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1 November 2024

TECHNICAL MEMORANDUM

TO: Michael Belveg, NYSDEC Project Manager

FROM: Emily Cummings, EA Project Manager

SUBJECT: Supplemental Pre-Design Investigation Results
Contract/Work Assignment No. D009806-32
Zip Zip Mini Market, Syracuse, New York
Site No. B00075
EA Project No. 1602532

1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (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**). This memorandum provides details for field activities that were conducted between July 2024 and September 2024 as part of a Supplemental PDI at the site.

The first phase of the PDI was conducted in Fall 2023. The results from which suggested that the volatile organic compounds (VOCs) groundwater plume was not fully delineated to the east and was in proximity to an occupied building, which represents a possible vapor intrusion risk. Therefore, supplemental investigative work was proposed as outlined in the PDI Letter Work Plan Addendum (EA 2024a). Work was performed to further delineate impacts in groundwater and determine soil vapor concentration within the vadose zone of the site where impacted groundwater exists. Further evaluation of the indoor air of the adjacent building was not performed as part of this recent field effort and will be performed in the November to December 2024 time frame to coincide with the heating season in compliance with New York State Department of Health Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

Field activities were completed in accordance with the Pre-Design Investigation Letter Work Plan Addendum (EA 2024a), EA's Generic Field Activities Plan (EA 2023a), EA's Site-Specific Health and Safety Plan (EA 2023b), EA's Generic Health and Safety Plan (EA 2024b), and EA's Generic Quality Assurance Project Plan (EA 2020). These plans have been submitted to the Division of Environmental Remediation and are available upon request. Additional specific tasks and any deviations are described in the following sections.

2. SUPPLEMENTAL PRE-DESIGN INVESTIGATION ACTIVITIES

2.1 GROUND-PENETRATING RADAR SURVEY AND UTILITY CLEARANCE

A ground-penetrating radar survey, as well as utility clearance activities, was completed during the original PDI field activities in September 2023, and the results of this survey were used to clear drilling locations of utilities for this phase of the work. Prior to the start of drilling activities, the drilling subcontractor, Parratt-Wolff, Inc. (PWI) contacted UDig New York to locate and mark any underground public utilities. PWI was provided with copies of the ground-penetrating radar survey report to assist in the subsurface utility clearance.

2.2 SOIL BORINGS

PWI hand-cleared two soil boring locations (SB-EA-9 and SB-EA-10) to 5 feet below ground surface (bgs) and confirmed that no utility interferences existed at either location. After the boreholes were hand-cleared, SB-9 was advanced to 18.5 ft bgs, while SB-10 was advanced to 22.7 ft bgs using a truck-mounted drilling rig. Boreholes were completed via hollow stem augers and continuous split-spoon sampling techniques following American Society for Testing and Materials International D1586. No soil samples were collected for chemical analysis as no gross contamination was observed. Soil boring logs are included as **Attachment A**.

2.3 MONITORING WELL INSTALLATION

The two soil boring locations were converted to permanent, 2-inch diameter monitoring wells (MW-EA-9 and MW-EA-10) on 11–12 July 2024. MW-EA-9 was constructed of eight feet of 2-inch internal diameter Schedule 40 polyvinyl chloride casing with a 10-foot long, #10-slot Schedule 40 polyvinyl chloride screen. MW-EA-10 was constructed of seven feet of 2-inch internal diameter Schedule 40 polyvinyl chloride casing with a 15-foot long, #10-slot Schedule 40 polyvinyl chloride screen. The annulus around the outside of the screen was backfilled with sand (#0 US Silica or equivalent) extending 2 feet above the screen. A 3-foot bentonite seal was installed above the sand pack at all wells. The remaining borehole annulus was tremie grouted with a bentonite/cement grout mixture to grade. Each well was completed with a 2-foot by 2-foot concrete pad and curb box with a minimum diameter of 6-inches. Well construction diagrams are included in **Attachment A** and well locations are provided on **Figure 2.**

2.4 MONITORING WELL DEVELOPMENT AND REDEVELOPMENT

Well development has been conducted at MW-EA-9 in accordance with the Field Activities Plan and PDI Investigation Letter Work Plan but could not be performed at MW-EA-10. MW-EA-10 was gauged on several occasions between 16 July 2024 and 21 August 2024 but has not produced sufficient groundwater for development.

Well development of MW-EA-9 began on 17 July 2024 and concluded on 7 August 2024 using surge and pump techniques. On 17 July 2024, MW-EA-9 was purged with a submersible pump, which went dry after approximately one well volume. EA returned to the site on 7 August 2024 to continue development of MW-EA-9 after it had recharged. Development was continued using

surge and pump techniques, purging with a bailer. Four well volumes were successfully removed on 7 August 2024 before the well went dry. Water depths, flow rates, and water quality parameters (pH, specific conductance, temperature, oxidation-reduction potential, dissolved oxygen, total dissolved solids, and turbidity) were monitored throughout the development process and are documented on the well development logs provided in **Attachment A**. The recharge rate of the well was slow and could not keep up with the rate of purging; therefore, stabilization of field parameters could not be achieved.

Development water was containerized, handled, and disposed of as detailed in Section 3.2.13 of the Generic Health and Safety Plan (EA 2024b).

2.5 GROUNDWATER SAMPLING

On 21 August 2024, groundwater samples were collected from one of the newly installed wells (MW-EA-9) and MW-EA-1R, MW-EA-4R, and MW-EA-6 (four wells total) using low-flow sampling techniques. MW-EA-10 was again dry and did not have adequate volume to conduct sampling during the August 2024 sampling event. Static water levels and well depths were gauged in all site wells before purging and are provided in **Table 1**. Gauging logs as well as purge forms with all water quality parameters and sampling information for each well are included in **Attachment A**. Samples were collected in laboratory-provided sample containers for analysis of VOCs by U.S. Environmental Protection Agency Method 8260D. A field duplicate as well as a matrix spike and matrix spike duplicate were collected for each analyte. Groundwater samples were analyzed by NYSDEC Call-out Laboratory, Con-Test.

2.6 SOIL VAPOR POINT SAMPLING

On 21–22 August 2024, soil vapor point (SVP) sampling was performed. Both SVP-1 and SVP-2 (**Figure 2**) were found to have perched water within the sampling screen. EA purged water from these two points on 21 August 2022. Several attempts were made for several hours on 21–22 August 2024 to purge the water from SVP-2; however, these attempts were unsuccessful and no sample was collected from this location.

On 22 August 2024, a SVP sample was collected from SVP-1 using a laboratory-supplied 6-liter Summa® canister regulated for a 2-hour collection period. One canister set to collect a sample over a 2-hour period was connected to SVP-1 and the initial canister vacuum pressure was recorded as -28 inches of mercury. After 2 hours had elapsed, EA observed that the canister vacuum had not decreased from the initial reading. It was suspected that the regulator and/or components of the sampling train were not operating properly. While troubleshooting the Summa® canister sampling train, EA noted that droplets of water were present in both the intake tubing and regulator fittings. In response, EA attempted to purge SVP-1 further with both a peristaltic pump and hand pump; however, no additional water was extracted.

EA made a second attempt to collect a sample from SVP-1 using a new canister and regulator. A moisture filter was added to the sample train to collect excess moisture that was present in the sample tubing to prevent damage to the sampling system. Sample collection with the second canister was successful, and the sample was analyzed for VOCs via U.S. Environmental

Protection Agency Method TO-15 by NYSDEC Cal-Out Laboratory, Con-Test. It should be noted that no duplicate was collected. Field forms associated with the soil vapor sampling log are provided in **Attachment A**.

2.7 DECONTAMINATION PROCEDURES AND INVESTIGATION-DERIVED WASTE

Non-dedicated drilling equipment and tools were decontaminated prior to field activities and between drilling locations.

Investigation-derived waste, including personal protective equipment, solids, and liquids generated during the well drilling, well development, and well sampling activities, was stored, handled, and disposed of in accordance with the supplemental PDI Work Plan (EA 2024a). Solid and liquid investigation-derived waste will be transported and disposed of off-site as non-hazardous waste by EA's subcontractor, Island Pump and Tank.

2.8 SURVEY

Top of casing elevation and coordinates of the newly installed monitoring well locations were collected by an EA field geologist on 19 September 2024. The survey results are provided in **Attachment B**.

2.9 COMMUNITY AIR MONITORING PROGRAM

An EA field geologist was responsible for establishing and operating a Community Air Monitoring Program during all drilling and monitoring well installation activities in accordance with Section 8.3 of the Generic Health and Safety Plan (EA 2024b). The program included monitoring for VOCs and particulate concentrations upwind and downwind of the work zone. The monitoring stations were mobile and were relocated as the work progressed, or if the wind direction changed. The monitoring equipment calculated 15-minute running average concentrations, and all data were downloaded and stored at the conclusion of the field effort. Data collected during implementation of the Community Air Monitoring Program are available upon request. Neither particulates nor VOCs were documented above action levels.

2.10 DEVIATIONS FROM THE WORK PLAN

Deviations from the work plan occurred as follows:

- SVP-2 was not sampled due to the presence of perched water.
- MW-EA-10 was not developed or sampled due to insufficient volume of groundwater in the well.
- Stabilization of water quality parameters during development was unable to be achieved in monitoring well MW-EA-9, and turbidity did not stabilize below 50 nephelometric turbidity units because of the slow recharge rate of groundwater in the well.

- A moisture filter was added to the sampling train for SVP-1 to capture residual moisture in the SVP.

- Groundwater elevation at well MW-EA-10 was not used to generate the groundwater contour map (**Figure 4**) because the depth to water measured was so much deeper than the rest of the site wells, resulting in a shallower groundwater elevation that did not correspond to other site wells. MW-EA-10 groundwater recharge was observed to be much slower than the other site wells due to the soil formation (clay/silt mixture) present at the well.

3. RESULTS SUMMARY

3.1 OVERBURDEN GROUNDWATER SAMPLING RESULTS

Four groundwater samples, excluding quality assurance samples, were collected during the supplemental PDI field activities. Non-aqueous phase liquids were not observed during sampling. Analytical results were compared to NYSDEC Ambient Water Quality Standards (AWQS) and are summarized in **Table 2**. Methyl tertiary butyl ether (MTBE) was detected in MW-EA-9 with a concentration of 0.52 estimated (J) micrograms per liter (µg/L), which is below AWQS. All other site constituents of concern (COC) were non-detect in MW-EA-9. Parameters exceeding the NYSDEC AWQS criteria are as follows and graphically depicted on **Figure 3**.

- 1,2,4-Trimethylbenzene exceeded the AWQS of 5 µg/L in MW-EA-1R and MW-EA-6R with concentrations of 160 µg/L and 5.3 µg/L, respectively.

- 1,3,5-Trimethylbenzene exceeded the AWQS of 5 µg/L in MW-EA-1R with a concentrations of 53 µg/L.

- Benzene exceeded the AWQS of 1 µg/L in MW-EA-1R and MW-EA-4R with concentrations of 50 µg/L and 1.6 µg/L, respectively.

- Ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, and o-xylene exceeded their respective AWQS concentrations in MW-EA-1R.

- Total xylenes exceeded AWQS of 5 µg/L in wells MW-EA-1R and MW-EA-6 with concentrations of 110 J µg/L and 5.4 µg/L, respectively

- The concentration of MTBE in MW-EA-4R was 18 µg/L, exceeding the AWQS of 10 µg/L.

