.99
Product volume (Gallons)		Water volume (Gallons)	1.14

PURGE INFORMATION

Pump Type / ID	Peristaltic / 10857	Water Quality Meter Type / ID	Hurion 1215823
Pump Intake Depth (ft)	8.28	Flow-Thru Cell Volume (L)	1
Purge Start Time	1400	Appearance/Odor (Start)	Colorless, odorous, clear
Purge End Time	1501	Appearance/Odor (End)	Colorless, odorous, clear
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	5.11
Well Went Dry (Y/N)	Y	Stop Time	1501
Recovery Time	17.95 hrs	Recovery Rate (mL/min)	1.3
Total Volume Removed (L)	15	Total Pump Time (min)	61

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
07-29-25	1400	250	0	7.46	3.08	23.93	-72	76.7	0.48	6.65
	1405		1.25	7.27	2.87	23.45	-65	72.3	0.25	6.96
	1410		250	7.25	2.83	22.32	-74	79.2	0.10	7.42
	1415		3.75	7.26	2.94	23.06	-93	83.1	0.04	7.80
	1420		5.00	7.23	3.10	22.95	-96	81.7	0.00	8.20
	1425		6.25	7.29	3.19	22.79	-89	72.3	0.00	8.60
	1430		7.50	7.29	3.24	22.50	-77	63.1	0.00	8.94
	1435		8.75	7.29	3.27	22.29	-74	55.7	0.00	9.35
	1440		10.00	7.28	3.25	22.00	-76	54.5	0.00	9.70
	1445		11.25	7.28	3.21	21.44	-79	49.3	0.00	10.10
	1450		12.50	7.28	3.17	21.32	-84	47.0	0.00	10.45

COMMENTS _____

SAMPLE COLLECTION

Sample Date	7-30-25	Sample Time	0900
Sample ID	BU0075-MW-EA-4R-07302025		
QA/QC Collected / ID	NA	Sample Appearance/Odor	Colorless, odorous, clear
Analyses	VOLs		
Sampler	T. Robinson		
	Signature		

6.1 PFD

8. ab rechst



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Project No:	Page <u>2</u> of <u>2</u>
Well ID <u>MW-EA-4R</u>	Date	Time
Well Site Description		
Weather/Temp		
Field Technician <u>See Pg. 1</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.)	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

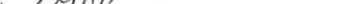
Well Depth (gauge after sampling) (ft)	Gallons per foot of depth
Depth to product (ft)	Static water level (ft)
Product column height (ft)	Water column height (ft)
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID	Water Quality Meter Type / ID		
Pump Intake Depth (ft)	Flow-Thru Cell Volume (L)		
Purge Start Time	Appearance/Odor (Start)		
Purge End Time	Appearance/Odor (End)		
Average Purge Rate (mL/min)	Total Drawdown (ft)		
Well Went Dry (Y/N) <input checked="" type="checkbox"/>	Stop Time <u>1501</u>	Volume removed (L)	
Recovery Time	Recovery Rate (mL/min)	Restart Purge Time	
Total Volume Removed (L)	Total Pump Time (min)		

COMMENTS

SAMPLE COLLECTION

Sample Date	7-30-25	Sample Time	0900
Sample ID	B00075-mw-EA-4R-07302025		
QA/QC Collected / ID	NA	Sample Appearance/Odor	clear, colorless, odorless
Analyses	VOLs		
Sampler	T. Robinson	Signature	



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Zip Zip Mini Mart	Project No:	800075	Page 1 of 1
Well ID	MW-EA-6	Date	7-30-25	Time 1010
Well Site Description	In front of DBR warehouse			
Weather/Temp	85°F	Clear		
Field Technician	T. Robinson			

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	425.93	Screened Interval (ft bgs)	5-12
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	6

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	10.57	Gallons per foot of depth	6.163
Depth to product (ft)		Static water level (ft)	7.21
Product column height (ft)	NA	Water column height (ft)	3.36
Product volume (Gallons)		Water volume (Gallons)	0.55