Static groundwater elevations were collected on 21 August 2024. Depth to water ranged from 6.14 feet bgs (MW-EA-4R) to 21.65 feet bgs (MW-EA-10). Groundwater flow direction is to the north-northwest under an approximate average hydraulic gradient of 0.015 feet per foot. Groundwater elevations are provided in **Table 1** and are depicted on **Figure 4**.

3.2 SOIL VAPOR SAMPLING RESULTS

One soil vapor sample was collected during the supplemental PDI field activities from SVP-1. The following parameters were detected above the method detection limit:

- 2,2,4-Trimethylpentane
- Cyclohexane
- Dichlorodifluoromethane
- Ethylbenzene
- M-P-Xylene
- N-Heptane
- N-Hexane
- O-Xylene

While no standards or guidance values exist for soil vapor, analytical results screened against U.S. Environmental Protection Agency Risk Screening Levels and New York State Department of Health Soil Vapor Intrusion guidance values are summarized in **Table 3**.

3.3 DATA USABILITY SUMMARY

All samples collected during the supplemental PDI were validated by EA's subcontractor Environmental Data Services, Inc. of Palm Beach Gardens, Florida. Six parameters were detected in the trip blank (acetone, 2-butanone, tert-butyl alcohol, tert-butyl ethyl ether, ethanol, and toluene). As a result of the detections in the trip blank, sample results were qualified or adjusted as follows:

- Toluene detection in MW-EA-6 was below the reporting limit and qualified as non-detect
- Acetone detections in MW-EA-9, MW-EA-4R, and MW-EA-6 were qualified as non-detects
- 2-butanone detections in MW-EA-1R and the field duplicate FD-01 were qualified as non-detects
- Tert-butyl alcohol detected in MW-EA-4R was qualified as non-detect.

Additionally, several analytes in the parent sample and duplicate were outside the acceptable precision. Therefore, affected results were qualified as estimated (J). Overall, the data reviewed and validated were acceptable for their intended purposes. The Data Usability Summary Report is provided as **Attachment C**.

4. CONCLUSIONS

This Supplemental PDI was conducted to further delineate the groundwater plume and determine soil vapor concentration within the vadose zone of the site where impacted groundwater exists. Sampling result from this investigation closed data gaps regarding the nature and extent of

groundwater contamination. MTBE was detected in MW-EA-9 below AWQS and all other site COCs were non-detect in MW-EA-9. COC impacts in groundwater are bound to the east.

During the supplemental PDI activities, changes in site COC concentrations and groundwater quality parameters were observed when compared to results collected in Fall 2023. The following is a summary of the observations:

- Concentrations of benzene, ethylbenzene, isopropylbenzene, naphthalene, toluene, and xylenes decreased substantially in MW-EA-6.
- MTBE concentrations decreased at wells MW-EA-1R, MW-EA-4R, and MW-EA-6.
- Isopropylbenzene, n-butylbenzene, and naphthalene concentrations increased at MW-EA-1R.
- Benzene, toluene, and xylene concentrations decreased in MW-EA-1R.
- Oxidation reduction potential and dissolved oxygen measurements at MW-EA-4R have decreased from an oxidative to reductive environment.
- Groundwater elevations increased between October 2023 and August 2024.

In general, COC concentrations in site monitoring wells have decreased between 2023 and 2024. Due to limited data, conclusions regarding trends in groundwater concentrations cannot be made at this time. Given the results of this investigation, it is recommended that the upcoming pilot study evaluate implementation methodology and effectives at MW-EA-1R, where concentrations of multiple contaminants have been documented across the RI and PDI sampling events.

Due to detections of several VOCs in the soil vapor sample collected from SVP-1, a vapor intrusion evaluation should be conducted if buildings are constructed on-site under a future property development effort. EA will continue with the vapor intrusion sampling planned at the DBR Plumbing property in the 2024-2025 heating season.

5. REFERENCES

EA Engineering and Its Affiliate EA Science and Technology. 2020. Generic Quality Assurance Project Plan for Work Assignments. April.

———. 2023a. Generic Field Activities Plan for Work Assignments. March.

———. 2023b. Site-Specific Health and Safety Plan Addendum. June.

———. 2024a. Pre-Design Investigation Letter Work Plan Addendum. June.

———. 2024b. Generic Health and Safety Plan for Work Assignments: NYSDEC Standby Contract No. D009806. August.

Tables

1 Groundwater Elevations

2 Groundwater Sampling Results Summary (August 2024)

3 Soil Vapor Sampling Results Summary

Figures

1 Site Location

2 Monitoring Well and Soil Vapor Point Locations

3 Groundwater Sample VOC Exceedances August 2024

4 Groundwater Contours; August 21, 2024

Attachments

A Field Documentation

B Survey Data

C Date Usability Summary Report (Environmental Data Services, Inc.)

Tables

Table 1. Groundwater Elevations

Monitoring Well	PVC Elevation (ft-NAVD88)	September 2023 Depth to Water (feet bgs)	September 2023 Groundwater Elevation (feet-NAVD88)	October 2023 Depth to Water (feet bgs)	October 2023 Groundwater Elevation (feet-NAVD88)	August 2024 Depth to Water (feet bgs)	August 2024 Groundwater Elevation (feet-NAVD88)
MW-EA-1R	425.01	12.96	412.05	11.90	413.11	7.16	417.85
TW-2	426.15	6.57	419.58	10.76	415.39	NM	NM
MW-EA-3R	425.13	12.41	412.72	8.71	416.42	6.91	418.22
MW-EA-4R	424.17	6.68	417.49	7.81	416.36	6.14	418.03
MW-EA-5	423.42	10.28	413.14	10.69	412.73	8.12	415.30
MW-EA-6	425.55	8.80	416.75	8.63	416.92	6.36	419.19
MW-EA-7	423.45	Dry	Dry	12.55	410.90	8.18	415.27
MW-EA-8	425.80	15.65	410.15	10.66	415.14	9.71	416.09
MW-EA-9*	426.08	--	--	--	--	9.26	416.82
MW-EA-10*	426.40	--	--	--	--	21.65	404.75

Notes:

* Monitoring wells MW-EA-9 and MW-EA-10 were installeed in July 2024.

NAVD 88 = Vertical datum

bgs = Below ground surface

NM = Not measured

PVC = Polyvinyl chloride

Table 2. Groundwater Sampling Results Summary (August 2024)

			Location ID	MW-EA-1R	MW-EA-1R	MW-EA-4R	MW-EA-6	MW-EA-9
			Sample Name	B00075-MW-EA-1R-082124	B00075-MW-FD-01-082124	B00075-MW-EA-4R-082124	B00075-MW-EA-6-082224	B00075-MW-EA-9-082124
			Parent Sample ID		B00075-MW-EA-1R-20240821			
			Sample Date	8/21/2024	8/21/2024	8/21/2024	8/22/2024	8/21/2024
Analyte								
VOCs (SW8260D)	**NYSDEC AWQS[1]**	**Unit**		**Result**	**Result**	**Result**	**Result**	**Result**
1,2,4-Trimethylbenzene	5	µg/L		**160**	**200**	< 1 U	**5.3**	< 1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L		**53**	**68**	< 1 U	3.8	< 1 U
2-Methyl-2-Butanol	NSL	µg/L		9.3 J	12 J	10 J	< 5 UJ	< 5 UJ
Benzene	1	µg/L		**50**	**54**	**1.6**	0.25 J	< 1 U
Cyclohexane	NSL	µg/L		6.2	8.3	< 5 U	< 5 U	< 5 U
Cymene	5	µg/L		2	2.7	< 1 U	0.17 J	< 1 U
Ethylbenzene	5	µg/L		**41 J**	**57 J**	< 1 U	1.2	< 1 U
Isopropylbenzene (Cumene)	5	µg/L		**6.5**	**8.8**	< 1 U	0.27 J	< 1 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L		< 10 U	< 10 U	< 10 U	2.3 J	< 10 U
Methylcyclohexane	NSL	µg/L		7.6	9.7	< 1 U	1.6	< 1 U
M-P-Xylene	5	µg/L		100 J	140 J	< 2 U	3.9	< 2 U
Naphthalene	10	µg/L		**12**	**16**	< 2 U	1.0 J	< 2 U
N-Butylbenzene	5	µg/L		4.2	**5.6**	< 1 U	0.39 J	< 1 U
N-Propylbenzene	5	µg/L		**18**	**24**	< 1 U	0.57 J	< 1 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L		**7.4**	**9**	< 1 U	1.5	< 1 U
Sec-Butylbenzene	5	µg/L		2.2	2.8	< 1 U	< 1 U	< 1 U
Tert-Butyl Methyl Ether	10	µg/L		0.29 J	0.31 J	**18**	< 1 U	0.52 J
Toluene	5	µg/L		2.7	< 1 U	< 1 U	< 1 U	< 1 U
Xylenes	5	µg/L		**110 J**	**150 J**	< 1 U	**5.4**	< 1 U

Notes:
(1) New York State Department of Environmental Conservation Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
µg/L = Mircogram(s) per liter
J = Concentration is estimated
NSL = No screening level available
U = Analyte not detected
VOC = Volatile organic compound
Concentrations exceeding the screening level are bolded.

Table 3. Soil Vapor Sampling Results Summary

				Location ID	**SVP-01**
				Sample Name	**B00075-SVP-1-082224**
				Parent Sample ID	
				Sample Date	**8/22/2024**
Analyte (VOCs via TO-15)	**EPA Industrial Air [1]**	**EPA Industrial Sub-Slab Soil Gas RSL[2]**	**NYSDOH Sub-Slab Vapor [2]**	**Unit**	**Results**
2,2,4-Trimethylpentane	NSL	NSL	60	µg/m^3	32000
Cyclohexane	26000	86667	60	µg/m^3	160
Dichlorodifluoromethane	440	1467	NSL	µg/m^3	2.4 J
Ethylbenzene	4.9	16	60	µg/m^3	2.1 J
M-P-Xylene	NSL	NSL	NSL	µg/m^3	4.0 J
N-Heptane	1800	60000	200	µg/m^3	160
N-Hexane	3100	103333	200	µg/m^3	570
O-Xylene (1,2-Dimethylbenzene)	440	14667	60	µg/m^3	2.0 J

Notes:

(1) EPA Industrial Air RSLs for Target Cancer Risk (TR) = 1E-06 and Target Hazard Quotient (THQ) = 0.1 (EPA 2023, November).

(2) Values calculated based on EPA Industrial Air Regional Screening Levels (EPA 2023, November), respectively, modified using the methodology specified in the EPA OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, June 2015 by dividing by an attenuation factor of 0.03.

(3) NYSDOH Screening level is lowest value for Sub-Slab Vapor Concentration in New York State Department of Health Soil Vapor Intrusion

µg/m^3 = Microgram(s) per meter-cubed

EPA = U.S. Environmental Protection Agency

ID = Identification

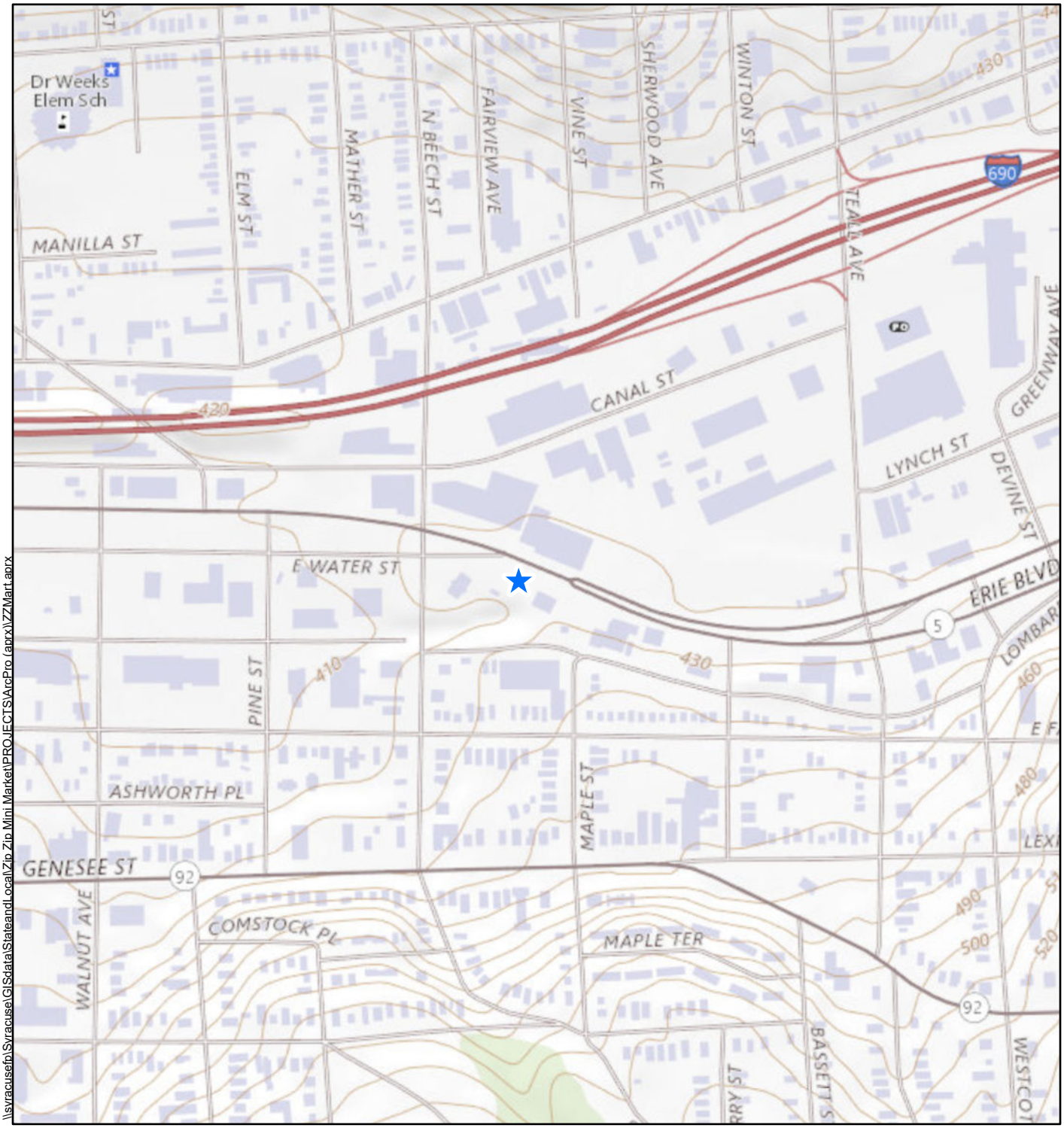
J = Concentration is estimated

NSL = No screening level available

NYSDOH = New York State Department of Health

VOC = Volatile organic compound

Figures



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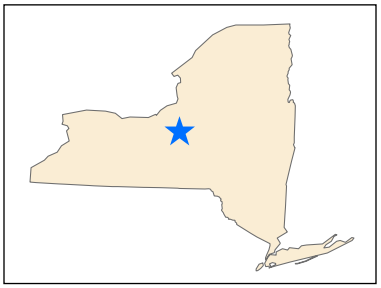


Legend

★ Site Location

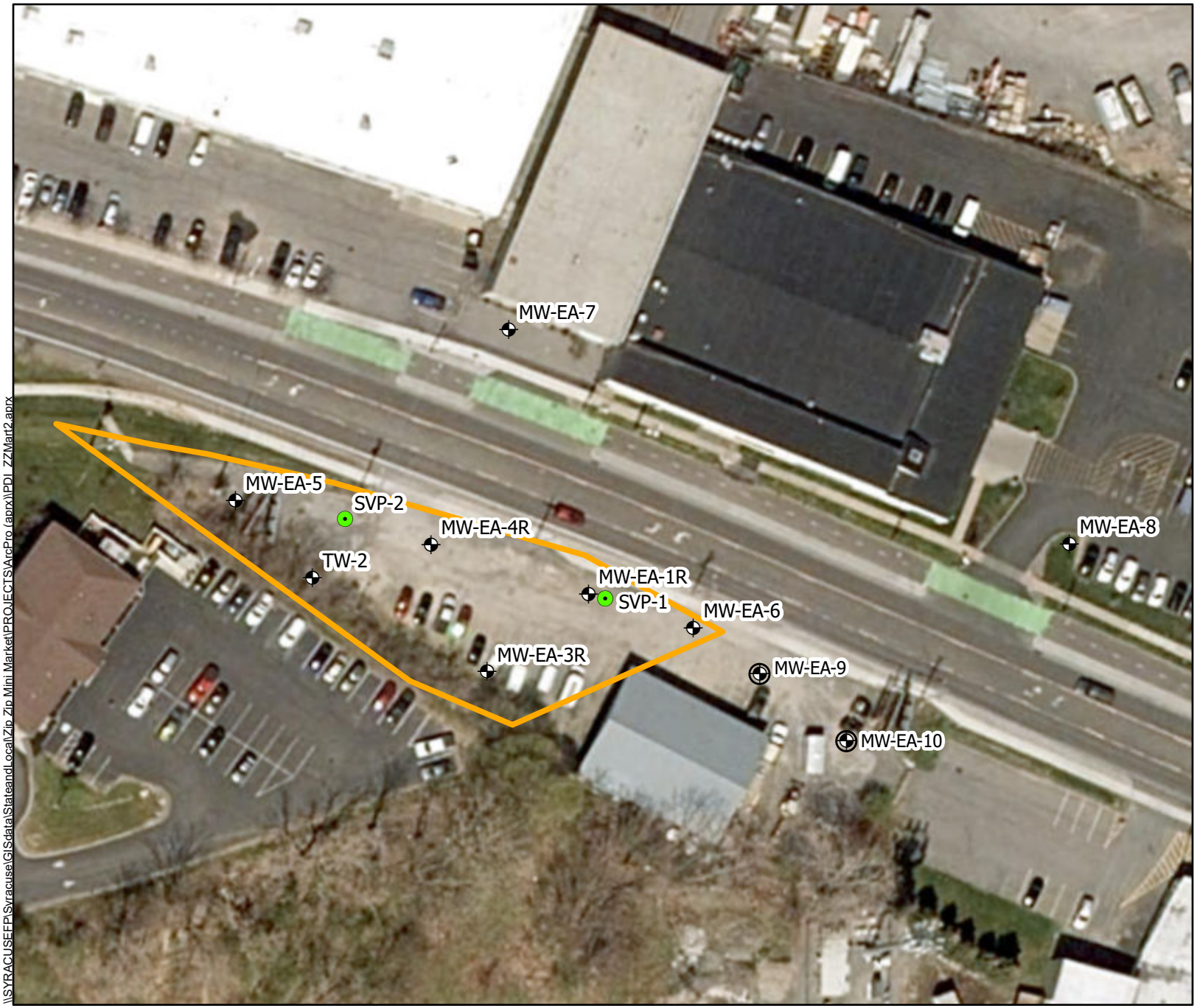
0 500 1,000
Feet

N

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

Map Date: 3/22/2024
Projection: NAD 1983 State Plane New York Central FIPS

NEW YORK STATE Department of Environmental Conservation



VICINITY MAP

Legend

- Monitoring Well (Installed September 2023)
- Soil Vapor Point (Installed September 2023)
- New Monitoring Well (Installed July 2024)
- Site Outline

N

0 50 100

Feet

Map Date: 10/1/2024
Projection: NAD 1983 2011 StatePlane New York Central FIPS 3102 Ft US

NEW YORK STATE Department of Environmental Conservation

Figure 2
Monitoring Well and Soil Vapor Point Locations
Zip Zip Mini Mart
Supplemental Pre-Design Investigation

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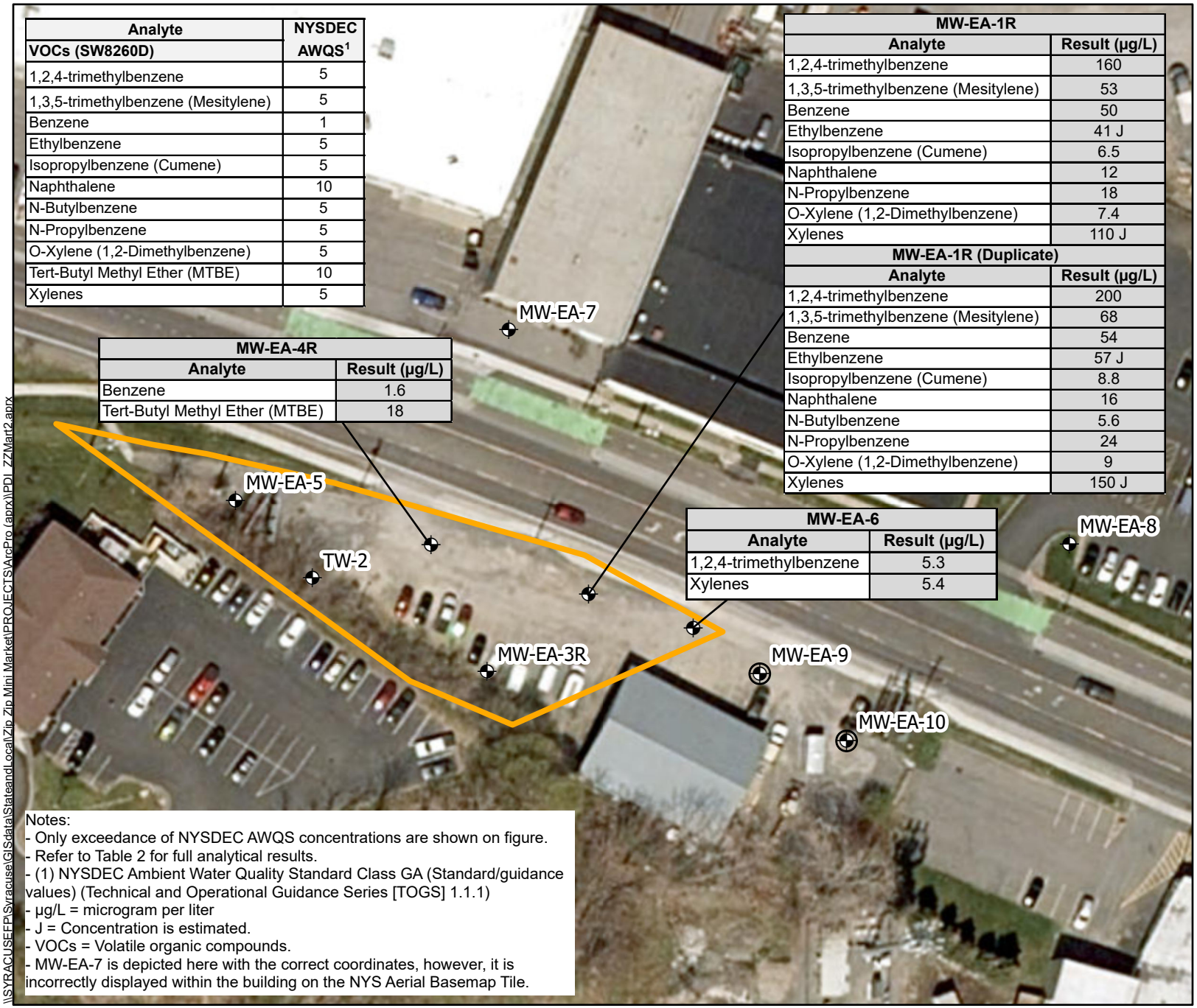