PURGE INFORMATION

Pump Type / ID	Pump Type / ID	Peristaltic / 20357	Water Quality Meter Type / ID	Horiba / 215823	
Pump Intake Depth (ft)	5.57	→ stepped to 3.57	Flow-Thru Cell Volume (L)	1	
Purge Start Time	1015		Appearance/Odor (Start)	Cloudy, colorless, odorous	
Purge End Time	1032		Appearance/Odor (End)	Cloudy, colorless, odorous	
Average Purge Rate (mL/min)	250		Total Drawdown (ft)	1.79	
Well Went Dry (Y/N)	Y	Stop Time	1032	Volume removed (L)	4.25
Recovery Time	1338 min	Recovery Rate (mL/min)	0.73	Restart Purge Time	Boiler
Total Volume Removed (L)	4.25	Total Pump Time (min)	17		

7.33

COMMENTS _____

SAMPLE COLLECTION

Sample Date	7-31-25	Sample Time	0848
Sample ID	B00025-MW-EA-6-07312025		
QA/QC Collected / ID	NA	Sample Appearance/Odor	Cloudy, gassy, odorous
Analyses	VOCS		
Sampler	T. Roberson	Signature	

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WELL PURGING AND SAMPLING RECORD

Site Name/Location	7-19-21	Project No:	100025	Page 1 of 1
Well ID	MW-EA-9	Date	7-29-25	Time 1038
Well Site Description	In front of DBR			
Weather/Temp	86°F slightly cloudy			
Field Technician	T. Robinson M. Moorex			

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	426.08	Screened Interval (ft bgs)	8-18
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	6

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	17.95	Gallons per foot of depth	0.163
Depth to product (ft)	NA	Static water level (ft)	8.20
Product column height (ft)	NA	Water column height (ft)	9.75
Product volume (Gallons)	NA	Water volume (Gallons)	1.59

PURGE INFORMATION

Pump Type / ID	Peristaltic / 20857	Water Quality Meter Type / ID	HORIBA / 215823
Pump Intake Depth (ft)	12.95	Flow-Thru Cell Volume (L)	1
Purge Start Time	1040	Appearance/Odor (Start)	Cloudy, Grey, turbid
Purge End Time	1135	Appearance/Odor (End)	Clear, colorless
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	3.75
Well Went Dry (Y/N)	N	Volume removed (L)	NA
Recovery Time	NA	Restart Purge Time	NA
Total Volume Removed (L)	13.75	Total Pump Time (min)	55

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
7-29-25	1040	0.250	0	7.05	3.57	20.10	-57	568	3.62	8.62
	1045	1.25	0.25	7.21	3.44	19.70	-94	475	3.26	9.60
	1050	2.00	0.5	7.30	3.39	19.88	-91	410	3.32	9.02
	1055	3.75	0.75	7.31	3.32	19.81	-85	446	3.53	9.3
	1100	5.00	7.30	3.29	19.87	-79	436	3.62	9.6	
	1105	6.25	7.15	2.87	19.73	-88	19.7	0.3	10.1	
	1110	7.50	7.17	2.99	19.97	-100	8.3	0.08	10.36	
	1115	8.75	7.21	3.11	20.14	-110	5.3	0.03	10.60	
	1120	10.00	7.29	3.21	19.87	-118	5.1	0.00	10.95	
	1125	11.25	7.27	3.32	19.78	-125	4.9	0.00	11.28	
	1130	12.50	7.28	3.35	19.81	-127	4.7	0.00	11.55	
	1135		13.75	7.29	3.39	19.79	-130	4.6	0.00	11.95

COMMENTS

SAMPLE COLLECTION

Sample Date	7-29-2025	Sample Time	1135
Sample ID	B00025-MW-EA-9-07292025		
QA/QC Collected / ID	MS/MSD	Sample Appearance/Odor	Clear, colorless, colorless
Analyses	NOx		
Sampler	TR, mm	Signature	John MM