Analyte	NYSDEC AWQS[1]
VOCs (SW8260D)	
1,2,4-trimethylbenzene	5
1,3,5-trimethylbenzene (Mesitylene)	5
Benzene	1
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
Naphthalene	10
N-Butylbenzene	5
N-Propylbenzene	5
O-Xylene (1,2-Dimethylbenzene)	5
Tert-Butyl Methyl Ether (MTBE)	10
Xylenes	5

MW-EA-4R	
Analyte	**Result (µg/L)**
Benzene	1.6
Tert-Butyl Methyl Ether (MTBE)	18

MW-EA-1R	
Analyte	**Result (µg/L)**
1,2,4-trimethylbenzene	160
1,3,5-trimethylbenzene (Mesitylene)	53
Benzene	50
Ethylbenzene	41 J
Isopropylbenzene (Cumene)	6.5
Naphthalene	12
N-Propylbenzene	18
O-Xylene (1,2-Dimethylbenzene)	7.4
Xylenes	110 J
MW-EA-1R (Duplicate)	
Analyte	**Result (µg/L)**
1,2,4-trimethylbenzene	200
1,3,5-trimethylbenzene (Mesitylene)	68
Benzene	54
Ethylbenzene	57 J
Isopropylbenzene (Cumene)	8.8
Naphthalene	16
N-Butylbenzene	5.6
N-Propylbenzene	24
O-Xylene (1,2-Dimethylbenzene)	9
Xylenes	150 J

MW-EA-6	
Analyte	**Result (µg/L)**
1,2,4-trimethylbenzene	5.3
Xylenes	5.4

Notes:
- Only exceedance of NYSDEC AWQS concentrations are shown on figure.
- Refer to Table 2 for full analytical results.
- (1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
- µg/L = microgram per liter
- J = Concentration is estimated.
- VOCs = Volatile organic compounds.
- MW-EA-7 is depicted here with the correct coordinates, however, it is incorrectly displayed within the building on the NYS Aerial Basemap Tile.

VICINITY MAP

Legend

- Monitoring Well
- New Monitoring Well (Installed July 2024)
- Site Outline

N

0 50 100

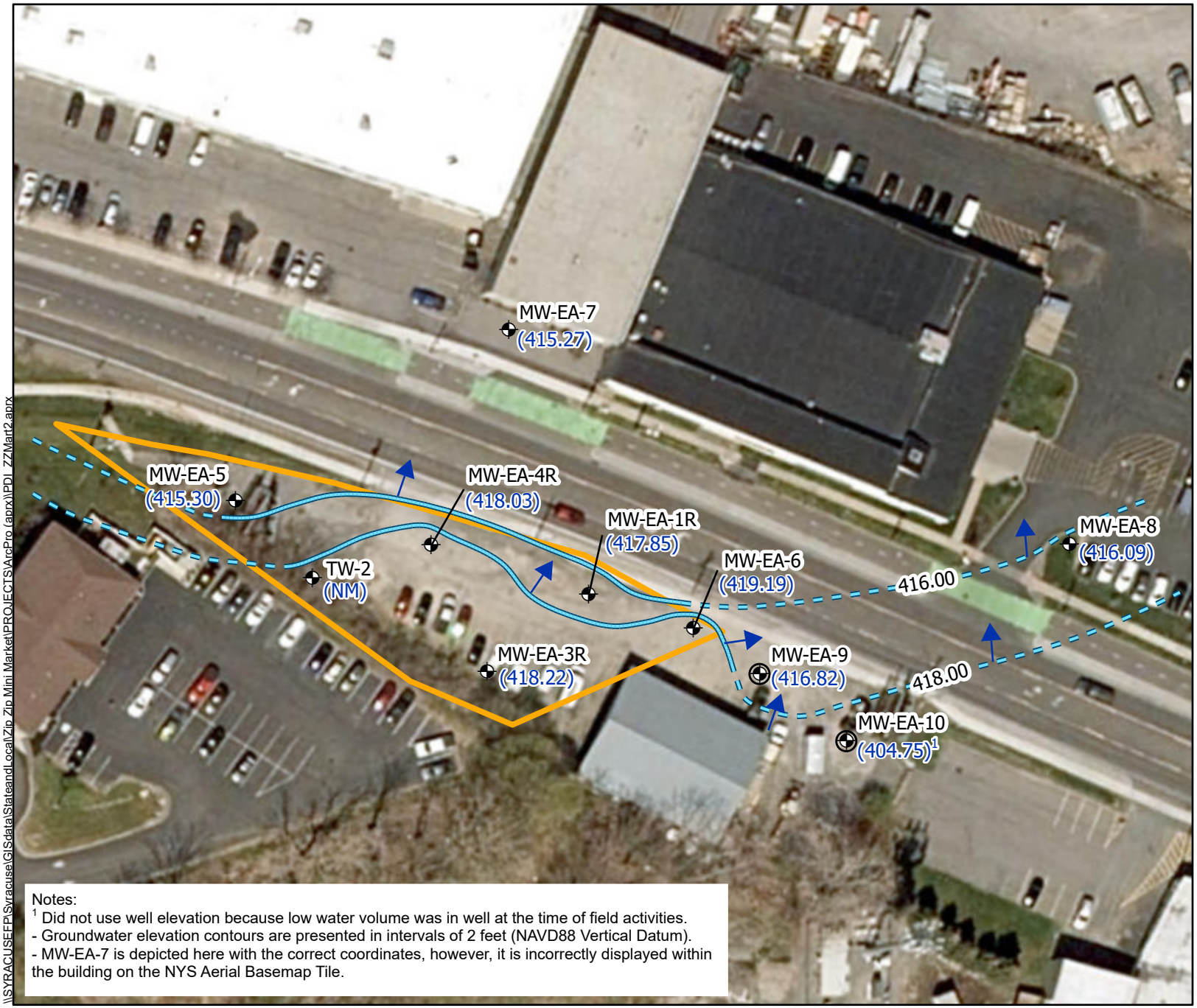
Feet

Map Date: 10/23/2024
Projection: NAD 1983 2011 StatePlane New York Central FIPS 3102 Ft US

NEW YORK STATE Department of Environmental Conservation

Figure 3
Groundwater Sample VOC Exceedances August 2024
Zip Zip Mini Mart
Supplemental Pre-Design Investigation Results Summary

\\SYRACUSEFP\Syracuse\GIS\data\StateandLocal\Zip Zip Mini Market\PROJECTS\ArcPro (aprx)\PDI_ZZMart2.aprx



Notes:
[1] Did not use well elevation because low water volume was in well at the time of field activities.
- Groundwater elevation contours are presented in intervals of 2 feet (NAVD88 Vertical Datum).
- MW-EA-7 is depicted here with the correct coordinates, however, it is incorrectly displayed within the building on the NYS Aerial Basemap Tile.

VICINITY MAP

Legend

- Monitoring Well
- New Monitoring Well (Installed July 2024)
- Measured Groundwater Contour
- Inferred Groundwater Contour
- Site Outline
- (416.09) Groundwater Elevation at Well
- Groundwater Flow Direction

NM = Not Measured

N

0 50 100

Feet

Map Date: 10/4/2024
Projection: NAD 1983 2011 StatePlane New York Central FIPS 3102 Ft US

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Figure 4
Groundwater Contours
August 21, 2024
Zip Zip Mini Mart
Supplemental Pre-Design Investigation Results Summary

\\SYRACUSEFP\Syracuse\GIS\data\StateandLocal\Zip Zip Mini Market\PROJECTS\ArcPro (aprx)\PDI_ZZMart2.aprx

Attachment A

Field Documentation

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Job. No.	Client: NYSDEC	Location:
	Project: Zip Zip Mini Market PDI, Additional Wells	MW-EA-9
Drilling Method: Hollow Stem Augers, CME-50 Drill Rig		Soil Boring Number: SB-9
Sampling Method: Split Spoon (SPT)		Sheet 1 of 1

SOIL BORING LOG

Coordinates: Northing 1111560.286 Easting: 942500.23
Surface Elevation: NM
Casing Below Surface: NM
Reference Elevation: 426.08 ft amsl
Reference Description: TOC

		Drilling Start	Drilling Finish
Water Level:	9.26 ft TOC		
Time:	--	7/11/2024	7/11/2024
Date:	8/21/2024	0822	1240

Surface Conditions: Part asphalt and broken up fill material
Weather: Cloudy
Temperature: 70's

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
NA	NA	NA	NA	0	Fill	(0-5 ft bgs): Silt, fine sand, fine to medium gravel, hard clay. (Fill)-- Soft Digged to 5 ft.
				1		
				2		
				3		
				4		
3/3	1/1	NA	0.0	5	SM	(5-6 ft bgs): 10YR 3/4, loose, FINE TO MEDIUM SAND (85%), some silt (10%), trace clay (3%), trace fine to medium gravel (subangular to subrounded) (2%), moist, no odor or staining.
3/3/4/6	4/2	NA	0.0	6	SM/SC	(6-8 ft bgs.): 10YR 3/3, loose, SILT (85%), some clay (10%), trace fine to medium gravel (subrounded to subangular) (3%), trace fine sand (2%), medium plasticity, damp, medium stiff, no odor or staining.
				7		
2/1/2/3	4/3	NA	0.0	8	CL/ML	(8-10 ft bgs.): 10YR 3/2, soft, CLAY (85%), medium plasticity, some silt (10%), trace fine to medium gravel (subrounded to subangular) (5%), moist, no odor or staining.
				9		
2/2/3/3	4/3	NA	0.0	10	CL	(10-12 ft bgs.): 10YR 3/2, medium stiff, CLAY (85%), medium plasticity, some slit (10%),trace fine gravel (subangular to subrounded) (5%), saturated, no odor or staining.
				11		
3/3/5/5	4/3	NA	0.0	12	CL/ML	(12-14 ft bgs.): 10YR 4/3, medium stiff, CLAY (85%), medium to high plasticity, some silt (10%), trace fine gravel (subangular to subrounded) (5%), moist, no odor or staining.
				13		
12/14/18/17	4/3	NA	0.0	14	CL	(14-16 ft bgs.): 10YR 3/2, very stiff, CLAY (90%), some silt (7%), low plasticity, trace fine gravel (subrounded to subangular) (3%), saturated, no staining or odors.(Till)
				15		
18/24/28/50/.4	4/3	NA	0.0	16	CL	(16-17.9 ft bgs.): 10YR 3/2, hard, CLAY (90%), some silt (7%), low to medium plasticity, trace fine gravel (subrounded to subangular) (3%), saturated, no staining or odors.(Till). Refusal at 17.9 ft bgs.
				17		HSA to 18.5 ft bgs. Refusal.
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	18	ft bgs		
Stick Up or Flush Mount:	Flush Mount			
Screen Interval:	8	To	18	ft bgs
Riser Interval:	0	To	8	ft bgs
Sand Pack Interval:	5	To	18.5	ft bgs
Bentonite Seal:	2	To	5	ft bgs
Grout Interval:	0	To	0.5	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	NA	ft
Bottom of Tubing:	NA	ft
Top of Sand Pack:	NA	ft
Top of Bentonite Seal:	NA	ft

Logged by: Thomas Robinson (EA) Date: 07-11-24
Drilling Contractor: Parratt-Wolff, Inc. Driller: Mark Eaves

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	**Client:**	NYSDEC			**Location:**
	Project:	Zip Zip Mini Market PDI, Additional Wells			MW-EA-10
Drilling Method:	Hollow Stem Augers, CME-50 Drill Rig				**Soil Boring Number:** SB-10
Sampling Method:	Split Spoon (SPT)				**Sheet 1 of 1**
Water Level:	21.65				**Drilling** Start: 7/11/2024 1250 / Finish: 7/12/2024 1050
Time:	--				
Date:	8/21/2024				

Coordinates: Northing 1111527.669 Easting: 942542.362
Surface Elevation: NM
Casing Below Surface: NM
Reference Elevation: 426.40 ft amsl
Reference Description: TOC

Surface Conditions: Part asphalt and broken up fill material
Weather: Partly Cloudy
Temperature: 70's to 80's

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
NA	NA	NA	NA	0	Fill	(0-5 ft bgs): Silt, fine sand, fine to medium gravel, hard clay. (Fill)-- Soft Digged to 5 ft.
				1		
				2		
				3		
				4		
3/6	4/1	NA	0.0	5	SM	(5-6 ft bgs): 10YR 4/3, loose, FINE TO MEDIUM SAND (85%), some silt (10%), trace fine to medium gravel (subangular to subrounded) (5%), moist, no odor or staining.
5/5/6/8	4/3	NA	0.0	6	SM/SC	(6-8 ft bgs.): 10YR 3/3, stiff, SILT (85%), some clay (10%), trace fine to medium gravel (subrounded to subangular) (5%), low plasticity, damp, medium stiff, no odor or staining.
				7		
4/5/5/4	4/1	NA	0.0	8	GW	(8-10 ft bgs.): Limited Recovery, 10YR 6/1, FINE TO MEDIUM GRAVEL (90%) (subangular), trace fine to medium sand (5%), dry, no odor or stains.
				9		
30/22/10/10	4/1	NA	0.0	10	GW	(10-12 ft bgs.): 10YR 6/1, dense, FINE TO MEDIUM GRAVEL (90%) (subangular to subrounded), some fine sand (10%), dry, no odor or stains.
				11		
17/8/8/10	4/0	NA	0.0	12	NA	(12-14 ft bgs.): No sample recovery.
				13		
4/5/4/5	4/3	NA	0.0	14	CL	(14-16 ft bgs.): 10YR 4/3, medium stiff, CLAY (70%), some silt (7%), low plasticity, some silt (25%),trace fine to medium gravel (subrounded to subangular) (5%), moist, no staining or odors.
				15		
4/5/4/5	4/1	NA	0.0	16	CL	(16-18 ft bgs.): 10YR 3/3, medium stiff, CLAY (90%), low plasticity, some fine to medium gravel (subrounded to subangular) (10%), moist, no odors or staining.
				17		
5/5/4/4	4/2	NA	0.0	18	CL	(18-20 ft bgs.): 10YR 3/3, medium stiff, CLAY (90%), low plasticity, trace silt (5%), trace fine to medium gravel (subrounded to subangular) (5%), moist, no odors or staining.
				19		
2/3/8/3	4/2	NA	0.0	20	CL	(20-22 ft bgs.): 10YR 3/3, stiff, CLAY (90%), low plasticity, trace silt (5%), trace fine to medium gravel (subrounded to subangular) (5%), moist, no odors or staining.
				21		
-/-/7/50/.3	4/1	NA	0.0	22	CL	(20-22.7 ft bgs.): 10YR 3/4, hard, CLAY (95%), low to medium plasticity, trace fine to medium gravel (subrounded to subangular) (5%), moist, no odors or staining.
				23		HSA to 22.7 ft bgs. Refusal.
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	22.7	ft bgs		
Stick Up or Flush Mount:	Flush Mount			
Screen Interval:	7	To	22	ft bgs
Riser Interval:	0	To	7	ft bgs
Sand Pack Interval:	5	To	22.7	ft bgs
Bentonite Seal:	2	To	5	ft bgs
Grout Interval:	0	To	0.5	ft bgs

Soil Vapor Point Installation Information

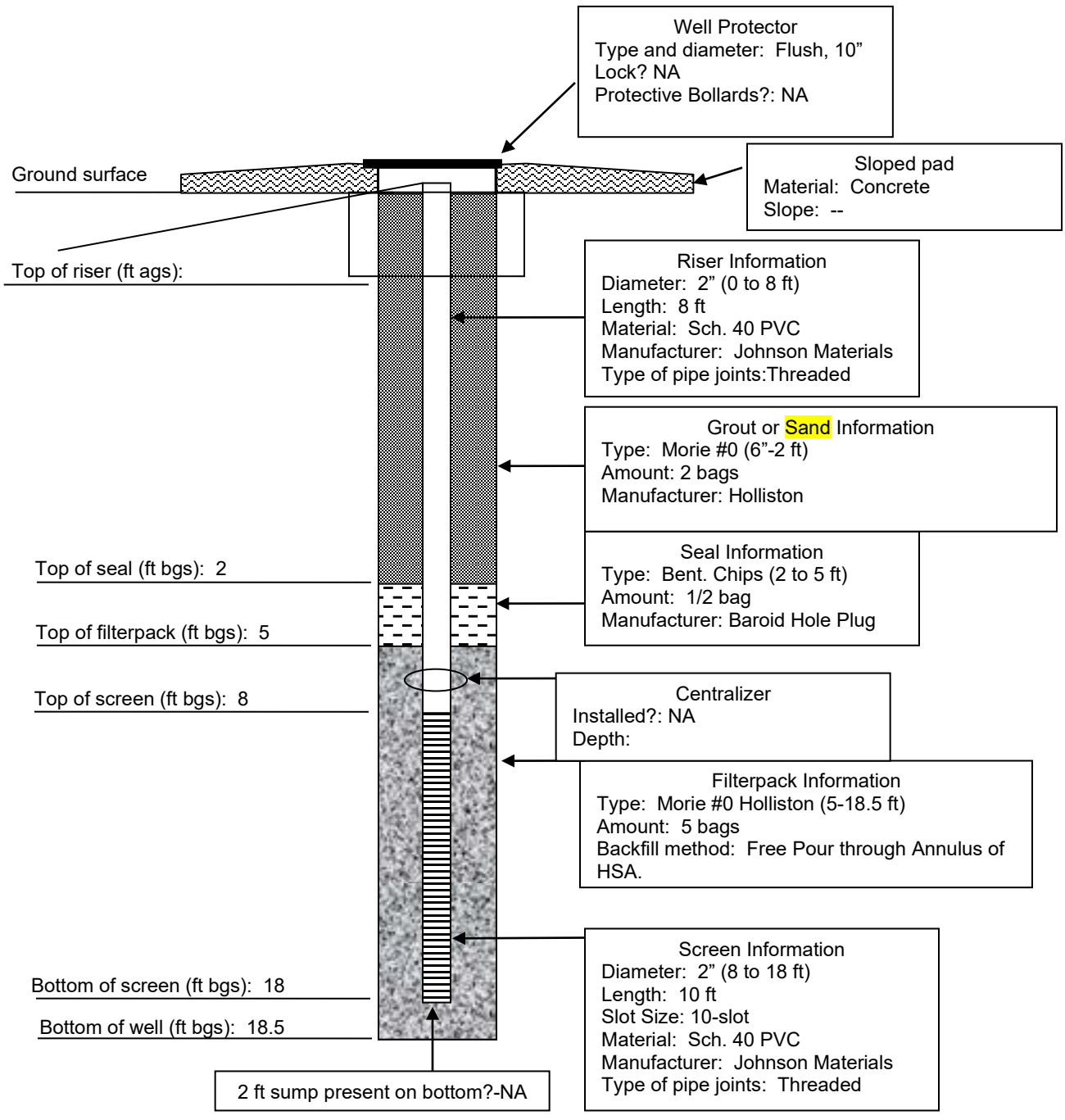
Depth of Soil Vapor Point:	NA	ft
Bottom of Tubing:	NA	ft
Top of Sand Pack:	NA	ft
Top of Bentonite Seal:	NA	ft

Logged by: Thomas Robinson (EA) Date: 07-12-24
Drilling Contractor: Parratt-Wolff, Inc. Driller: Mark Eaves

RECORD OF MONITORING WELL CONSTRUCTION

(FLUSH MOUNT)

EA Engineering, Science, and Technology, Inc.	Monitoring Well/Soil Boring ID No.: **MW-EA-9** Permit No.: NA
Project Name/ Project No.: **Zip Zip Mini Market PDI/1602532**	Date Installed: 7**-11-24** Time Finished: 7**-11-24**
Location: **MW-EA-9**	Depth to Water: 9.26 **ft**
Site Geologist: T. Robinson	Drilling Method: **HSA/SPT**
Borehole Diameter: **4 ¼"**	Outer Casing?: **NA**

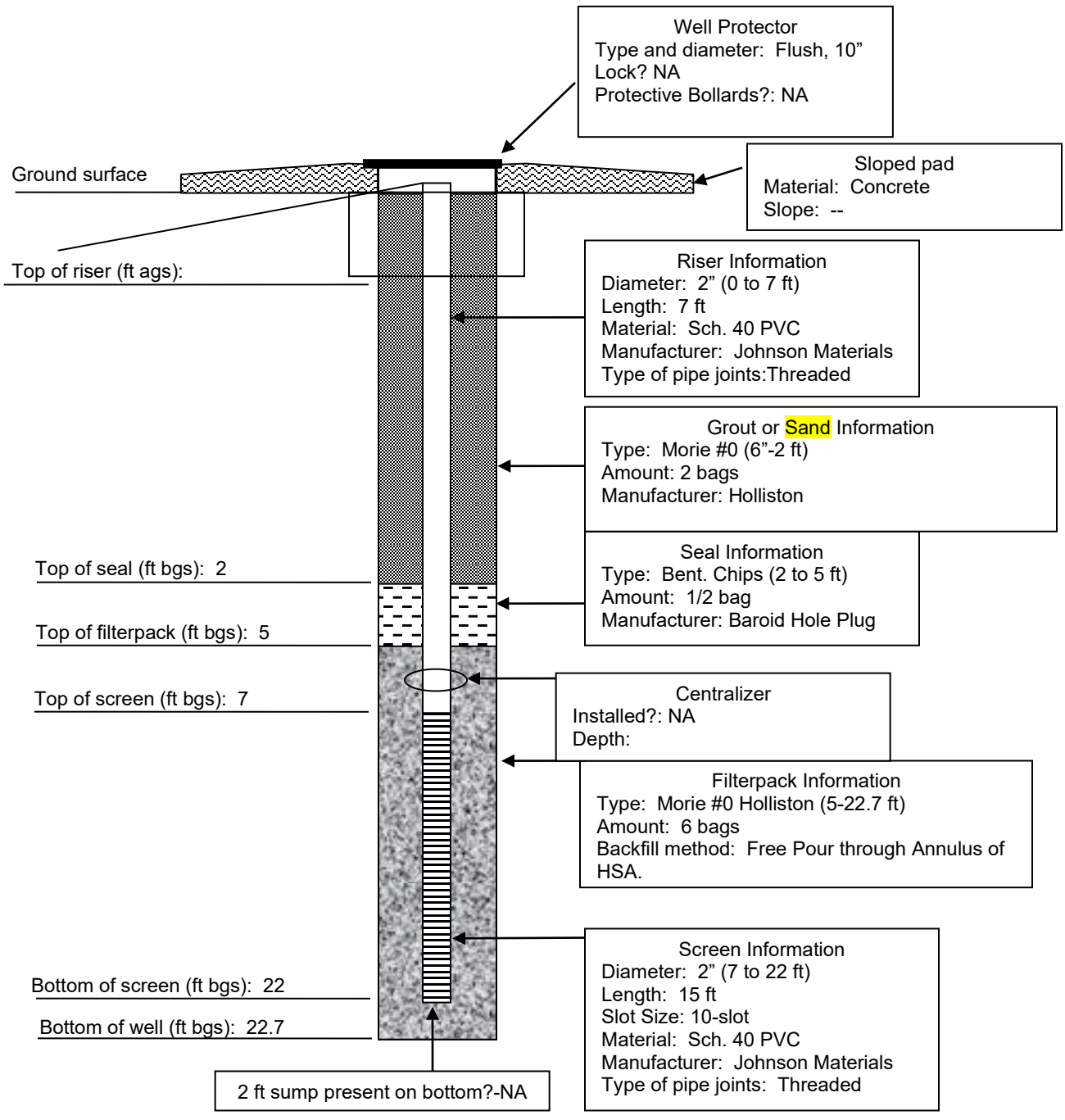


Note: All features not to scale

RECORD OF MONITORING WELL CONSTRUCTION

(FLUSH MOUNT)

EA Engineering, Science, and Technology, Inc.	Monitoring Well/Soil Boring ID No.: **MW-EA-10** Permit No.: NA
Project Name/ Project No.: **Zip Zip Mini Market PDI/1602532**	Date Installed: 7**-11-24** Time Finished: 7**-12-24**
Location: **MW-EA-10**	Depth to Water: 21.65 **ft**
Site Geologist: T. Robinson	Drilling Method: **HSA/SPT**
Borehole Diameter: **4 ¼"**	Outer Casing?: **NA**



Note: All features not to scale

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MW-EA-9	EA Personnel: T. Robinson C. Straus	Client: NYSDEC
Location: In Front of OBR	Well Condition: Excellent	Weather: 72°F partly cloudy
Sounding Method: water level meter	Gauge Date: 7-16-24 Gauge Time: 0735	Measurement Ref:
Stick Up/Down (ft):	PID Headspace Reading: 13.1	Well Diameter (in): 2

Purge Date: 7-16-24	Purge Time: ~~0830~~ 1025
Purge Method: Submersible pump	Field Technician: T. Robinson

Well Volume

A. Well Depth (ft): 18	D. Well Volume (ft): 0.163 gal/ft	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.1	E. Well Volume (gal) C*D): 0.799	Pump Type: Monsoon
C. Liquid Depth (ft) (A-B): 4.9	F. Three Well Volumes (gal) (E3): 2.40 gal	Pump Intake Depth: 18

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1030	6.73	3.58	310	9.94	23.31	~~193~~ 193	15.7		
1035	6.91	3.63	157	5.07	21.38	175	17.0		
1040	6.93	3.79	114	9.18	22.07	177	17.1		
1045	6.93	3.81	110	8.78	22.12	181	17.2		
1050	7.03	3.84	144	6.28	24.05	167	DRY		
1055	7.08	~~3~~ 3.83	132	6.15	24.01	153	DRY		
1100	No water								
1105	7.18	3.93	218	8.43	26.03	151	DRY		
1110	No water								
1115	No water								
1120	7.43	3.95	372	3.51	28.55	123	DRY		

Total Quantity of Water Removed (gal): ~ 3 Personnel: T. Robinson, C. Straus

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MW-EA-09	EA Personnel: EC/CZ/HB	Client: NYSDEC
Location: ZipZip Mini Market	Well Condition: Good	Weather: 70F/Sun
Sounding Method: Heron WLM	Gauge Date: 8/7/24 Gauge Time: 0815	Measurement Ref: —
Stick Up/Down (ft): down ~ 4"	PID Headspace Reading: —	Well Diameter (in): 2"

Purge Date: 8/7/24	Purge Time: 0830
Purge Method: surge + bail	Field Technician: EC/CZ/HB

Well Volume

A. Well Depth (ft): 17.99	D. Well Volume (ft): ~~1.4~~ 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 9.25	E. Well Volume (gal) C*D): 1.4	Pump Type: bailer
C. Liquid Depth (ft) (A-B): 8.74	F. Three Well Volumes (gal) (E3): 4.27	Pump Intake Depth:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0842	10.25	4.21	>1000	2.45	18.19	124	11.06	1 well	volume
0850	8.74	3.95	>1000	2.95	18.34	132	—	2 well	volumes
0858	8.06	3.92	>1000	0.93	17.96	134	13.55	~2.5 well	volumes
0905	7.85	3.85	933	1.60	17.65	139	16.12	3 well	volumes
0910	7.70	3.83	415	2.11	16.75	145	17.00	4 well	volumes
—	—	dry after ~4 well volumes				—			

Total Quantity of Water Removed (gal): ~6 gals Personnel:

COMMENTS AND OBSERVATIONS: purge water containerized in drums onsite

FIELD SOIL VAPOR SAMPLING FORM

® EA Engineering, P.C. and Its Affiliate EA Science and Technology SOIL VAPOR SAMPLING LOG	Project #: 1602532 Project Name: Zip Zip mini mart Location: Syracuse, NY Project Manager: Emily Cummings

Sample Location Information:

Site ID Number:	B00075			Sampler(s):	LBL
PID Meter Used (Model, Serial #) :				Soil Vapor I.D. No.:	SVP-1

SUMMA Canister Record:

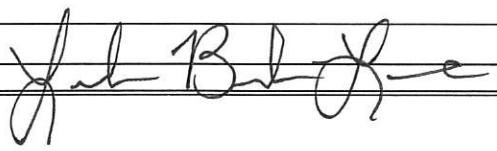
SOIL VAPOR POINT		DUPLICATE SAMPLE (IF COLLECTED)	
Flow Regulator No.:	BC 4549	Flow Regulator No.:	
Canister Serial No.:	BC ~~1019~~ 2189	Canister Serial No.:	
Start Date/Time:	8/22/24 11:30	Start Date/Time:	
Start Pressure: (inches Hg)	-28	Start Pressure: (inches Hg)	
Stop Date/Time:	8/22/24 12:35	Stop Date/Time:	
Stop Pressure: (inches Hg)	6	Stop Pressure: (inches Hg)	
Sample ID:	B00075-SVP-1-082224	Sample ID:	

Other Sampling Information:

Helium percentage achieved in enclosure for Tracer Gas Test:	—	Depth to sample point:	
Tracer Gas test result (% of Helium):	—	Nearest Groundwater Elevation:	
Noticeable Odor?	N/A	Additional info:	
Purge Volume PID Reading (ppb)	N/A		
Duplicate Sample?	N/A		
Outdoor Ambient Temperature:	70°F		
Wind Direction:	West		

Comments:

None.

Sampler Signature: 

EA Engineering, P.C.
EA Science and Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-EA-9	EA Personnel: LBL	Client: NYSDEC
Location: lot	Well Condition: New	Weather: 61°F, light rain
Sounding Method: Heron Dipper T	Gauge Date: 8/21/24	Measurement Ref: TOIC
Stick Up/Down (ft): -0.1	Gauge Time: 09:23	Well Diameter (in): 2

Purge Date: 8/21/24	Purge Time: 10:28
Purge Method: low flow - peri pump	Field Technician: LBL

Well Volume

A. Well Depth (ft): 18.03	D. Well Volume (ft): 0.163 gal/ft	Depth/Height of Top of PVC: -0.1
B. Depth to Water (ft): 9.26	E. Well Volume (gal) C*D): 1.43	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 8.77	F. Three Well Volumes (gal) (E3): 4.29	Pump Intake Depth: 15.03

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
10:31	19.79	6.62	-35	4.19	28.0	0.81	9.64	0.3	0.9
10:36	19.29	7.20	-130	4.22	31.9	0.34	10.06	0.3	2.4
10:41	19.08	7.24	-150	4.25	38.4	0.22	10.48	0.3	3.9
10:46	18.82	7.22	-155	4.28	30.1	0.19	10.92	0.3	5.4
10:51	18.80	7.19	-146	4.28	15.3	0.18	11.33	0.3	6.9
10:56	18.70	7.18	-140	4.28	16.1	0.16	11.78	0.3	8.4
11:01	18.76	7.18	-138	4.28	15.7	0.15	12.12	0.3	9.9

Total Quantity of Water Removed (gal):	9.9L	Sampling Time:	11:01
Samplers:	LBL	Split Sample With:	MS/MSD
Sampling Date:	8/21/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-EA-6	EA Personnel: LBL	Client: NYSDEC
Location: lot	Well Condition: New	Weather: 61°F, cloudy
Sounding Method: Heron Dipper-T	Gauge Date: 8/21/24	Measurement Ref: TOIC
Stick Up/Down (ft): -0.3	Gauge Time: 09:33	Well Diameter (in): 2"

Purge Date: 8/21/24	Purge Time: 1125
Purge Method: low flow - peri pump	Field Technician: LBL

Well Volume

A. Well Depth (ft): 10.58	D. Well Volume (ft): 0.163 gal/ft	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 6.36	E. Well Volume (gal) C*D: 0.69	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 4.22	F. Three Well Volumes (gal) (E3): 2.07	Pump Intake Depth: 9.58

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
11:27	20.22	8.17	-76	2.22	110	1.08	6.74	0.3	0.6
11:32	20.82	8.33	-130	0.834	75.0	0.21	7.22	0.3	2.1
11:37	20.86	8.23	-134	0.20	10.8	0.23	7.80	0.3	3.6
11:42	20.76	8.34	-197	2.01	20.3	0.18	8.38	0.3	5.1
11:47	20.58	8.40	-240	2.36	35.6	0.16	8.90	0.3	6.6
11:52	19.92	8.40	-279	2.91	44.4	0.10	9.36	0.3	8.1
11:57	20.03	8.39	-303	2.99	36.8	0.04	9.92	0.3	9.6
12:02	—	—	—	Well	Dry	—	—	—	—

Total Quantity of Water Removed (gal): _____
Samplers: LBL
Sampling Date: 8/21/24

Sampling Time: 08:40 8/22/24
Split Sample With: N/A
Sample Type: Grab

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C.
EA Science and Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-EA-4R	EA Personnel: LBL	Client: NYSDEC
Location: lot	Well Condition: New	Weather: 61°F, cloudy
Sounding Method: Heron Dipper T	Gauge Date: 8/21/24	Measurement Ref: TOIC
Stick Up/Down (ft): 0.3	Gauge Time: 09:44	Well Diameter (in): 2"

Purge Date: 8/21/24	Purge Time: ~~10~~ 12:14
Purge Method: low flow - peri pump	Field Technician: LBL

Well Volume

A. Well Depth (ft): 13.30	D. Well Volume (ft): 0.163 gal/ft	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 6.14	E. Well Volume (gal) C*D: 1.17	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): ~~6~~ 7.16	F. Three Well Volumes (gal) (E3): 3.51	Pump Intake Depth: 13.00

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
12:17	20.73	7.71	-181	3.09	48.2	4.51	6.58	0.3	0.9
12:22	20.79	7.59	-203	3.08	116	0.22	6.96	0.3	2.4
12:27	20.93	7.54	-234	3.08	22.4	0.10	7.44	0.3	3.9
12:32	20.96	7.55	-227	3.08	19.1	0.09	7.89	0.3	5.4
12:37	20.98	7.55	-219	3.07	14.0	0.06	8.39	0.3	6.9
12:42	20.75	7.50	-183	3.08	14.3	0.01	8.88	0.3	8.4
12:47	20.45	7.45	-188	3.08	12.8	0.02	9.36	0.3	9.9
12:52	20.10	7.41	-171	3.07	18.9	0.02	9.61	0.3	11.4
12:57	19.12	7.35	-142	3.07	20.5	0.01	9.97	0.3	12.9
13:02	18.83	7.39	-238	3.05	39.4	0.01	10.18	0.3	14.4
13:07	18.76	7.33	-213	3.07	27.1	0.01	10.39	0.3	15.9
13:12	18.92	7.27	-212	3.09	8.7	0.01	10.89	0.3	17.4
13:17	18.90	7.25	-218	3.10	8.3	0.01	11.41	0.3	18.9
13:22								0.3	20.4

Total Quantity of Water Removed (gal):	20.4 L	Sampling Time:	13:22
Samplers:	LBL	Split Sample With:	N/A
Sampling Date:	8/21/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-EA-1R	EA Personnel: LBL	Client: NYSDEC
Location: lot	Well Condition: New	Weather: 61°F, cloudy
Sounding Method: Heron Dipper T	Gauge Date: 8/21/24	Measurement Ref: TOIC
Stick Up/Down (ft): -0.3	Gauge Time: 09:38	Well Diameter (in): 2"

Purge Date: 8/21/24	Purge Time: 13:41
Purge Method: low flow - peri pump	Field Technician: LBL

Well Volume

A. Well Depth (ft): 16.74	D. Well Volume (ft): 0.163 gal/ft	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 7.16	E. Well Volume (gal) C*D: 1.56	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 9.58	F. Three Well Volumes (gal) (E3): 4.68	Pump Intake Depth: 14.74

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1343	18.94	7.47	-13	1.85	21.6	1.40	7.58	0.3	0.6
1348	18.86	7.31	-22	1.83	16.8	0.59	8.05	0.3	2.1
1353	18.91	7.33	-16	1.83	11.2	0.61	8.31	0.3	3.6
1358	19.02	7.33	-2	1.84	10.3	1.10	8.55	0.3	5.1
1403	19.11	7.32	7	1.83	8.0	1.62	8.79	0.3	6.6
1408	19.25	7.31	15	1.85	5.1	2.10	9.05	0.3	8.1
1413	19.25	7.31	15	1.84	4.6	2.27	9.32	0.3	9.6
1418	19.41	7.30	-35	1.83	3.7	2.44	9.71	0.3	11.1
1423	19.45	7.30	-90	1.83	3.6	2.20	9.94	0.3	12.6
1428	19.49	7.29	-136	1.82	3.2	2.03	10.31	0.3	14.1
1433	19.53	7.28	-156	1.82	3.2	1.07	10.60	0.3	15.6
1438	19.59	7.27	-178	1.82	3.3	0.47	10.73	0.3	17.1
1443	19.67	7.24	-190	1.85	3.2	0.15	10.98	0.3	18.6
1448	19.73	7.24	-196	1.87	3.4	0.09	11.27	0.3	20.1
1453	19.78	7.23	-199	1.88	3.6	0.09	11.56	0.3	21.6
1458	19.82	7.23	-202	1.88	3.3	0.07	11.84	0.3	23.1

Total Quantity of Water Removed (gal):	23.1 L	Sampling Time:	1458
Samplers:	LBL	Split Sample With:	FD-01
Sampling Date:	8/21/24	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Attachment B

Survey Data

Survey Report

Job name	Zip Zip
Creation date	13 Sep 2024
Version	Trimble Access 24.00
Distance Units	US survey feet
Angle units	Degrees
Pressure Units	inHg
Temperature Units	Fahrenheit

Coordinate system (Job)

System	United States/NAD83
Zone	New York Central 3102
Datum	NAD83(2011)

Projection

Projection	Transverse Mercator
Origin lat	40°00'00.00000"N
Origin long	76°35'00.00000"W
False northing	0.000
False easting	820208.333
Scale	0.99993750
South azimuth (grid)	No
Grid coords	Increase North-East
Ellipsoid	Semi-major axis: 20925604.474 Flattening: 298.25722210

Local site

Type	Grid

Datum transformation

Type	Three parameter
Semi-major axis	20925604.474
Flattening	298.257223
Translation X	0.000
Translation Y	0.000
Translation Z	0.000

Vertical adjustment

Geoid file	GEOID18 (Conus) Fixed

Collected Field Data (ECEF deltas: APC to APC)

Corrections

South azimuth (grid)	No
Grid coords	Increase North-East
Magnetic declination	0°00'00"
Distances	Ground

Neighborhood adjustment	Off

Projection

Projection	Scale factor only
Scale	1.00000000

Local site

Type	Grid

Datum transformation

Type	None

Corrections

South azimuth (grid)	No
Grid coords	Increase North-East
Magnetic declination	0°00'00"
Distances	Ground
Neighborhood adjustment	Off

Projection

Projection	Transverse Mercator
Origin lat	40°00'00.00000"N
Origin long	76°35'00.00000"W
False northing	0.000
False easting	820208.333
Scale	0.99993750
Ellipsoid	Semi-major axis: 20925604.474 Flattening: 298.25722210

Local site

Type	Grid

Datum transformation

Type	Three parameter
Semi-major axis	20925604.474
Flattening	298.257223
Translation X	0.000
Translation Y	0.000
Translation Z	0.000

Vertical adjustment

Geoid file	GEOID18 (Conus) Fixed

Coordinate system

System	United States/NAD83
Zone	New York Central 3102
Datum	NAD83(2011)

Rover options

Elevation mask	10	**PDOP mask**	6						

Rover options

Elevation mask	10	**PDOP mask**	6						

Rover options

Elevation mask	10	**PDOP mask**	6						

Rover options

Elevation mask	10	**PDOP mask**	6						

Survey event

Survey event	Rover started

Point (Global)	PRS939856173729	**Latitude**	43°07'07.74867"N	**Longitude**	76°08'29.77295"W	**Height**	323.464	**Code**	

GNSS receiver

Receiver type	Unknown
Serial number	
Firmware version	0
Antenna type	AdV Null Antenna
Measurement method	Antenna Phase Center
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.000

Base point

Point	PRS939856173729	**Antenna height**	0.000	**Type**	Corrected				

eBubble calibration status

Event	Start survey	**Calibration expires in**	33d 21h	**Calibration age limit**	41d 16h	**IMU sensor status**	Tilt calibrated OK

Initialization event: RTK initialized

GPS week	2332	**Seconds**	401111	**Initialization type**	On the fly	**Survey type**	Real-time		

GNSS receiver

Receiver type	R12i
Serial number	6243F00516
Firmware version	6.26
Antenna type	R12i Internal

Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.588

Point	MW-EA-10	**ΔX**	8261.185	**ΔY**	-15682.433	**ΔZ**	-18395.639	**Code**	
		Method	Network RTK	**Type**	Rapid point	**Search class**	Normal		
Antenna height	6.562	**Type**	Uncorrected	**Tilt distance**	0.008	**Hz Prec (DRMS)**	0.021	**Vt Prec (1 sigma)**	0.026
QC 1		**PDOP**	1.2	**GDOP**	1.8	**HDOP**	0.7	**VDOP**	1.0
		Base data age	2	**Satellites**	20	**Positions used**	1		
Point	MW-EA-09	**ΔX**	8215.019	**ΔY**	-15670.492	**ΔZ**	-18371.858	**Code**	
		Method	Network RTK	**Type**	Rapid point	**Search class**	Normal		
Antenna height	6.562	**Type**	Uncorrected	**Tilt distance**	0.018	**Hz Prec (DRMS)**	0.018	**Vt Prec (1 sigma)**	0.024
QC 1		**PDOP**	1.1	**GDOP**	1.7	**HDOP**	0.7	**VDOP**	0.9
		Base data age	2	**Satellites**	22	**Positions used**	1		

Survey event

Survey event	End survey

Rover options

Elevation mask	10	**PDOP mask**	6						

Point	G 110	**North**	1019053.460	**East**	948469.530	**Elevation**	1238.280	**Code**	Benchmark

Rover options

Elevation mask	10	**PDOP mask**	6						

Rover options

Elevation mask	10	**PDOP mask**	6						

Survey event

Survey event	Rover started

Point (Global)	PRS394538293274	**Latitude**	42°35'03.70726"N	**Longitude**	76°12'40.79269"W	**Height**	1085.585	**Code**	

GNSS receiver

Receiver type	Unknown
Serial number	
Firmware version	0
Antenna type	AdV Null Antenna

Measurement method	Antenna Phase Center
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.000

Base point

Point	PRS394538293274	**Antenna height**	0.000	**Type**	Corrected				

eBubble calibration status

Event	Start survey	**Calibration expires in**	33d 17h	**Calibration age limit**	41d 16h	**IMU sensor status**	Tilt calibrated OK

Initialization event: RTK initialized

GPS week	2332	**Seconds**	415581	**Initialization type**	On the fly	**Survey type**	Real-time		

GNSS receiver

Receiver type	R12i
Serial number	6243F00516
Firmware version	6.26
Antenna type	R12i Internal
Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.588

Point	Benchmark 1 G 110	**ΔX**	15147.494	**ΔY**	57531.212	**ΔZ**	56705.624	**Code**	G 110
		Method	Network RTK	**Type**	Rapid point	**Search class**	As-staked		
Antenna height	6.562	**Type**	Uncorrected	**Tilt distance**	0.021	**Hz Prec (DRMS)**	0.027	**Vt Prec (1 sigma)**	0.040
QC 1		**PDOP**	1.0	**GDOP**	1.4	**HDOP**	0.5	**VDOP**	0.8
		Base data age	2	**Satellites**	26	**Positions used**	1		

Stake out point (Benchmark 1 G 110)	Design point: G 110Code: Benchmark
Method	To the point

Stakeout	Deltas: Grid	**Δ North**	-0.045	**Δ East**	-0.026	**ΔElev**	-0.237		

Note	G 110 Benchmark for Zip Zip

Survey event

Survey event	End survey

Note	Exported file: /storage/emulated/0/Trimble Data/Projects/Syracuse/Zip Zip.csv
Note	Exported file: /storage/emulated/0/Trimble Data/Projects/Syracuse/Zip Zip.csv

Reduced points

Point	PRS939856173729	**North**	1136690.620	**East**	938145.646	**Elevation**	433.869	**Code**	
Point	MW-EA-10	**North**	1111527.669	**East**	942542.362	**Elevation**	426.408	**Code**	
Point	MW-EA-09	**North**	1111560.286	**East**	942500.230	**Elevation**	426.083	**Code**	
Point	G 110	**North**	1019053.460	**East**	948469.530	**Elevation**	1238.280	**Code**	Benchmark
Point	PRS394538293274	**North**	941820.417	**East**	920389.136	**Elevation**	1192.993	**Code**	
Point	Benchmark 1 G 110	**North**	1019053.505	**East**	948469.556	**Elevation**	1238.517	**Code**	G 110

Attachment C

Data Usability Summary Report
(Environmental Data Services, Inc.)

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
ZIP ZIP MINI MARKET, SYRACUSE, NEW YORK

Client:	EA Engineering, Science and Technology, Marlboro, New York
SDG:	24H3437
Laboratory:	Pace Analytical, East Longmeadow, Massachusetts
Site:	Zip Zip Mini Market, Syracuse, New York
Date:	September 27, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	B00075-MW-EA-9-082124	24H3437-01	Water
1MS	B00075-MW-EA-9-082124MS	24H3437-01MS	Water
1MSD	B00075-MW-EA-9-082124MSD	24H3437-01MSD	Water
2	B00075-MW-EA-1R-082124	24H3437-02	Water
3	B00075-MW-EA-4R-082124	24H3437-03	Water
4	B00075-MW-EA-6-082124	24H3437-04	Water
5	B00075-MW-FD-01-082124	24H3437-05	Water
6	B00075-TB-01-082224	24H3437-06	Water

A Data Usability Summary Review was performed on the analytical data for five water samples and one aqueous trip blank sample collected on August 21-22, 2024 by EA Engineering at the Zip Zip Mini Market site in Syracuse, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number QA-HWSS-A-004, March 2022, Standard Operating Procedure for Validation of Volatile Data;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries

- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
08/27/24 (0806)	tert-Amyl Alcohol	-36.5%	J/UJ	All Samples
	tert-Butyl Alcohol	-37.5%	J/UJ	
	4-Methyl-2-pentanone	23.6%	J	4

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
B00075-TB-01-082224	Acetone	83	U	1, 3, 4
	2-Butanone	10	U	2, 5
	tert-Butyl Alcohol	110	U	3
	tert-Butyl Ethyl Ether	0.62	None	Samples ND
	Ethanol	27	None	
	Toluene	0.24	U	4, 5

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
1	tert-Butyl Alcohol	69.1%/OK/OK	None - See CCAL
	Bromoform	OK/134%/OK	None - Sample ND
	Carbon Disulfide	131%/137%/OK	
	Chloromethane	135%/140%/OK	
	Diisopropyl Ether	OK/131%/OK	
	2-Hexanone	OK/131%/OK	
	4-Methyl-2-pentanone	OK/138%/OK	

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- The following table presents LCS/LCSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS/LCSD Sample	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
B384097-BS1	Tert-Amyl Alcohol	62.0%/62.5%/OK	None	See CCAL
	Methyl Acetate	132%/136%/OK	None	Samples ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision was unacceptable for several compounds in the field duplicate pair. These results were qualified estimated (J).

Compound	B00075-MW-EA-1R-082124 ug/L	B00075-MW-FD-01-082124 ug/L	RPD	Qualifier
tert-Amyl Alcohol	9.3	12	25%	None
Benzene	50	54	8%	
n-Butylbenzene	4.2	5.6	29%	

Compound	B00075-MW-EA-1R-082124 ug/L	B00075-MW-FD-01-082124 ug/L	RPD	Qualifier
sec-Butylbenzene	2.2	2.8	24%	None
Cyclohexane	6.2	8.3	29%	
Ethylbenzene	41	57	33%	J
Isopropylbenzene	6.5	8.8	30%	None
p-Isopropyltoluene	2.0	2.7	30%	
Methyl tert-Butyl Ether	0.29	0.31	7%	
Methyl Cyclohexane	7.6	9.7	24%	
Naphthalene	12	16	29%	
n-Propylbenzene	18	24	29%	
Toluene	2.7	3.8U	NC	
1,2,4-Trimethylbenzene	160	200	22%	
1,3,5-Trimethylbenzene	53	68	25%	
m&p-Xylene	100	140	33%	J
o-Xylene	7.4	9.0	20%	None
Xylenes, total	110	150	31%	J

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 10/11/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
ICV	Initial Calibration Verification
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-9-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-01	File ID:	E24V24009.D
Sampled:	08/21/24 11:01	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:05
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	3.2 U	2.0	50	U TB
75-85-4	tert-Amyl Alcohol (TAA)	UJ	1.3	5.0	~~V-05, L-04~~ CCV
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)	UJ	3.4	20	~~V-05~~ CCV
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

MW 9/27/24

1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-9-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-01	File ID:	E24V24009.D
Sampled:	08/21/24 11:01	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:05
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.52	0.17	1.0	J
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

MW
9/27/24

1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-9-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-01	File ID:	E24V24009.D
Sampled:	08/21/24 11:01	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:05
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MW 9/27/24

1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-1R-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-02	File ID:	E24V24010.D
Sampled:	08/21/24 14:58	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:30
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
				Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)		MDL	RL	Q
67-64-1	Acetone			2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)	9.3	J	1.3	5.0	~~L-04, V-05~~ CCV
919-94-8	tert-Amyl Ethyl Ether (TAEE)			0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)			0.15	0.50	
71-43-2	Benzene	50		0.14	1.0	
74-97-5	Bromochloromethane			0.32	1.0	
75-27-4	Bromodichloromethane			0.19	0.50	
75-25-2	Bromoform			0.30	1.0	
74-83-9	Bromomethane			1.5	2.0	
78-93-3	2-Butanone (MEK)	4.7	U	1.4	20	~~J~~ TB
75-65-0	tert-Butyl Alcohol (TBA)		UJ	3.4	20	~~V-05~~ CCV
104-51-8	n-Butylbenzene	4.2		0.16	1.0	
135-98-8	sec-Butylbenzene	2.2		0.16	1.0	
98-06-6	tert-Butylbenzene			0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)			0.16	0.50	
75-15-0	Carbon Disulfide			1.5	5.0	
56-23-5	Carbon Tetrachloride			0.19	5.0	
108-90-7	Chlorobenzene			0.18	1.0	
124-48-1	Chlorodibromomethane			0.13	0.50	
75-00-3	Chloroethane			0.46	2.0	
67-66-3	Chloroform			0.19	2.0	
74-87-3	Chloromethane			0.50	2.0	
110-82-7	Cyclohexane	6.2		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)			0.13	0.50	
95-50-1	1,2-Dichlorobenzene			0.17	1.0	
541-73-1	1,3-Dichlorobenzene			0.15	1.0	
106-46-7	1,4-Dichlorobenzene			0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)			0.20	2.0	
75-34-3	1,1-Dichloroethane			0.15	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

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B00075-MW-EA-1R-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-02	File ID:	E24V24010.D
Sampled:	08/21/24 14:58	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:30
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	
100-41-4	Ethylbenzene	41 J	0.14	1.0	FD
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)	6.5	0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	2.0	0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.29	0.17	1.0	J
108-87-2	Methyl Cyclohexane	7.6	0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene	12	0.25	2.0	
103-65-1	n-Propylbenzene	18	0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	2.7	0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-1R-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-02	File ID:	E24V24010.D
Sampled:	08/21/24 14:58	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:30
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)		MDL	RL	Q
96-18-4	1,2,3-Trichloropropane			0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1			0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene	160		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene	53		0.17	1.0	
75-01-4	Vinyl Chloride			0.19	2.0	
179601-23-1	m+p Xylene	100	J	0.25	2.0	FD
95-47-6	o-Xylene	7.4		0.16	1.0	
1330-20-7	Xylenes (total)	110	J	1.0	1.0	FD

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-4R-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-03	File ID:	E24V24011.D
Sampled:	08/21/24 13:22	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:56
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	2.7 U	2.0	50	U TB
75-85-4	tert-Amyl Alcohol (TAA)	10 J	1.3	5.0	~~L-04, V-05~~ CCV
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene	1.6	0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)	48 UJ	3.4	20	~~V-05~~ TB CCV
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-4R-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-03	File ID:	E24V24011.D
Sampled:	08/21/24 13:22	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:56
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
				Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	18	0.17	1.0	
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-4R-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-03	File ID:	E24V24011.D
Sampled:	08/21/24 13:22	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 11:56
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-6-082224

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-04	File ID:	E24V24012.D
Sampled:	08/22/24 08:40	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 12:21
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	20 U	2.0	50	+ TB
75-85-4	tert-Amyl Alcohol (TAA)	UJ	1.3	5.0	~~L-04, V-05~~ CCV
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene	0.25	0.14	1.0	J
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)	UJ	3.4	20	~~V-05~~ CCV
104-51-8	n-Butylbenzene	0.39	0.16	1.0	J
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-6-082224

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-04	File ID:	E24V24012.D
Sampled:	08/22/24 08:40	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 12:21
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	
100-41-4	Ethylbenzene	1.2	0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)	0.27	0.16	1.0	J
99-87-6	p-Isopropyltoluene (p-Cymene)	0.17	0.16	1.0	J
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane	1.6	0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.3 J	1.4	10	~~V-06,J~~ CCV
91-20-3	Naphthalene	1.0	0.25	2.0	J
103-65-1	n-Propylbenzene	0.57	0.11	1.0	J
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.40 u	0.11	1.0	✓ TB
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-EA-6-082224

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-04	File ID:	E24V24012.D
Sampled:	08/22/24 08:40	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 12:21
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene	5.3	0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene	3.8	0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene	3.9	0.25	2.0	
95-47-6	o-Xylene	1.5	0.16	1.0	
1330-20-7	Xylenes (total)	5.4	1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-FD-01-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-05	File ID:	E24V24013.D
Sampled:	08/21/24 00:00	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 12:46
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)	12 J	1.3	5.0	~~L-04, V-05~~ CCV
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene	54	0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)	4.7 U	1.4	20	~~J~~ TB
75-65-0	tert-Butyl Alcohol (TBA)	UJ	3.4	20	~~V-05~~ CCV
104-51-8	n-Butylbenzene	5.6	0.16	1.0	
135-98-8	sec-Butylbenzene	2.8	0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane	8.3	1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-FD-01-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-05	File ID:	E24V24013.D
Sampled:	08/21/24 00:00	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 12:46
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	
100-41-4	Ethylbenzene	57 J	0.14	1.0	FD
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)	8.8	0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	2.7	0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.31	0.17	1.0	J
108-87-2	Methyl Cyclohexane	9.7	0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene	16	0.25	2.0	
103-65-1	n-Propylbenzene	24	0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	3.8 U	0.11	1.0	TB
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-MW-FD-01-082124

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Ground Water	Laboratory ID:	24H3437-05	File ID:	E24V24013.D
Sampled:	08/21/24 00:00	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 12:46
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)		MDL	RL	Q
96-18-4	1,2,3-Trichloropropane			0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1			0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene	200		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene	68		0.17	1.0	
75-01-4	Vinyl Chloride			0.19	2.0	
179601-23-1	m+p Xylene	140	J	0.25	2.0	FD
95-47-6	o-Xylene	9.0		0.16	1.0	
1330-20-7	Xylenes (total)	150	J	1.0	1.0	FD

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1 - FORM I
ANALYSIS DATA SHEET

B00075-TB-01-082224

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Trip Blank Water	Laboratory ID:	24H3437-06	File ID:	E24V24007.D
Sampled:	08/22/24 14:00	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 10:14
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	83	2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)	UJ	1.3	5.0	~~L-04, V-05~~ CCV
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)	10	1.4	20	J
75-65-0	tert-Butyl Alcohol (TBA)	110 J	3.4	20	~~V-05~~ CCV
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)	0.62	0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-TB-01-082224

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Trip Blank Water	Laboratory ID:	24H3437-06	File ID:	E24V24007.D
Sampled:	08/22/24 14:00	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 10:14
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol	27	20	50	J
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.24	0.11	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

B00075-TB-01-082224

Laboratory:	Pace New England			Work Order:	24H3437
Client:	NYDEC_EA Engineering, Science &			Project:	Zip Zip Mini Market Site - CO 152101
Matrix:	Trip Blank Water	Laboratory ID:	24H3437-06	File ID:	E24V24007.D
Sampled:	08/22/24 14:00	Prepared:	08/26/24 12:29	Analyzed:	08/27/24 10:14
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B384097	Sequence:	S109580	Calibration:	2400193
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

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